



# Masters ABS Pro Oatey

Version No: 1.3

Safety Data Sheet according to WHMIS 2015 requirements

Issue Date: 11/25/2020

Print Date: 11/25/2020

S.GHS.CAN.EN

## SECTION 1 Identification

### Product Identifier

|                               |                                       |
|-------------------------------|---------------------------------------|
| Product name                  | Masters ABS Pro                       |
| Chemical Name                 | Not Applicable                        |
| Synonyms                      | Not Available                         |
| Proper shipping name          | ADHESIVES containing flammable liquid |
| Other means of identification | ABS250-1, ABS500-1, ABS1L-1, ABS4L-1  |

### Recommended use of the chemical and restrictions on use

|                          |                   |
|--------------------------|-------------------|
| Relevant identified uses | Joining ABS Pipes |
|--------------------------|-------------------|

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

|                         |                                                 |
|-------------------------|-------------------------------------------------|
| Registered company name | Oatey                                           |
| Address                 | 620 Steven Court, New Market, ON L3Y 622 Canada |
| Telephone               | 905-898-2557                                    |
| Fax                     | Not Available                                   |
| Website                 | Not Available                                   |
| Email                   | info@oatey.com                                  |

### Emergency phone number

|                                   |                                                |
|-----------------------------------|------------------------------------------------|
| Association / Organisation        | ChemTrec                                       |
| Emergency telephone numbers       | 1-800-424-9300 (Outside the US 1-703-527-3887) |
| Other emergency telephone numbers | Emergency First Aid: 1-877-740-5015            |

## SECTION 2 Hazard(s) identification

### Classification of the substance or mixture

|                |                                                                                                                                                                                                                                                                   |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Classification | Eye Irritation Category 2A, Specific target organ toxicity - single exposure Category 3 (narcotic effects), Flammable Liquid Category 2, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Aspiration Hazard Category 1 |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Label elements

|                     |        |
|---------------------|--------|
| Hazard pictogram(s) |        |
| Signal word         | Danger |

## Masters ABS Pro

## Hazard statement(s)

|      |                                               |
|------|-----------------------------------------------|
| H319 | Causes serious eye irritation.                |
| H336 | May cause drowsiness or dizziness.            |
| H225 | Highly flammable liquid and vapour.           |
| H335 | May cause respiratory irritation.             |
| H304 | May be fatal if swallowed and enters airways. |

## Health hazard(s) not otherwise classified

Repeated exposure may cause skin dryness or cracking.

## Precautionary statement(s) Prevention

|      |                                                                                                |
|------|------------------------------------------------------------------------------------------------|
| P264 | Wash thoroughly after handling.                                                                |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P271 | Use only outdoors or in a well-ventilated area.                                                |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection.                     |
| P240 | Ground and bond container and receiving equipment.                                             |
| P241 | Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.              |
| P242 | Use non-sparking tools.                                                                        |
| P243 | Take action to prevent static discharges.                                                      |
| P261 | Avoid breathing mist/vapours/spray.                                                            |

## Precautionary statement(s) Response

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P301+P310      | IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.                                                     |
| P331           | Do NOT induce vomiting.                                                                                                          |
| P370+P378      | In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.                                                |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312           | Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.                                                            |
| P337+P313      | If eye irritation persists: Get medical advice/attention.                                                                        |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].                         |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |

## Precautionary statement(s) Storage

|            |                                                                   |
|------------|-------------------------------------------------------------------|
| P403+P235  | Store in a well-ventilated place. Keep cool.                      |
| P405       | Store locked up.                                                  |
| P403+PP233 | Store in a well-ventilated places. Keep container tightly closed. |

## Precautionary statement(s) Disposal

|      |                                                                                                                                  |
|------|----------------------------------------------------------------------------------------------------------------------------------|
| P501 | Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation. |
|------|----------------------------------------------------------------------------------------------------------------------------------|

## SECTION 3 Composition / information on ingredients

## Substances

See section below for composition of Mixtures

## Mixtures

| CAS No     | %[weight] | Name                                               |
|------------|-----------|----------------------------------------------------|
| 9003-56-9* | 15-25     | <u>styrene/ butadiene/ acrylonitrile copolymer</u> |
| 78-93-3    | 40-60     | <u>methyl ethyl ketone</u>                         |
| 108-94-1*  | 10-30     | <u>cyclohexanone</u>                               |
| 67-64-1    | 5-15      | <u>acetone</u>                                     |

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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## SECTION 4 First-aid measures

## Description of first aid measures

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Contact</b>  | <p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> <li>▶ Wash out immediately with fresh running water.</li> <li>▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>▶ Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>                                      |
| <b>Skin Contact</b> | <p>If skin contact occurs:</p> <ul style="list-style-type: none"> <li>▶ Immediately remove all contaminated clothing, including footwear.</li> <li>▶ Flush skin and hair with running water (and soap if available).</li> <li>▶ Seek medical attention in event of irritation.</li> </ul>                                                                                                                                                                                                                                                                                        |
| <b>Inhalation</b>   | <ul style="list-style-type: none"> <li>▶ If fumes or combustion products are inhaled remove from contaminated area.</li> <li>▶ Lay patient down. Keep warm and rested.</li> <li>▶ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>▶ Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>▶ Transport to hospital, or doctor, without delay.</li> </ul> |
| <b>Ingestion</b>    | <ul style="list-style-type: none"> <li>▶ Immediately give a glass of water.</li> <li>▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> <li>▶ If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.</li> </ul>                                                                                                                                                                                                               |

## Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

## SECTION 5 Fire-fighting measures

## Extinguishing media

- ▶ Alcohol stable foam.
- ▶ Dry chemical powder.
- ▶ BCF (where regulations permit).
- ▶ Carbon dioxide.
- ▶ Water spray or fog - Large fires only.

## Special hazards arising from the substrate or mixture

|                             |                                                                                                                                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fire Incompatibility</b> | <ul style="list-style-type: none"> <li>▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result</li> </ul> |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Special protective equipment and precautions for fire-fighters

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fire Fighting</b>         | <ul style="list-style-type: none"> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ May be violently or explosively reactive.</li> <li>▶ Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water course.</li> <li>▶ Consider evacuation (or protect in place).</li> <li>▶ Fight fire from a safe distance, with adequate cover.</li> <li>▶ If safe, switch off electrical equipment until vapour fire hazard removed.</li> <li>▶ Use water delivered as a fine spray to control the fire and cool adjacent area.</li> <li>▶ Avoid spraying water onto liquid pools.</li> <li>▶ <b>Do not</b> approach containers suspected to be hot.</li> <li>▶ Cool fire exposed containers with water spray from a protected location.</li> <li>▶ If safe to do so, remove containers from path of fire.</li> </ul> |
| <b>Fire/Explosion Hazard</b> | <ul style="list-style-type: none"> <li>▶ Liquid and vapour are highly flammable.</li> <li>▶ Severe fire hazard when exposed to heat, flame and/or oxidisers.</li> <li>▶ Vapour may travel a considerable distance to source of ignition.</li> <li>▶ Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>▶ On combustion, may emit toxic fumes of carbon monoxide (CO).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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Combustion products include:  
carbon dioxide (CO<sub>2</sub>)  
other pyrolysis products typical of burning organic material.

### SECTION 6 Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

See section 8

#### Environmental precautions

See section 12

#### Methods and material for containment and cleaning up

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Minor Spills</b> | <ul style="list-style-type: none"> <li>‣ Remove all ignition sources.</li> <li>‣ Clean up all spills immediately.</li> <li>‣ Avoid breathing vapours and contact with skin and eyes.</li> <li>‣ Control personal contact with the substance, by using protective equipment.</li> <li>‣ Contain and absorb small quantities with vermiculite or other absorbent material.</li> <li>‣ Wipe up.</li> <li>‣ Collect residues in a flammable waste container.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Major Spills</b> | <ul style="list-style-type: none"> <li>‣ Clear area of personnel and move upwind.</li> <li>‣ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>‣ May be violently or explosively reactive.</li> <li>‣ Wear breathing apparatus plus protective gloves.</li> <li>‣ Prevent, by any means available, spillage from entering drains or water course.</li> <li>‣ Consider evacuation (or protect in place).</li> <li>‣ No smoking, naked lights or ignition sources.</li> <li>‣ Increase ventilation.</li> <li>‣ Stop leak if safe to do so.</li> <li>‣ Water spray or fog may be used to disperse /absorb vapour.</li> <li>‣ Contain spill with sand, earth or vermiculite.</li> <li>‣ Use only spark-free shovels and explosion proof equipment.</li> <li>‣ Collect recoverable product into labelled containers for recycling.</li> <li>‣ Absorb remaining product with sand, earth or vermiculite.</li> <li>‣ Collect solid residues and seal in labelled drums for disposal.</li> <li>‣ Wash area and prevent runoff into drains.</li> <li>‣ If contamination of drains or waterways occurs, advise emergency services.</li> </ul> |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### SECTION 7 Handling and storage

#### Precautions for safe handling

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Safe handling</b> | <ul style="list-style-type: none"> <li>‣ Containers, even those that have been emptied, may contain explosive vapours.</li> <li>‣ Do NOT cut, drill, grind, weld or perform similar operations on or near containers.</li> <li>‣ Avoid all personal contact, including inhalation.</li> <li>‣ Wear protective clothing when risk of exposure occurs.</li> <li>‣ Use in a well-ventilated area.</li> <li>‣ Prevent concentration in hollows and sumps.</li> <li>‣ <b>DO NOT</b> enter confined spaces until atmosphere has been checked.</li> <li>‣ Avoid smoking, naked lights, heat or ignition sources.</li> <li>‣ When handling, <b>DO NOT</b> eat, drink or smoke.</li> <li>‣ Vapour may ignite on pumping or pouring due to static electricity.</li> <li>‣ <b>DO NOT</b> use plastic buckets.</li> <li>‣ Earth and secure metal containers when dispensing or pouring product.</li> <li>‣ Use spark-free tools when handling.</li> <li>‣ Avoid contact with incompatible materials.</li> <li>‣ Keep containers securely sealed.</li> <li>‣ Avoid physical damage to containers.</li> <li>‣ Always wash hands with soap and water after handling.</li> <li>‣ Work clothes should be laundered separately.</li> <li>‣ Use good occupational work practice.</li> <li>‣ Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>‣ Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.</li> <li>‣ <b>DO NOT</b> allow clothing wet with material to stay in contact with skin</li> </ul> |
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|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Other information</b> | <ul style="list-style-type: none"> <li>▶ Store in original containers in approved flame-proof area.</li> <li>▶ No smoking, naked lights, heat or ignition sources.</li> <li>▶ <b>DO NOT</b> store in pits, depressions, basements or areas where vapours may be trapped.</li> <li>▶ Keep containers securely sealed.</li> <li>▶ Store away from incompatible materials in a cool, dry well ventilated area.</li> <li>▶ Protect containers against physical damage and check regularly for leaks.</li> <li>▶ Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul> |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Conditions for safe storage, including any incompatibilities**

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable container</b>      | <ul style="list-style-type: none"> <li>▶ Packing as supplied by manufacturer.</li> <li>▶ Plastic containers may only be used if approved for flammable liquid.</li> <li>▶ Check that containers are clearly labelled and free from leaks.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage incompatibility</b> | <p>Methyl ethyl ketone:</p> <ul style="list-style-type: none"> <li>▶ reacts violently with strong oxidisers, aldehydes, nitric acid, perchloric acid, potassium tert-butoxide, oleum</li> <li>▶ is incompatible with inorganic acids, aliphatic amines, ammonia, caustics, isocyanates, pyridines, chlorosulfonic acid</li> <li>▶ forms unstable peroxides in storage, or on contact with propanol or hydrogen peroxide</li> <li>▶ attacks some plastics</li> <li>▶ may generate electrostatic charges, due to low conductivity, on flow or agitation</li> </ul> <p>Ketones in this group:</p> <ul style="list-style-type: none"> <li>▶ are reactive with many acids and bases liberating heat and flammable gases (e.g., H<sub>2</sub>).</li> <li>▶ react with reducing agents such as hydrides, alkali metals, and nitrides to produce flammable gas (H<sub>2</sub>) and heat.</li> <li>▶ are incompatible with isocyanates, aldehydes, cyanides, peroxides, and anhydrides.</li> <li>▶ react violently with aldehydes, HNO<sub>3</sub> (nitric acid), HNO<sub>3</sub> + H<sub>2</sub>O<sub>2</sub> (mixture of nitric acid and hydrogen peroxide), and HClO<sub>4</sub> (perchloric acid).</li> <li>▶ may react with hydrogen peroxide to form unstable peroxides; many are heat- and shock-sensitive explosives.</li> </ul> <p>A significant property of most ketones is that the hydrogen atoms on the carbons next to the carbonyl group are relatively acidic when compared to hydrogen atoms in typical hydrocarbons. Under strongly basic conditions these hydrogen atoms may be abstracted to form an enolate anion. This property allows ketones, especially methyl ketones, to participate in condensation reactions with other ketones and aldehydes. This type of condensation reaction is favoured by high substrate concentrations and high pH (greater than 1 wt% NaOH).</p> <ul style="list-style-type: none"> <li>▶ Avoid strong bases.</li> <li>▶ Avoid reaction with oxidising agents</li> </ul> |

**SECTION 8 Exposure controls / personal protection****Control parameters****Occupational Exposure Limits (OEL)****INGREDIENT DATA**

| Source                                                                                  | Ingredient                                  | Material name                                                           | TWA                             | STEL                            | Peak          | Notes                                                                                                                                                    |
|-----------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------|---------------------------------|---------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Canada - British Columbia Occupational Exposure Limits                                  | styrene/ butadiene/ acrylonitrile copolymer | Particles (Insoluble or Poorly Soluble) Not Otherwise Classified (PNOC) | 10 mg/m <sup>3</sup>            | Not Available                   | Not Available | (N) - the 8-hour TWA listed in the Table is for the total dust. The substance also has an 8-hour TWA of 3 mg/m <sup>3</sup> for the respirable fraction. |
| Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances           | methyl ethyl ketone                         | 2-Butanone                                                              | 200 ppm / 590 mg/m <sup>3</sup> | 740 mg/m <sup>3</sup> / 250 ppm | Not Available | Not Available                                                                                                                                            |
| Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances           | methyl ethyl ketone                         | Methyl ethyl ketone (MEK), see 2-Butanone                               | 200 ppm / 590 mg/m <sup>3</sup> | 740 mg/m <sup>3</sup> / 250 ppm | Not Available | Not Available                                                                                                                                            |
| Canada - Nova Scotia Occupational Exposure Limits                                       | methyl ethyl ketone                         | Methyl ethyl ketone [MEK]                                               | 200 ppm                         | 300 ppm                         | Not Available | TLV Basis: upper respiratory tract irritation; central & peripheral nervous systems impairment. BEI                                                      |
| Canada - Alberta Occupational Exposure Limits                                           | methyl ethyl ketone                         | Methyl ethyl ketone (MEK; 2-Butanone)                                   | 200 ppm / 590 mg/m <sup>3</sup> | 885 mg/m <sup>3</sup> / 300 ppm | Not Available | Not Available                                                                                                                                            |
| Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits | methyl ethyl ketone                         | Methyl ethyl ketone (MEK)                                               | 200 ppm                         | 300 ppm                         | Not Available | Not Available                                                                                                                                            |

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| Source                                                                                  | Ingredient          | Material name             | TWA                     | STEL                    | Peak          | Notes                                                                                    |
|-----------------------------------------------------------------------------------------|---------------------|---------------------------|-------------------------|-------------------------|---------------|------------------------------------------------------------------------------------------|
| Canada - Manitoba Occupational Exposure Limits                                          | methyl ethyl ketone | Not Available             | 200 ppm                 | 300 ppm                 | Not Available | TLV® Basis: URT irr; CNS & PNS impair; BEI                                               |
| Canada - British Columbia Occupational Exposure Limits                                  | methyl ethyl ketone | Methyl ethyl ketone (MEK) | 50 ppm                  | 100 ppm                 | Not Available | Not Available                                                                            |
| Canada - Prince Edward Island Occupational Exposure Limits                              | methyl ethyl ketone | Methyl ethyl ketone       | 200 ppm                 | 300 ppm                 | Not Available | TLV® Basis: URT irr; CNS & PNS impair; BEI                                               |
| Canada - Northwest Territories Occupational Exposure Limits                             | methyl ethyl ketone | Methyl ethyl ketone (MEK) | 200 ppm                 | 300 ppm                 | Not Available | Not Available                                                                            |
| Canada - Quebec Permissible Exposure Values for Airborne Contaminants                   | methyl ethyl ketone | Methyl ethyl ketone (MEK) | 50 ppm / 150 mg/m3      | 300 mg/m3 / 100 ppm     | Not Available | Not Available                                                                            |
| Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances           | cyclohexanone       | Cyclohexanone             | 50 ppm / 200 mg/m3      | 200 mg/m3 / 50 ppm      | Not Available | Not Available                                                                            |
| Canada - Nova Scotia Occupational Exposure Limits                                       | cyclohexanone       | Cyclohexanone             | 20 ppm                  | 50 ppm                  | Not Available | TLV Basis: eye & upper respiratory tract irritation                                      |
| Canada - Alberta Occupational Exposure Limits                                           | cyclohexanone       | Cyclohexanone             | 20 ppm / 80 mg/m3       | 200 mg/m3 / 50 ppm      | Not Available | Not Available                                                                            |
| Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits | cyclohexanone       | Cyclohexanone             | 20 ppm                  | 50 ppm                  | Not Available | Skin                                                                                     |
| Canada - Manitoba Occupational Exposure Limits                                          | cyclohexanone       | Not Available             | 20 ppm                  | 50 ppm                  | Not Available | TLV® Basis: Eye & URT irr                                                                |
| Canada - British Columbia Occupational Exposure Limits                                  | cyclohexanone       | Cyclohexanone             | 20 ppm                  | 50 ppm                  | Not Available | Not Available                                                                            |
| Canada - Prince Edward Island Occupational Exposure Limits                              | cyclohexanone       | Cyclohexanone             | 20 ppm                  | 50 ppm                  | Not Available | TLV® Basis: Eye & URT irr                                                                |
| Canada - Northwest Territories Occupational Exposure Limits                             | cyclohexanone       | Cyclohexanone             | 20 ppm                  | 50 ppm                  | Not Available | Skin                                                                                     |
| Canada - Quebec Permissible Exposure Values for Airborne Contaminants                   | cyclohexanone       | Cyclohexanone             | 25 ppm / 100 mg/m3      | Not Available           | Not Available | Not Available                                                                            |
| Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances           | acetone             | Acetone                   | 1,000 ppm / 2,400 mg/m3 | 3,000 mg/m3 / 1,250 ppm | Not Available | Not Available                                                                            |
| Canada - Nova Scotia Occupational Exposure Limits                                       | acetone             | Acetone                   | 500 ppm                 | 750 ppm                 | Not Available | TLV Basis: Upper respiratory tract & eye irritation; CNS impairment; hematologic effects |
| Canada - Alberta Occupational Exposure Limits                                           | acetone             | Acetone                   | 500 ppm / 1200 mg/m3    | 1800 mg/m3 / 750 ppm    | Not Available | Not Available                                                                            |
| Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits | acetone             | Acetone                   | 500 ppm                 | 750 ppm                 | Not Available | Not Available                                                                            |
| Canada - Manitoba Occupational Exposure Limits                                          | acetone             | Not Available             | 250 ppm                 | 500 ppm                 | Not Available | TLV® Basis: URT & eye irr; CNS impair; BEI                                               |
| Canada - British Columbia Occupational Exposure Limits                                  | acetone             | Acetone                   | 250 ppm                 | 500 ppm                 | Not Available | Not Available                                                                            |

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| Source                                                                | Ingredient | Material name | TWA                  | STEL                  | Peak          | Notes                                      |
|-----------------------------------------------------------------------|------------|---------------|----------------------|-----------------------|---------------|--------------------------------------------|
| Canada - Prince Edward Island Occupational Exposure Limits            | acetone    | Acetone       | 250 ppm              | 500 ppm               | Not Available | TLV® Basis: URT & eye irr; CNS impair; BEI |
| Canada - Northwest Territories Occupational Exposure Limits           | acetone    | Acetone       | 500 ppm              | 750 ppm               | Not Available | Not Available                              |
| Canada - Quebec Permissible Exposure Values for Airborne Contaminants | acetone    | Acetone       | 500 ppm / 1190 mg/m3 | 2380 mg/m3 / 1000 ppm | Not Available | Not Available                              |

## Exposure controls

| Appropriate engineering controls                                                                                                                                                                                    | <p>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.</p> <p>The basic types of engineering controls are:</p> <p>Process controls which involve changing the way a job activity or process is done to reduce the risk.</p> <p>Enclosure and/or isolation of emission source which keeps a selected hazard 'physically' away from the worker and ventilation that strategically 'adds' and 'removes' air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.</p> <p>Employers may need to use multiple types of controls to prevent employee overexposure.</p> <p>For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion-resistant.</p> <p>Air contaminants generated in the workplace possess varying 'escape' velocities which, in turn, determine the 'capture velocities' of fresh circulating air required to effectively remove the contaminant.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |            |                                                                          |                              |                                                                                                                                                                                                                     |                            |                                                                                                                                                                |                            |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |
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|                                                                                                                                                                                                                     | <table border="1"> <thead> <tr> <th>Type of Contaminant:</th> <th>Air Speed:</th> </tr> </thead> <tbody> <tr> <td>solvent, vapours, degreasing etc., evaporating from tank (in still air).</td> <td>0.25-0.5 m/s (50-100 f/min.)</td> </tr> <tr> <td>aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)</td> <td>0.5-1 m/s (100-200 f/min.)</td> </tr> <tr> <td>direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)</td> <td>1-2.5 m/s (200-500 f/min.)</td> </tr> </tbody> </table> <p>Within each range the appropriate value depends on:</p> <table border="1"> <thead> <tr> <th>Lower end of the range</th> <th>Upper end of the range</th> </tr> </thead> <tbody> <tr> <td>1: Room air currents minimal or favourable to capture</td> <td>1: Disturbing room air currents</td> </tr> <tr> <td>2: Contaminants of low toxicity or of nuisance value only.</td> <td>2: Contaminants of high toxicity</td> </tr> <tr> <td>3: Intermittent, low production.</td> <td>3: High production, heavy use</td> </tr> <tr> <td>4: Large hood or large air mass in motion</td> <td>4: Small hood-local control only</td> </tr> </tbody> </table> <p>Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.</p> | Type of Contaminant: | Air Speed: | solvent, vapours, degreasing etc., evaporating from tank (in still air). | 0.25-0.5 m/s (50-100 f/min.) | aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) | 0.5-1 m/s (100-200 f/min.) | direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion) | 1-2.5 m/s (200-500 f/min.) | Lower end of the range | Upper end of the range | 1: Room air currents minimal or favourable to capture | 1: Disturbing room air currents | 2: Contaminants of low toxicity or of nuisance value only. | 2: Contaminants of high toxicity | 3: Intermittent, low production. | 3: High production, heavy use | 4: Large hood or large air mass in motion |
| Type of Contaminant:                                                                                                                                                                                                | Air Speed:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |            |                                                                          |                              |                                                                                                                                                                                                                     |                            |                                                                                                                                                                |                            |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |
| solvent, vapours, degreasing etc., evaporating from tank (in still air).                                                                                                                                            | 0.25-0.5 m/s (50-100 f/min.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |            |                                                                          |                              |                                                                                                                                                                                                                     |                            |                                                                                                                                                                |                            |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |
| aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) | 0.5-1 m/s (100-200 f/min.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |            |                                                                          |                              |                                                                                                                                                                                                                     |                            |                                                                                                                                                                |                            |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |
| direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)                                                      | 1-2.5 m/s (200-500 f/min.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |            |                                                                          |                              |                                                                                                                                                                                                                     |                            |                                                                                                                                                                |                            |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |
| Lower end of the range                                                                                                                                                                                              | Upper end of the range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |            |                                                                          |                              |                                                                                                                                                                                                                     |                            |                                                                                                                                                                |                            |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |
| 1: Room air currents minimal or favourable to capture                                                                                                                                                               | 1: Disturbing room air currents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                      |            |                                                                          |                              |                                                                                                                                                                                                                     |                            |                                                                                                                                                                |                            |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |
| 2: Contaminants of low toxicity or of nuisance value only.                                                                                                                                                          | 2: Contaminants of high toxicity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                      |            |                                                                          |                              |                                                                                                                                                                                                                     |                            |                                                                                                                                                                |                            |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |
| 3: Intermittent, low production.                                                                                                                                                                                    | 3: High production, heavy use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |            |                                                                          |                              |                                                                                                                                                                                                                     |                            |                                                                                                                                                                |                            |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |
| 4: Large hood or large air mass in motion                                                                                                                                                                           | 4: Small hood-local control only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                      |            |                                                                          |                              |                                                                                                                                                                                                                     |                            |                                                                                                                                                                |                            |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |
| Personal protection                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      |            |                                                                          |                              |                                                                                                                                                                                                                     |                            |                                                                                                                                                                |                            |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |
| Eye and face protection                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>▶ Safety glasses with side shields.</li> <li>▶ Chemical goggles.</li> <li>▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |            |                                                                          |                              |                                                                                                                                                                                                                     |                            |                                                                                                                                                                |                            |                        |                        |                                                       |                                 |                                                            |                                  |                                  |                               |                                           |

## Masters ABS Pro

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              | have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Skin protection</b>       | See Hand protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Hands/feet protection</b> | <ul style="list-style-type: none"> <li>▸ Wear chemical protective gloves, e.g. PVC.</li> <li>▸ Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Body protection</b>       | See Other protection below                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Other protection</b>      | <ul style="list-style-type: none"> <li>▸ Overalls.</li> <li>▸ PVC Apron.</li> <li>▸ PVC protective suit may be required if exposure severe.</li> <li>▸ Eyewash unit.</li> <li>▸ Ensure there is ready access to a safety shower.</li> <li>▸ Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.</li> <li>▸ For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets).</li> <li>▸ Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot and shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds. Electrical resistance must range between 0 to 500,000 ohms. Conductive shoes should be stored in lockers close to the room in which they are worn. Personnel who have been issued conductive footwear should not wear them from their place of work to their homes and return.</li> </ul> |

## Respiratory protection

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

## SECTION 9 Physical and chemical properties

## Information on basic physical and chemical properties

|                                                     |                    |                                                |               |
|-----------------------------------------------------|--------------------|------------------------------------------------|---------------|
| <b>Appearance</b>                                   | Translucent yellow |                                                |               |
| <b>Physical state</b>                               | Liquid             | <b>Relative density (Water = 1)</b>            | 0.88          |
| <b>Odour</b>                                        | Not Available      | <b>Partition coefficient n-octanol / water</b> | Not Available |
| <b>Odour threshold</b>                              | Not Available      | <b>Auto-ignition temperature (°C)</b>          | Not Available |
| <b>pH (as supplied)</b>                             | Not Available      | <b>Decomposition temperature</b>               | Not Available |
| <b>Melting point / freezing point (°C)</b>          | Not Available      | <b>Viscosity (cps)</b>                         | 500 - 1000    |
| <b>Initial boiling point and boiling range (°C)</b> | 66                 | <b>Molecular weight (g/mol)</b>                | Not Available |
| <b>Flash point (°C)</b>                             | -10 - -5           | <b>Taste</b>                                   | Not Available |
| <b>Evaporation rate</b>                             | Not Available      | <b>Explosive properties</b>                    | Not Available |
| <b>Flammability</b>                                 | HIGHLY FLAMMABLE.  | <b>Oxidising properties</b>                    | Not Available |
| <b>Upper Explosive Limit (%)</b>                    | Not Available      | <b>Surface Tension (dyn/cm or mN/m)</b>        | Not Available |
| <b>Lower Explosive Limit (%)</b>                    | Not Available      | <b>Volatile Component (%vol)</b>               | Not Available |
| <b>Vapour pressure (kPa)</b>                        | 19.33              | <b>Gas group</b>                               | Not Available |
| <b>Solubility in water</b>                          | Immiscible         | <b>pH as a solution (1%)</b>                   | Not Available |
| <b>Vapour density (Air = 1)</b>                     | 2.5                | <b>VOC g/L</b>                                 | Not Available |

## SECTION 10 Stability and reactivity



## Masters ABS Pro

|                                           |                                                                                                                                                                                                      |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | Not reactive under normal conditions of use.                                                                                                                                                         |
| <b>Chemical stability</b>                 | <ul style="list-style-type: none"> <li>▶ Unstable in the presence of incompatible materials.</li> <li>▶ Product is considered stable.</li> <li>▶ Hazardous polymerisation will not occur.</li> </ul> |
| <b>Possibility of hazardous reactions</b> | See section 7                                                                                                                                                                                        |
| <b>Conditions to avoid</b>                | Avoid heat, sparks, open flames and other ignition sources.<br>Avoid temperatures exceeding the flash point.<br>Contact with incompatible materials.                                                 |
| <b>Incompatible materials</b>             | See section 7                                                                                                                                                                                        |
| <b>Hazardous decomposition products</b>   | See section 5                                                                                                                                                                                        |

## SECTION 11 Toxicological information

## Information on toxicological effects

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhaled</b>      | <p>The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.</p> <p>Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.</p> <p>The material has <b>NOT</b> been classified as 'harmful by inhalation'. This is because of the lack of corroborating animal or human evidence.</p>                                              |
| <b>Ingestion</b>    | <p>Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733)</p> <p>The material has <b>NOT</b> been classified as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.</p>                                                                                                                                                                                                                    |
| <b>Skin Contact</b> | <p>The material may accentuate any pre-existing dermatitis condition</p> <p>Skin contact is not thought to have harmful health effects; the material may still produce health damage following entry through wounds, lesions or abrasions.</p> <p>There is some evidence to suggest that the material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.</p> |
| <b>Eye</b>          | <p>This material can cause eye irritation and damage in some persons.</p> <p>The vapour when concentrated has pronounced eye irritation effects and this gives some warning of high vapour concentrations. If eye irritation occurs seek to reduce exposure with available control measures, or evacuate area.</p>                                                                                                                                                                                                              |
| <b>Chronic</b>      | <p>Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems.</p> <p>Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following.</p>                                                                                                                                                                                                                                                       |

|                        |                 |                   |
|------------------------|-----------------|-------------------|
| <b>Masters ABS Pro</b> | <b>TOXICITY</b> | <b>IRRITATION</b> |
|                        | Not Available   | Not Available     |
|                        |                 |                   |
|                        |                 |                   |
|                        |                 |                   |

|                                          |   |                                 |   |
|------------------------------------------|---|---------------------------------|---|
| <b>Acute Toxicity</b>                    | ✗ | <b>Carcinogenicity</b>          | ✗ |
| <b>Skin Irritation/Corrosion</b>         | ✗ | <b>Reproductivity</b>           | ✗ |
| <b>Serious Eye Damage/Irritation</b>     | ✓ | <b>STOT - Single Exposure</b>   | ✓ |
| <b>Respiratory or Skin sensitisation</b> | ✗ | <b>STOT - Repeated Exposure</b> | ✗ |
| <b>Mutagenicity</b>                      | ✗ | <b>Aspiration Hazard</b>        | ✓ |

Continued...

## Masters ABS Pro

## SECTION 12 Ecological information

## Toxicity

|                                             |                                                                                                                                                                                                                                                                                                                                                                                           |                           |                               |               |               |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------|---------------|---------------|
| Masters ABS Pro                             | <b>Endpoint</b>                                                                                                                                                                                                                                                                                                                                                                           | <b>Test Duration (hr)</b> | <b>Species</b>                | <b>Value</b>  | <b>Source</b> |
|                                             | Not Available                                                                                                                                                                                                                                                                                                                                                                             | Not Available             | Not Available                 | Not Available | Not Available |
| styrene/ butadiene/ acrylonitrile copolymer | <b>Endpoint</b>                                                                                                                                                                                                                                                                                                                                                                           | <b>Test Duration (hr)</b> | <b>Species</b>                | <b>Value</b>  | <b>Source</b> |
|                                             | Not Available                                                                                                                                                                                                                                                                                                                                                                             | Not Available             | Not Available                 | Not Available | Not Available |
| methyl ethyl ketone                         | <b>Endpoint</b>                                                                                                                                                                                                                                                                                                                                                                           | <b>Test Duration (hr)</b> | <b>Species</b>                | <b>Value</b>  | <b>Source</b> |
|                                             | LC50                                                                                                                                                                                                                                                                                                                                                                                      | 96                        | Fish                          | 2-993mg/L     | 2             |
|                                             | EC50                                                                                                                                                                                                                                                                                                                                                                                      | 48                        | Crustacea                     | 5-91mg/L      | 2             |
|                                             | EC50                                                                                                                                                                                                                                                                                                                                                                                      | 72                        | Algae or other aquatic plants | 1-972mg/L     | 2             |
|                                             | EC0                                                                                                                                                                                                                                                                                                                                                                                       | 96                        | Fish                          | 1-848mg/L     | 2             |
|                                             | NOEC                                                                                                                                                                                                                                                                                                                                                                                      | 96                        | Fish                          | 1-170mg/L     | 2             |
| cyclohexanone                               | <b>Endpoint</b>                                                                                                                                                                                                                                                                                                                                                                           | <b>Test Duration (hr)</b> | <b>Species</b>                | <b>Value</b>  | <b>Source</b> |
|                                             | EC50                                                                                                                                                                                                                                                                                                                                                                                      | 48                        | Crustacea                     | >100mg/L      | 2             |
|                                             | EC50                                                                                                                                                                                                                                                                                                                                                                                      | 72                        | Algae or other aquatic plants | 32.9mg/L      | 5             |
|                                             | NOEC                                                                                                                                                                                                                                                                                                                                                                                      | 24                        | Fish                          | ca.5mg/L      | 1             |
| acetone                                     | <b>Endpoint</b>                                                                                                                                                                                                                                                                                                                                                                           | <b>Test Duration (hr)</b> | <b>Species</b>                | <b>Value</b>  | <b>Source</b> |
|                                             | LC50                                                                                                                                                                                                                                                                                                                                                                                      | 96                        | Fish                          | 5-540mg/L     | 2             |
|                                             | EC50                                                                                                                                                                                                                                                                                                                                                                                      | 48                        | Crustacea                     | 6098.4mg/L    | 5             |
|                                             | NOEC                                                                                                                                                                                                                                                                                                                                                                                      | 240                       | Crustacea                     | 1-866mg/L     | 2             |
| <b>Legend:</b>                              | Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data |                           |                               |               |               |

DO NOT discharge into sewer or waterways.

## Persistence and degradability

| Ingredient          | Persistence: Water/Soil   | Persistence: Air                 |
|---------------------|---------------------------|----------------------------------|
| methyl ethyl ketone | LOW (Half-life = 14 days) | LOW (Half-life = 26.75 days)     |
| cyclohexanone       | LOW                       | LOW                              |
| acetone             | LOW (Half-life = 14 days) | MEDIUM (Half-life = 116.25 days) |

## Bioaccumulative potential

| Ingredient          | Bioaccumulation     |
|---------------------|---------------------|
| methyl ethyl ketone | LOW (LogKOW = 0.29) |
| cyclohexanone       | LOW (BCF = 2.45)    |
| acetone             | LOW (BCF = 0.69)    |

## Mobility in soil

| Ingredient          | Mobility             |
|---------------------|----------------------|
| methyl ethyl ketone | MEDIUM (KOC = 3.827) |
| cyclohexanone       | LOW (KOC = 15.15)    |
| acetone             | HIGH (KOC = 1.981)   |

Continued...

## Masters ABS Pro


## SECTION 13 Disposal considerations

## Waste treatment methods

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product / Packaging disposal</b> | <ul style="list-style-type: none"> <li>▸ Containers may still present a chemical hazard/ danger when empty.</li> <li>▸ Return to supplier for reuse/ recycling if possible.</li> </ul> <p>Otherwise:</p> <ul style="list-style-type: none"> <li>▸ If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.</li> <li>▸ Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> <li>▸ <b>DO NOT</b> allow wash water from cleaning or process equipment to enter drains.</li> <li>▸ It may be necessary to collect all wash water for treatment before disposal.</li> <li>▸ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>▸ Where in doubt contact the responsible authority.</li> <li>▸ Recycle wherever possible.</li> <li>▸ Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.</li> <li>▸ Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material).</li> <li>▸ Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.</li> </ul> |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 14 Transport information

## Labels Required

|                         |                                                                                    |
|-------------------------|------------------------------------------------------------------------------------|
|                         |  |
| <b>Marine Pollutant</b> | NO                                                                                 |

## Land transport (TDG)

|                                     |                                            |                |
|-------------------------------------|--------------------------------------------|----------------|
| <b>UN number</b>                    | 1133                                       |                |
| <b>UN proper shipping name</b>      | ADHESIVES containing flammable liquid      |                |
| <b>Transport hazard class(es)</b>   | Class                                      | 3              |
|                                     | Subrisk                                    | Not Applicable |
| <b>Packing group</b>                | II                                         |                |
| <b>Environmental hazard</b>         | Not Applicable                             |                |
| <b>Special precautions for user</b> | Special provisions                         | Not Applicable |
|                                     | Explosive Limit and Limited Quantity Index | 5 L            |
|                                     | ERAP Index                                 | Not Applicable |

## Air transport (ICAO-IATA / DGR)

|                                     |                                          |                |
|-------------------------------------|------------------------------------------|----------------|
| <b>UN number</b>                    | 1133                                     |                |
| <b>UN proper shipping name</b>      | Adhesives containing flammable liquid    |                |
| <b>Transport hazard class(es)</b>   | ICAO/IATA Class                          | 3              |
|                                     | ICAO / IATA Subrisk                      | Not Applicable |
|                                     | ERG Code                                 | 3L             |
| <b>Packing group</b>                | II                                       |                |
| <b>Environmental hazard</b>         | Not Applicable                           |                |
| <b>Special precautions for user</b> | Special provisions                       | A3             |
|                                     | Cargo Only Packing Instructions          | 364            |
|                                     | Cargo Only Maximum Qty / Pack            | 60 L           |
|                                     | Passenger and Cargo Packing Instructions | 353            |

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|  |                                                           |      |
|--|-----------------------------------------------------------|------|
|  | Passenger and Cargo Maximum Qty / Pack                    | 5 L  |
|  | Passenger and Cargo Limited Quantity Packing Instructions | Y341 |
|  | Passenger and Cargo Limited Maximum Qty / Pack            | 1 L  |

## Sea transport (IMDG-Code / GGVSee)

|                                     |                                       |                |
|-------------------------------------|---------------------------------------|----------------|
| <b>UN number</b>                    | 1133                                  |                |
| <b>UN proper shipping name</b>      | ADHESIVES containing flammable liquid |                |
| <b>Transport hazard class(es)</b>   | IMDG Class                            | 3              |
|                                     | IMDG Subrisk                          | Not Applicable |
| <b>Packing group</b>                | II                                    |                |
| <b>Environmental hazard</b>         | Not Applicable                        |                |
| <b>Special precautions for user</b> | EMS Number                            | F-E , S-D      |
|                                     | Special provisions                    | Not Applicable |
|                                     | Limited Quantities                    | 5 L            |

## Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

## SECTION 15 Regulatory information

## Safety, health and environmental regulations / legislation specific for the substance or mixture

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

## styrene/ butadiene/ acrylonitrile copolymer is found on the following regulatory lists

Canada Categorization decisions for all DSL substances  
Canada Domestic Substances List (DSL)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

## methyl ethyl ketone is found on the following regulatory lists

Canada Categorization decisions for all DSL substances  
Canada Domestic Substances List (DSL)

Canada Toxicological Index Service - Workplace Hazardous Materials Information System - WHMIS GHS

## cyclohexanone is found on the following regulatory lists

Canada Categorization decisions for all DSL substances  
Canada Domestic Substances List (DSL)

Canada Toxicological Index Service - Workplace Hazardous Materials Information System - WHMIS GHS

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

## acetone is found on the following regulatory lists

Canada Categorization decisions for all DSL substances  
Canada Domestic Substances List (DSL)

Canada Toxicological Index Service - Workplace Hazardous Materials Information System - WHMIS GHS

## National Inventory Status

| National Inventory | Status                                                                                                                                                                                                    |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Canada - DSL       | Yes                                                                                                                                                                                                       |
| Canada - NDSL      | No (styrene/ butadiene/ acrylonitrile copolymer; methyl ethyl ketone; cyclohexanone; acetone)                                                                                                             |
| USA - TSCA         | Yes                                                                                                                                                                                                       |
| <b>Legend:</b>     | Yes = All CAS declared ingredients are on the inventory<br>No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing (see specific ingredients in brackets) |

## SECTION 16 Other information

|                     |            |
|---------------------|------------|
| <b>Initial Date</b> | 11/04/2020 |
|---------------------|------------|

Continued...

**Masters ABS Pro****Other information**

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

**Definitions and abbreviations**

PC—TWA: Permissible Concentration-Time Weighted Average

PC—STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit,

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index