# **SAFETY DATA SHEET**



#### The information in this Safety Data Sheet is required pursuant to Hazardous Product Regulations 2015.

Date of issue/Date of revision2 September 2023Version 10

| Section 1. Identif               | fication  |
|----------------------------------|---|
| Product name                     | : SIGMACOVER 256/435/456/522 K HARDENER   |
| Product code                     | : 00228046  |
| Other means of<br>identification | : Not available.  |
| Product type                     | : Liquid.   |
| Relevant identified uses of      | f the substance or mixture and uses advised against   |
| Product use                      | : Professional applications, Used by spraying.  |
| Use of the substance/<br>mixture | : Coating.  |
| Uses advised against             | : Not applicable.   |
| Supplier                         | <ul> <li>PPG Architectural Coatings Canada, Inc.<br/>1550, rue Ampère, bureau 500<br/>Boucherville (Québec) J4B 7L4<br/>Canada<br/>+1 450-655-3121</li> </ul>                                       |
|                                  | PPG Industries, Inc.<br>One PPG Place<br>Pittsburgh, PA 15272   |
| Emergency telephone<br>number    | <ul> <li>[412] 434-4515 (U.S.)</li> <li>(514) 645-1320 (Canada)</li> <li>SETIQ Interior de la República: 800-00-214-00 (México)</li> <li>SETIQ Ciudad de México: (55) 5559-1588 (México)</li> </ul> |
| Technical Phone Number           | : 888-977-4762  |

# Section 2. Hazard identification

| Classification of the | : AMMABLE LIQUIDS - Category 3  |
|-----------------------|---|
| substance or mixture  | ACUTE TOXICITY (inhalation) - Category 4                              |
|                       | SKIN CORROSION - Category 1C  |
|                       | SERIOUS EYE DAMAGE - Category 1                                       |
|                       | SKIN SENSITIZATION - Category 1A                                      |
|                       | CARCINOGENICITY - Category 2  |
|                       | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract   |
|                       | irritation) - Category 3  |
|                       | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - |
|                       | Category 3  |
|                       | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2       |
|                       | Health Hazards Not Otherwise Classified - Category 1                  |
| GHS label elements    |   |

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# Section 2. Hazard identification

| Hazard pictograms              |   |
|--------------------------------|---|
| Signal word                    | : Danger  |
| Hazard statements              | <ul> <li>Fammable liquid and vapor.</li> <li>Causes severe skin burns and eye damage.</li> <li>May cause an allergic skin reaction.</li> <li>Harmful if inhaled.</li> <li>May cause respiratory irritation.</li> <li>May cause drowsiness or dizziness.</li> <li>Suspected of causing cancer.</li> <li>May cause damage to organs through prolonged or repeated exposure. (hearing organs)</li> <li>Causes digestive tract burns.</li> <li>Prolonged or repeated contact may dry skin and cause irritation.</li> </ul>  |
| Precautionary statements       |   |
| Prevention                     | : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.   |
| Response                       | : F exposed or concerned: Get medical advice or attention. IF INHALED: Remove<br>person to fresh air and keep comfortable for breathing. Immediately call a POISON<br>CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or<br>doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off<br>immediately all contaminated clothing. Rinse skin with water. Immediately call a<br>POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON<br>SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice<br>or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove<br>contact lenses, if present and easy to do. Continue rinsing. Immediately call a<br>POISON CENTER or doctor. |
| Storage                        | : Store locked up. Store in a well-ventilated place. Keep container tightly closed.   |
| Disposal                       | : Dispose of contents and container in accordance with all local, regional, national and international regulations.   |
| Supplemental label<br>elements | <ul> <li>Do not taste or swallow. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.</li> <li>Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 23.5% (oral), 23.5% (dermal), 47.6% (inhalation)</li> </ul>  |

# Section 3. Composition/information on ingredients

| Substance/mixture                | : Mixture                               |
|----------------------------------|---|
| Product name                     | : SIGMACOVER 256/435/456/522 K HARDENER |
| Other means of<br>identification | : Not available.                        |

#### **CAS number/other identifiers**

| Ingredient name  | Synonyms  | % (w/w)  | CAS number |
|--|---|----------|------------|
| xylene   | Benzene, dimethyl-; Xylol; xylene, mixed<br>isomers, pure; xylene, crude; Benzene,<br>dimethyl-,; Xylene (mixed); Xylenes;<br>Dimethylbenzene; XYLENES (Isomer<br>Mixture); xylene (mixture), including m-<br>xylene, o-xylene, p-xylene; XYLENE,<br>mixture of isomers   | 10 - 30* | 1330-20-7  |
| 2-methylpropan-1-ol  | iso-butanol; 1-Propanol, 2-methyl-;<br>Isobutyl alcohol; Isobutanol; 2-Methyl-<br>1-propanol; Isopropylcarbinol; IBA; i-Butyl<br>alcohol; catalyst consisting predominantly<br>of dinonylnaphthalenedisulphonic acid in<br>the form of a solution in isobutanol;<br>isobutanol; iso-butanol; Isobutyl alcohol (I,<br>T)   | 10 - 30* | 78-83-1    |
| Fatty acids, C18-unsatd., dimers,<br>oligomeric reaction products with tall-<br>oil fatty acids and triethylenetetramine | Fatty acids, C18-unsatd., dimers,<br>polymers with tall-oil fatty acids and<br>triethylenetetramine; Fatty acids,<br>C18-unsaturated, dimers, polymers with<br>tall oil fatty acids and triethylenetetramine;<br>(C36) Fatty acid dimer, tall oil fatty acid,<br>triethylenetetramine polymer; Dimer fatty<br>acids, tall oil fatty acids,<br>triethylenetetramine polymer; Fatty acids,<br>C18-unsaturated, dimers, oligomeric<br>reaction products with tall-oil fatty acids<br>and triethylenetetramine;<br>Triethylenetetramine, dimer fatty acids,<br>tall oil fatty acids polymer; Dimer acid,<br>triethylenetetramine, tall oil fatty acids<br>polymer; C18-Fatty acid dimer, tall oil fatty<br>acid, triethylenetetramine polymer;<br>C18-Fatty acid dimer, tall oil fatty acid,<br>triethylenetetramine polymer; | 10 - 30* | 68082-29-1 |
| ethylbenzene   | Benzene, ethyl-; Phenylethane;<br>Ethylbenzol; photosensitive emulsion<br>consisting of cyclized polyisoprene<br>containing: — 55 % or more but not more<br>than 75 % by weight of xylene (CAS RN<br>1330-20-7) and — 12 % or more but not<br>more than 18 % by weight of<br>ethylbenzene (CAS RN 100-41-4); EB;<br>Mono-(or di-) methyl (ethyl,bromoallyl,<br>bromopropyloxycarbonyl<br>orchloropropyloxycarbonyl) benzene   | 1 - 5*   | 100-41-4   |

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## Section 3. Composition/information on ingredients

| -                                     |  |        |          |
|---------------------------------------|--|--------|----------|
| 2,4,6-tris(dimethylaminomethyl)phenol | Phenol, 2,4,6-tris[(dimethylamino)methyl]-;<br>Phenol, 2,4,6-tris(dimethylaminomethyl)-;<br>2,4,6-tris((dimethylamino)methyl)phenol;<br>Phenol, 2,4,6-tris{(dimethylamino)methyl]phenol;<br>2,4,6-Tris[(dimethylaminomethyl]phenol;<br>2,4,6-Tris(N,N-dimethylaminomethyl)phenol;<br>2,4,6-Tridimethylaminomethylphenol;<br>2,4,6-Tridimethylaminomethylphenol;<br>TRIS<br>(2,4,6-DIMETHYLAMINOMONOMETHYL)<br>PHENOL; TRIS<br>(2,4,6-DIMETHYLAMINOMETHYL)<br>PHENOL; TRIS[(DIMETHYLAMINO)<br>METHYL]PHENOL, 2,4,6- |        | 90-72-2  |
| 3,6-diazaoctanethylenediamin          | triethylenetetramine; trientine;<br>1,2-Ethanediamine, N1,N2-bis<br>(2-aminoethyl)-; 1,2-Ethanediamine, N,N'-<br>bis(2-aminoethyl)-; N,N'-Bis(2-aminoethyl)<br>-1,2-ethanediamine;<br>3,6-diazaoctamethylenediamine; N,N'-bis<br>(2-aminoethyl)ethane-1,2-diamine; N1,<br>N2-bis(2-Aminoethyl)-1,2-ethanediamine;<br>1,4,7,10-Tetraazadecane;<br>3,6-Diazaoctane-1,8-diamine; N,N'-Bis<br>(2-aminoethyl)ethylenediamine  | 1 - 5* | 112-24-3 |

\*Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

SUB codes represent substances without registered CAS Numbers.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First-aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

### Description of necessary first aid measures

| Eye contact  | <ul> <li>Check for and remove any contact lenses. Immediately flush eyes with running<br/>water for at least 15 minutes, keeping eyelids open. Seek immediate medical<br/>attention.</li> </ul>                            |
|--------------|--|
| Inhalation   | <ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is<br/>irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by<br/>trained personnel.</li> </ul> |
| Skin contact | <ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and<br/>water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>   |
| Ingestion    | : If swallowed, seek medical advice immediately and show this container or label.<br>Keep person warm and at rest. Do NOT induce vomiting.   |

#### Most important symptoms/effects, acute and delayed

## Section 4. First-aid measures

| Potential acute health effects | <u>s</u> |   |
|--------------------------------|----------|---|
| Eye contact                    | :        | Causes serious eye damage.  |
| Inhalation                     | :        | Farmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.   |
| Skin contact                   | :        | $\mathcal{C}$ auses severe burns. Defatting to the skin. May cause an allergic skin reaction.   |
| Ingestion                      | :        | Corrosive to the digestive tract. Causes burns. Can cause central nervous system (CNS) depression.  |
| Over-exposure signs/sympto     | on       | <u>15</u>   |
| Eye contact                    | :        | Adverse symptoms may include the following:<br>pain<br>watering<br>redness  |
| Inhalation                     | :        | Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing<br>nausea or vomiting<br>headache<br>drowsiness/fatigue<br>dizziness/vertigo<br>unconsciousness   |
| Skin contact                   | :        | Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>dryness<br>cracking<br>blistering may occur   |
| Ingestion                      | :        | Adverse symptoms may include the following: stomach pains   |
| Indication of immediate medic  | ca       | l attention and special treatment needed, if necessary  |
| Notes to physician             |          | In case of inhalation of decomposition products in a fire, symptoms may be delayed.<br>The exposed person may need to be kept under medical surveillance for 48 hours.  |
| Specific treatments            | 1        | No specific treatment.  |
| Protection of first-aiders     | :        | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

| Extinguishing media            |   |   |
|--------------------------------|---|---|
| Suitable extinguishing media   | : | Use dry chemical, $CO_2$ , water spray (fog) or foam. |
| Unsuitable extinguishing media | : | Do not use water jet.                                 |

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## Section 5. Fire-fighting measures

| Specific hazards arising from the chemical        | : | Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard.<br>In a fire or if heated, a pressure increase will occur and the container may burst, with<br>the risk of a subsequent explosion.  |
|---|---|--|
| Hazardous thermal decomposition products          | : | Decomposition products may include the following materials:<br>carbon oxides<br>nitrogen oxides  |
| Special protective actions for fire-fighters      | : | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
| Special protective<br>equipment for fire-fighters | : | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.  |

# Section 6. Accidental release measures

| Personal precautions, protect  | tive equipment and emergency procedures  |
|--------------------------------|--|
| For non-emergency<br>personnel | : No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilled material. Shut off all ignition sources.<br>No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide<br>adequate ventilation. Wear appropriate respirator when ventilation is inadequate.<br>Put on appropriate personal protective equipment.   |
| For emergency responders       | : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".  |
| Environmental precautions      | : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).  |
| Methods and materials for co   | ntainment and cleaning up  |
| Small spill                    | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.   |
| Large spill                    | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |

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## Section 7. Handling and storage

### Precautions for safe handling

| Protective measures  | : | Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. |
|--|---|--|
| Special precautions  | : | Vapors may accumulate in low or confined areas or travel a considerable distance to<br>a source of ignition and flash back. Vapors are heavier than air and may spread<br>along floors. If this material is part of a multiple component system, read the Safety<br>Data Sheet(s) for the other component or components before blending as the<br>resulting mixture may have the hazards of all of its parts.  |
| Advice on general<br>occupational hygiene                          | : | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.  |
| Conditions for safe storage,<br>including any<br>incompatibilities | : | Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.  |

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

| Ingredient name | Exposure limits   |  |  |  |  |
|-----------------|---|--|--|--|--|
| xylene          | CA Alberta Provincial (Canada, 6/2018).                           |  |  |  |  |
|                 | [Dimethylbenzene (o,m & p isomers)]                               |  |  |  |  |
|                 | 15 min OEL: 651 mg/m <sup>3</sup> 15 minutes.                     |  |  |  |  |
|                 | 15 min OEL: 150 ppm 15 minutes.                                   |  |  |  |  |
|                 | 8 hrs OEL: 434 mg/m <sup>3</sup> 8 hours.                         |  |  |  |  |
|                 | 8 hrs OEL: 100 ppm 8 hours.                                       |  |  |  |  |
|                 | CA British Columbia Provincial (Canada,                           |  |  |  |  |
|                 | 6/2022). [Xylene (o, m & p isomers)]<br>STEL: 150 ppm 15 minutes. |  |  |  |  |
|                 |   |  |  |  |  |
|                 | TWA: 100 ppm 8 hours.   |  |  |  |  |
|                 | CA Quebec Provincial (Canada, 6/2022).                            |  |  |  |  |
|                 | <b>[Xylene (o-,m-,p- isomers)]</b><br>STEV: 651 mg/m³ 15 minutes. |  |  |  |  |
|                 |   |  |  |  |  |
|                 | STEV: 150 ppm 15 minutes.   |  |  |  |  |
|                 | Canada Page: 7/17   |  |  |  |  |

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### Section 8. Exposure controls/personal protection

| oection of Exposure controls/personal pr   |  |
|--|--|
|  | TWAEV: 434 mg/m <sup>3</sup> 8 hours.<br>TWAEV: 100 ppm 8 hours.<br><b>CA Ontario Provincial (Canada, 6/2019).</b><br><b>[Xylene (o-, m-, p-isomers)]</b><br>STEL: 150 ppm 15 minutes.<br>TWA: 100 ppm 8 hours.<br><b>CA Saskatchewan Provincial (Canada,</b><br><b>7/2013). [Xylene (o, m-, p-isomers)]</b><br>STEL: 150 ppm 15 minutes.<br>TWA: 100 ppm 8 hours.   |
| 2-methylpropan-1-ol  | <ul> <li>CA Alberta Provincial (Canada, 6/2018).</li> <li>Skin sensitizer. <ul> <li>8 hrs OEL: 152 mg/m<sup>3</sup> 8 hours.</li> <li>8 hrs OEL: 50 ppm 8 hours.</li> </ul> </li> <li>CA British Columbia Provincial (Canada, 6/2022).</li> <li>TWA: 50 ppm 8 hours.</li> <li>CA Ontario Provincial (Canada, 6/2019).</li> <li>TWA: 50 ppm 8 hours.</li> <li>CA Quebec Provincial (Canada, 6/2022).</li> <li>TWAEV: 152 mg/m<sup>3</sup> 8 hours.</li> <li>TWAEV: 50 ppm 8 hours.</li> <li>CA Saskatchewan Provincial (Canada, 7/2013).</li> <li>STEL: 60 ppm 15 minutes.</li> <li>TWA: 50 ppm 8 hours.</li> </ul> |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with<br>tall-oil fatty acids and triethylenetetramine<br>ethylbenzene | None.<br><b>CA Alberta Provincial (Canada, 6/2018).</b><br>15 min OEL: 543 mg/m <sup>3</sup> 15 minutes.<br>15 min OEL: 125 ppm 15 minutes.<br>8 hrs OEL: 434 mg/m <sup>3</sup> 8 hours.<br>8 hrs OEL: 100 ppm 8 hours.<br><b>CA British Columbia Provincial (Canada, 6/2022).</b><br>TWA: 20 ppm 8 hours.<br><b>CA Ontario Provincial (Canada, 6/2019).</b><br>TWA: 20 ppm 8 hours.<br><b>CA Quebec Provincial (Canada, 6/2022).</b><br>TWAEV: 20 ppm 8 hours.<br><b>CA Saskatchewan Provincial (Canada, 7/2013).</b><br>STEL: 125 ppm 15 minutes.<br>TWA: 100 ppm 8 hours.                                       |
| 2,4,6-tris(dimethylaminomethyl)phenol<br>3,6-diazaoctanethylenediamin  | None.<br><b>CA Ontario Provincial (Canada, 6/2019).</b><br><b>Absorbed through skin.</b><br>TWA: 3 mg/m <sup>3</sup> 8 hours.<br>TWA: 0.5 ppm 8 hours.   |

Consult local authorities for acceptable exposure limits.

procedures

**Recommended monitoring** : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

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## Section 8. Exposure controls/personal protection

| Appropriate engineering<br>controls | :           | Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.   |
|-------------------------------------|-------------|---|
| Environmental exposure controls     | :           | Emissions from ventilation or work process equipment should be checked to ensure<br>they comply with the requirements of environmental protection legislation. In some<br>cases, fume scrubbers, filters or engineering modifications to the process<br>equipment will be necessary to reduce emissions to acceptable levels.   |
| Individual protection meas          | <u>ures</u> |   |
| Hygiene measures                    | :           | Wash hands, forearms and face thoroughly after handling chemical products, before<br>eating, smoking and using the lavatory and at the end of the working period.<br>Appropriate techniques should be used to remove potentially contaminated clothing.<br>Contaminated work clothing should not be allowed out of the workplace. Wash<br>contaminated clothing before reusing. Ensure that eyewash stations and safety<br>showers are close to the workstation location.   |
| Eye/face protection                 | :           | Chemical splash goggles and face shield.  |
| Skin protection                     |             |   |
| Hand protection                     | :           | Chemical-resistant, impervious gloves complying with an approved standard should<br>be worn at all times when handling chemical products if a risk assessment indicates<br>this is necessary. Considering the parameters specified by the glove manufacturer,<br>check during use that the gloves are still retaining their protective properties. It<br>should be noted that the time to breakthrough for any glove material may be<br>different for different glove manufacturers. In the case of mixtures, consisting of<br>several substances, the protection time of the gloves cannot be accurately<br>estimated. |
| Gloves                              |             | nitrile neoprene  |
| Body protection                     | :           | Personal protective equipment for the body should be selected based on the task<br>being performed and the risks involved and should be approved by a specialist<br>before handling this product. When there is a risk of ignition from static electricity,<br>wear anti-static protective clothing. For the greatest protection from static<br>discharges, clothing should include anti-static overalls, boots and gloves.   |
| Other skin protection               | - 1         | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.   |
| Respiratory protection              | :           | Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.  |

# Section 9. Physical and chemical properties

| ÷ | Liquid.                           |
|---|-----------------------------------|
| ÷ | Not available.                    |
| ÷ | Aromatic.                         |
|   | Not available.<br>Not applicable. |
|   | : :                               |

## Section 9. Physical and chemical properties

| Melting point                                | : Not ava | ilable.            |   |
|--|-----------|--------------------|---|
| Boiling point                                | : >37.78° | C (>100°F)         |   |
| Flash point                                  | : Closed  | cup: 26°C (78.8°F) |   |
| Auto-ignition temperature                    | : Not ava | ilable.            |   |
| Decomposition temperature                    | : Not ava | ilable.            |   |
| Flammability                                 | : Not ava | ilable.            |   |
| Lower and upper explosive (flammable) limits | : Not ava | ilable.            |   |
| Evaporation rate                             | : Not ava | ilable.            |   |
| Vapor pressure                               | : Not ava | ilable.            |   |
| Vapor density                                | : Not ava | ilable.            |   |
| Relative density                             | : 0.93    |                    |   |
| Density(lbs / gal)                           | : 7.76    |                    |   |
| Solubility/icc)                              | Media     |                    | Result  |
| Solubility(ies)                              | Ødd wa    | ater               | Not soluble                                       |
| Partition coefficient: n-<br>octanol/water   | : Not app | licable.           |   |
| Viscosity                                    |           |                    | re): >400 mm²/s (>400 cSt)<br>•21 mm²/s (>21 cSt) |
| Volatility                                   | : 56% (v/ | v), 51.675% (w/w)  |   |
| % Solid. (w/w)                               | : 48.325  |                    |   |
|  |           |                    |   |

# Section 10. Stability and reactivity

| Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients.  |
|------------------------------------|---|
| Chemical stability                 | : The product is stable.  |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.   |
| Conditions to avoid                | : When exposed to high temperatures may produce hazardous decomposition products.<br>Refer to protective measures listed in sections 7 and 8. |
| Incompatible materials             | : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.              |
| Hazardous decomposition products   | : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides                          |

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# Section 11. Toxicological information

### Information on toxicological effects

### Acute toxicity

| Product/ingredient name                                  | Result                | Species | Dose        | Exposure |
|--|-----------------------|---------|-------------|----------|
| xylene   | LD50 Dermal           | Rabbit  | 1.7 g/kg    | -        |
|  | LD50 Oral             | Rat     | 4.3 g/kg    | -        |
| 2-methylpropan-1-ol                                      | LC50 Inhalation Vapor | Rat     | 24.6 mg/l   | 4 hours  |
|  | LD50 Dermal           | Rabbit  | 2460 mg/kg  | -        |
|  | LD50 Oral             | Rat     | 2830 mg/kg  | -        |
| Fatty acids, C18-unsatd.,                                | LD50 Dermal           | Rat     | >2000 mg/kg | -        |
| dimers, oligomeric reaction products with tall-oil fatty |                       |         |             |          |
| acids and  |                       |         |             |          |
| triethylenetetramine                                     |                       |         |             |          |
|  | LD50 Oral             | Rat     | >2000 mg/kg | -        |
| ethylbenzene   | LC50 Inhalation Vapor | Rat     | 17.8 mg/l   | 4 hours  |
|  | LD50 Dermal           | Rabbit  | 17.8 g/kg   | -        |
|  | LD50 Oral             | Rat     | 3.5 g/kg    | -        |
| 2,4,6-tris   | LD50 Dermal           | Rabbit  | 1.28 g/kg   | -        |
| (dimethylaminomethyl)                                    |                       |         |             |          |
| phenol   |                       |         |             |          |
|  | LD50 Dermal           | Rat     | 1280 mg/kg  | -        |
|  | LD50 Oral             | Rat     | 1200 mg/kg  | -        |
| 3,6-diazaoctanethylenediamin                             | LD50 Dermal           | Rabbit  | 1465 mg/kg  | -        |
|  | LD50 Oral             | Rat     | 1716 mg/kg  | -        |

Conclusion/Summary

: There are no data available on the mixture itself.

#### Irritation/Corrosion

| Product/ingredient name   | Result                   | Species | Score | Exposure           | Observation |
|---|--------------------------|---------|-------|--------------------|-------------|
| <b>x</b> ylene  | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500<br>mg | -           |
| Fatty acids, C18-unsatd.,<br>dimers, oligomeric reaction<br>products with tall-oil fatty<br>acids and<br>triethylenetetramine | Eyes - Severe irritant   | Rabbit  | -     | -                  | -           |
|   | Skin - Irritant          | Human   | -     | -                  | -           |
| 2,4,6-tris<br>(dimethylaminomethyl)phenol   | Skin - Visible necrosis  | Rabbit  | -     | 4 hours            | 7 days      |

**Conclusion/Summary** 

- : There are no data available on the mixture itself.
  - : There are no data available on the mixture itself.
- **Respiratory** : There are no data available on the mixture itself.

### **Sensitization**

Skin

**Eyes** 

| Product/ingredient name  | Route of exposure | Species    | Result      |
|--|-------------------|------------|-------------|
| Atty acids, C18-unsatd.,<br>dimers, oligomeric reaction<br>products with tall-oil fatty<br>acids and<br>triethylenetetramine | skin              | Mouse      | Sensitizing |
| 3,6-diazaoctanethylenediamin   | skin              | Guinea pig | Sensitizing |

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| Skin                      | : There are no data available on the mixture itself. |  |             |                             |  |
|---------------------------|--|--|-------------|-----------------------------|--|
| Respiratory               | : Th   | There are no data available on the mixture itself. |             |                             |  |
| <b>Mutagenicity</b>       |  |  |             |                             |  |
| <b>Conclusion/Summary</b> | : Th   | ere are no   | data availa | able on the mixture itself. |  |
| Carcinogenicity           |  |  |             |                             |  |
| <b>Conclusion/Summary</b> | : There are no data available on the mixture itself. |  |             |                             |  |
| Classification            |  |  |             |                             |  |
| Product/ingredient name   |  | OSHA   | IARC        | NTP                         |  |
| <b>x</b> ylene            |  | -  | 3           | -                           |  |

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

2B

#### **Reproductive toxicity**

**Conclusion/Summary** : There are no data available on the mixture itself.

#### **Teratogenicity**

ethylbenzene

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Specific target organ toxicity (single exposure)

| Name                | •••        | Route of exposure | Target organs                   |
|---------------------|------------|-------------------|---------------------------------|
| <b>ky</b> lene      | Category 3 | -                 | Respiratory tract<br>irritation |
| 2-methylpropan-1-ol | Category 3 | -                 | Respiratory tract<br>irritation |
|                     | Category 3 |                   | Narcotic effects                |

#### Specific target organ toxicity (repeated exposure)

| Name          |   | Category   | Route of exposure | Target organs  |  |  |
|---------------|---|------------|-------------------|----------------|--|--|
| ethylbenzene  |   | Category 2 | -                 | hearing organs |  |  |
| Target organs | : Contains material which causes damage to the following organs: brain. |            |                   |                |  |  |

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea.

#### **Aspiration hazard**

| Name | Result   |
|------|--|
|      | ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1 |

#### Information on the likely routes of exposure

#### Potential acute health effects

Eye contact

: Causes serious eye damage.

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| Inhalation   | : | Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. |
|--------------|---|---|
| Skin contact | 1 | ☑auses severe burns. Defatting to the skin. May cause an allergic skin reaction.  |
| Ingestion    | : | Corrosive to the digestive tract. Causes burns. Can cause central nervous system (CNS) depression.  |

#### **Over-exposure signs/symptoms**

| Eye contact  | : Adverse symptoms may include the following:<br>pain<br>watering<br>redness  |
|--------------|---|
| Inhalation   | : Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing<br>nausea or vomiting<br>headache<br>drowsiness/fatigue<br>dizziness/vertigo<br>unconsciousness |
| Skin contact | : Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>dryness<br>cracking<br>blistering may occur   |
| Ingestion    | : Adverse symptoms may include the following: stomach pains   |

#### Delayed and immediate effects and also chronic effects from short and long term exposure

| Conclusion/Summary          | : | There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. |
|-----------------------------|---|---|
| <u>Short term exposure</u>  |   |   |
| Potential immediate effects | : | There are no data available on the mixture itself.  |
| Potential delayed effects   | : | There are no data available on the mixture itself.  |
| Long term exposure          |   |   |
| Potential immediate effects | : | There are no data available on the mixture itself.  |
| Potential delayed effects   | : | There are no data available on the mixture itself.  |

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## Section 11. Toxicological information

### Potential chronic health effects

| General                               | <ul> <li>May cause damage to organs through prolonged or repeated exposure. Prolonged<br/>or repeated contact can defat the skin and lead to irritation, cracking and/or<br/>dermatitis. Once sensitized, a severe allergic reaction may occur when<br/>subsequently exposed to very low levels.</li> </ul> |
|---------------------------------------|---|
| Carcinogenicity                       | <ul> <li>Suspected of causing cancer. Risk of cancer depends on duration and level of<br/>exposure.</li> </ul>  |
| Mutagenicity<br>Reproductive toxicity | <ul> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> </ul>  |

#### Numerical measures of toxicity

#### Acute toxicity estimates

| Product/ingredient name   | Oral (mg/<br>kg)               | Dermal<br>(mg/kg)              | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapors)<br>(mg/l) | Inhalation<br>(dusts<br>and mists)<br>(mg/l) |
|---|--------------------------------|--------------------------------|--------------------------------|----------------------------------|--|
| GMACOVER 256/435/456/522 K HARDENER<br>xylene<br>2-methylpropan-1-ol<br>Fatty acids, C18-unsatd., dimers, oligomeric<br>reaction products with tall-oil fatty acids and<br>triethylenetetramine | 2853.5<br>4300<br>2830<br>2500 | 2153.1<br>1700<br>2460<br>2500 | N/A<br>N/A<br>N/A<br>N/A       | 21.0<br>11<br>24.6<br>N/A        | 2.7<br>1.5<br>N/A<br>N/A                     |
| ethylbenzene<br>2,4,6-tris(dimethylaminomethyl)phenol<br>3,6-diazaoctanethylenediamin   | 3500<br>1200<br>1716           | 17800<br>1280<br>1465          | N/A<br>N/A<br>N/A              | 17.8<br>N/A<br>N/A               | 1.5<br>N/A<br>N/A                            |

# Section 12. Ecological information

#### **Toxicity**

| Product/ingredient name  | Result  | Species  | Exposure                  |
|--|---|--|---------------------------|
| Z-methylpropan-1-ol<br>Fatty acids, C18-unsatd.,<br>dimers, oligomeric reaction<br>products with tall-oil fatty<br>acids and<br>triethylenetetramine | Acute EC50 1100 mg/l<br>EC10 1.78 mg/l  | Daphnia<br>Algae                                       | 48 hours<br>72 hours      |
| ethylbenzene<br>2,4,6-tris<br>(dimethylaminomethyl)phenol  | Acute EC50 1.8 mg/l Fresh water<br>Chronic NOEC 1 mg/l Fresh water<br>Acute LC50 175 mg/l | Daphnia<br>Daphnia - <i>Ceriodaphnia dubia</i><br>Fish | 48 hours<br>-<br>96 hours |

#### Persistence and degradability

| Product/ingredient name | Test | Result                   | Dose | Inoculum |
|-------------------------|------|--------------------------|------|----------|
| <b>e</b> thylbenzene    | -    | 79 % - Readily - 10 days | -    | -        |

## Section 12. Ecological information

| Product/ingredient name  | Aquatic half-life | Photolysis | Biodegradability       |
|--|-------------------|------------|------------------------|
| Fatty acids, C18-unsatd.,<br>Fatty acids, C18-unsatd.,<br>dimers, oligomeric reaction<br>products with tall-oil fatty<br>acids and | -                 | -          | Readily<br>Not readily |
| triethylenetetramine<br>ethylbenzene   | -                 | -          | Readily                |

#### **Bioaccumulative potential**

| Product/ingredient name      | LogPow        | BCF         | Potential |
|------------------------------|---------------|-------------|-----------|
| <b>x</b> ylene               | 3.12          | 7.4 to 18.5 | Low       |
| 2-methylpropan-1-ol          | 1             | -           | Low       |
| ethylbenzene                 | 3.6           | 79.43       | Low       |
| 2,4,6-tris                   | 0.219         | -           | Low       |
| (dimethylaminomethyl)phenol  |               |             |           |
| 3,6-diazaoctanethylenediamin | -1.66 to -1.4 | -           | Low       |

#### Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

### Section 14. Transport information

|                                | TDG                            | IMDG                           | ΙΑΤΑ                           |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| UN number                      | UN3469                         | UN3469                         | UN3469                         |
| UN proper shipping name        | PAINT, FLAMMABLE,<br>CORROSIVE | PAINT, FLAMMABLE,<br>CORROSIVE | PAINT, FLAMMABLE,<br>CORROSIVE |
| Transport hazard class<br>(es) | 3 (8)                          | 3 (8)                          | 3 (8)                          |
| Packing group                  | III                            | III                            | III                            |
| Environmental hazards          | No.                            | No.                            | No.                            |
| Marine pollutant<br>substances | Not applicable.                | Not applicable.                | Not applicable.                |

#### Additional information

- TDG : None identified.
- IMDG : None identified.
- ΙΑΤΑ : None identified.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

#### Transport in bulk according : Not applicable. to IMO instruments

| Proof of classification | : Product classified as per the following sections of the Transportation of Dangerous |
|-------------------------|---|
| statement               | Goods Regulations: 2.18-2.19 (Class 3), 2.40-2.42 (Class 8).                          |

### Section 15. Regulatory information

#### **National Inventory List**

Canada inventory (DSL)

: At least one component is not listed in DSL but all such components are listed in NDSL.

### Section 16. Other information

#### Hazardous Material Information System (U.S.A.)

Flammability : 3 Physical hazards : Health : 3 0

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

| Health           | : | 3        | Flammability | :  | 3   | Instability | 1 | 0 |
|------------------|---|----------|--------------|----|-----|-------------|---|---|
| Date of revision |   | e/Date c | of 2         | Se | pte | mber 2023   |   |   |

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### Section 16. Other information

| Organization that prepared the SDS | : EHS   |
|------------------------------------|---|
| Key to abbreviations               | : ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = Internediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973<br>as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br>N/A = Not available<br>SGG = Segregation Group<br>UN = United Nations |

#### Indicates information that has changed from previously issued version.

#### **Disclaimer**

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