SAFETY DATA SHEET

Section 1. Identification

Product identifier : A-4115S
Product name : Universal Etch Primer Green
Other means of identification : 1250043186

Date of issue : 2/18/2020
Version : 4

Relevant identified uses of the substance or mixture and uses advised against
Identified uses : Not available.
Uses advised against : For industrial use only by trained professionals. Not for sale to or use by consumers.

Supplier's details : Axalta Coating Systems, LLC
Two Commerce Square,
2001 Market Street
Suite 3600
Philadelphia, PA 19109
USA

Product information : 855-6AXALTA

Emergency telephone number : (CHEMTREC) - 800-424-9300

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE AEROSOLS - Category 1
GASES UNDER PRESSURE - Compressed gas
SKIN IRRITATION - Category 2
SERIOUS EYE DAMAGE - Category 1
SKIN SENSITIZATION - Category 1
GERM CELL MUTAGENICITY - Category 1
CARCINOGENICITY - Category 1B
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 20.6%
Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 23.1%
Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 21.9%

GHS label elements
Section 2. Hazards identification

Signal word : Danger

Hazard statements :
- H222 - Extremely flammable aerosol.
- H280 - Contains gas under pressure; may explode if heated.
- H318 - Causes serious eye damage.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H340 - May cause genetic defects.
- H350 - May cause cancer.
- H336 - May cause drowsiness or dizziness.
- H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention :
- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211 - Do not spray on an open flame or other ignition source.
- P271 - Use only outdoors or in a well-ventilated area.
- P260 - Do not breathe dust or mist.
- P270 - Do not eat, drink or smoke when using this product.
- P264 - Wash hands thoroughly after handling.
- P272 (OSHA) - Contaminated work clothing must not be allowed out of the workplace.
- P251 - Pressurized container: Do not pierce or burn, even after use.

Response :
- P314 - Get medical attention if you feel unwell.
- P308 + P313 - IF exposed or concerned: Get medical attention.
- P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
- P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.
- P333 + P313 - If skin irritation or rash occurs: Get medical attention.
- P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

Storage :
- P405 - Store locked up.
- P410 - Protect from sunlight.
- P412 - Do not expose to temperatures exceeding 50 °C/122 °F.
- P403 - Store in a well-ventilated place.

Disposal :
- P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified :
None known.
Section 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetone</td>
<td>≥25 - ≤50</td>
<td>67-64-1</td>
</tr>
<tr>
<td>methyl acetate</td>
<td>≥10 - ≤25</td>
<td>79-20-9</td>
</tr>
<tr>
<td>propane</td>
<td>≥10 - ≤25</td>
<td>68476-85-7</td>
</tr>
<tr>
<td>n-butyl acetate</td>
<td>≤10</td>
<td>123-86-4</td>
</tr>
<tr>
<td>n-butanol</td>
<td>≤10</td>
<td>71-36-3</td>
</tr>
<tr>
<td>2-methoxy-1-methylethyl acetate</td>
<td>≤5</td>
<td>108-65-6</td>
</tr>
<tr>
<td>ethyl acetate</td>
<td>≤5</td>
<td>141-78-6</td>
</tr>
<tr>
<td>titanium dioxide</td>
<td>≤3</td>
<td>13463-67-7</td>
</tr>
<tr>
<td>4-methylpentan-2-one</td>
<td>≤2.7</td>
<td>108-10-1</td>
</tr>
<tr>
<td>butanone</td>
<td>≤2.7</td>
<td>78-93-3</td>
</tr>
<tr>
<td>xylene</td>
<td>≤2</td>
<td>1330-20-7</td>
</tr>
<tr>
<td>Polyvinyl Butyral Resin</td>
<td>≤3</td>
<td>63148-65-2</td>
</tr>
<tr>
<td>Talc (none asbestiform)</td>
<td>≤3</td>
<td>14807-96-6</td>
</tr>
<tr>
<td>Bisphenol A-bisphenol A diglycidyl ether copolymer</td>
<td>≤3</td>
<td>25036-25-3</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>&lt;1</td>
<td>100-41-4</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

Description of necessary first aid measures

**Eye contact**: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

**Inhalation**: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact**: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion**: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.
Section 4. First aid measures

Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- **Eye contact**: Causes serious eye damage.
- **Inhalation**: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- **Skin contact**: Causes skin irritation. May cause an allergic skin reaction.
- **Ingestion**: Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

- **Eye contact**: Adverse symptoms may include the following:
  - Pain
  - Watering
  - Redness
- **Inhalation**: Adverse symptoms may include the following:
  - Respiratory tract irritation
  - Coughing
  - Nausea or vomiting
  - Headache
  - Drowsiness/fatigue
  - Dizziness/Vertigo
  - Unconsciousness
- **Skin contact**: Adverse symptoms may include the following:
  - Pain or irritation
  - Redness
  - Blistering may occur
- **Ingestion**: Adverse symptoms may include the following:
  - Stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician**: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments**: 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 an extinguishing agent suitable for the surrounding fire.
- **Unsuitable extinguishing media**: None known.
Section 5. Fire-fighting measures

Specific hazards arising from the chemical: Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.

Hazardous thermal decomposition products: Decomposition products may include the following materials:
- carbon dioxide
- carbon monoxide
- phosphorus oxides
- metal oxide/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 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, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flames, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 containment 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.
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. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. 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. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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. Empty containers retain product residue and can be hazardous.

Advice on general 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, including any incompatibilities: Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Storage code: IB

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
</table>
| acetone         | ACGIH TLV (United States, 3/2018).  
TWA: 250 ppm 8 hours.  
STEL: 500 ppm 15 minutes.  
TWA: 750 ppm 8 hours.  
TWA: 1800 mg/m³ 8 hours.  
STEL: 1000 ppm 15 minutes.  
STEL: 2400 mg/m³ 15 minutes.  
NIOSH REL (United States, 10/2016).  
TWA: 250 ppm 10 hours.  
TWA: 590 mg/m³ 10 hours.  
OSHA PEL (United States, 5/2018).  
TWA: 1000 ppm 8 hours.  
TWA: 2400 mg/m³ 8 hours.  |
| methyl acetate  | ACGIH TLV (United States, 3/2018).  
TWA: 200 ppm 8 hours.  
TWA: 606 mg/m³ 8 hours.  
STEL: 250 ppm 15 minutes.  
STEL: 757 mg/m³ 15 minutes.  
TWA: 200 ppm 8 hours.  |
Section 8. Exposure controls/personal protection

propane

TWA: 610 mg/m³ 8 hours.
STEL: 250 ppm 15 minutes.
STEL: 760 mg/m³ 15 minutes.

NIOSH REL (United States, 10/2016).
TWA: 200 ppm 10 hours.
TWA: 610 mg/m³ 10 hours.
STEL: 250 ppm 15 minutes.
STEL: 760 mg/m³ 15 minutes.

OSHA PEL (United States, 5/2018).
TWA: 200 ppm 8 hours.
TWA: 610 mg/m³ 8 hours.

TWA: 1000 ppm 8 hours.
TWA: 1800 mg/m³ 8 hours.

NIOSH REL (United States, 10/2016).
TWA: 1000 ppm 10 hours.
TWA: 1800 mg/m³ 10 hours.

OSHA PEL (United States, 5/2018).
TWA: 1000 ppm 8 hours.
TWA: 1800 mg/m³ 8 hours.


n-butyl acetate

TWA: 150 ppm 8 hours.
TWA: 710 mg/m³ 8 hours.
STEL: 200 ppm 15 minutes.
STEL: 950 mg/m³ 15 minutes.

NIOSH REL (United States, 10/2016).
TWA: 150 ppm 10 hours.
TWA: 710 mg/m³ 10 hours.
STEL: 200 ppm 15 minutes.
STEL: 950 mg/m³ 15 minutes.

OSHA PEL (United States, 5/2018).
TWA: 150 ppm 8 hours.
TWA: 710 mg/m³ 8 hours.

ACGIH TLV (United States, 3/2018).
STEL: 150 ppm 15 minutes.
TWA: 50 ppm 8 hours.

n-butanol

ACGIH TLV (United States, 3/2018).
TWA: 20 ppm 8 hours.
CEIL: 50 ppm
CEIL: 150 mg/m³

NIOSH REL (United States, 10/2016). Absorbed through skin.
CEIL: 50 ppm
CEIL: 150 mg/m³

OSHA PEL (United States, 5/2018).
TWA: 100 ppm 8 hours.
TWA: 300 mg/m³ 8 hours.
## Section 8. Exposure controls/personal protection

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Standard</th>
<th>TWA Limit</th>
<th>STEL Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-methoxy-1-methylethyl acetate</td>
<td>AIHA WEEL (United States, 5/2018).</td>
<td>50 ppm 8 hours.</td>
<td></td>
</tr>
<tr>
<td>ethyl acetate</td>
<td>ACGIH TLV (United States, 3/2018).</td>
<td>400 ppm 8 hours.</td>
<td>1440 mg/m³ 8 hours.</td>
</tr>
<tr>
<td></td>
<td>NIOSH REL (United States, 10/2016).</td>
<td>400 ppm 10 hours.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA PEL (United States, 5/2018).</td>
<td>400 ppm 8 hours.</td>
<td>1400 mg/m³ 8 hours.</td>
</tr>
<tr>
<td>titanium dioxide</td>
<td>ACGIH TLV (United States, 3/2018).</td>
<td>10 mg/m³ 8 hours.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA PEL 1989 (United States, 3/1989).</td>
<td>10 mg/m³ 8 hours.</td>
<td>Form: Total dust</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL (United States, 5/2018).</td>
<td>15 mg/m³ 8 hours.</td>
<td>Form: Total dust</td>
</tr>
<tr>
<td>4-methylpentan-2-one</td>
<td>ACGIH TLV (United States, 3/2018).</td>
<td>20 ppm 8 hours.</td>
<td>75 ppm 15 minutes.</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL 1989 (United States, 3/1989).</td>
<td>50 ppm 8 hours.</td>
<td>205 mg/m³ 8 hours.</td>
</tr>
<tr>
<td></td>
<td>NIOSH REL (United States, 10/2016).</td>
<td>50 ppm 10 hours.</td>
<td>75 ppm 15 minutes.</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL (United States, 5/2018).</td>
<td>100 ppm 8 hours.</td>
<td>410 mg/m³ 8 hours.</td>
</tr>
<tr>
<td>butanone</td>
<td>ACGIH TLV (United States, 3/2018).</td>
<td>200 ppm 8 hours.</td>
<td>590 mg/m³ 8 hours.</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL 1989 (United States, 3/1989).</td>
<td>200 ppm 8 hours.</td>
<td>590 mg/m³ 8 hours.</td>
</tr>
<tr>
<td></td>
<td>NIOSH REL (United States, 10/2016).</td>
<td>200 ppm 10 hours.</td>
<td>300 ppm 15 minutes.</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL (United States, 5/2018).</td>
<td>200 ppm 10 hours.</td>
<td>885 mg/m³ 15 minutes.</td>
</tr>
</tbody>
</table>
**Section 8. Exposure controls/personal protection**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Exposure Limits</th>
<th>Sources</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylene</td>
<td>TWA: 200 ppm 8 hours. TWA: 590 mg/m³ 8 hours.</td>
<td>ACGIH TLV (United States, 3/2018). TWA: 100 ppm 8 hours. TWA: 434 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 651 mg/m³ 15 minutes. OSHA PEL 1989 (United States, 3/1989). TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. STEL: 150 ppm 15 minutes. STEL: 655 mg/m³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours.</td>
</tr>
<tr>
<td>Polyvinyl Butyral Resin</td>
<td>None.</td>
<td>OSHA PEL 1989 (United States, 3/1989). TWA: 2 mg/m³ 8 hours. Form: Respirable dust ACGIH TLV (United States, 3/2018). TWA: 2 mg/m³ 8 hours. Form: Respirable fraction NIOSH REL (United States, 10/2016). TWA: 2 mg/m³ 10 hours. Form: Respirable fraction</td>
</tr>
<tr>
<td>Talc (none asbestiform)</td>
<td>None.</td>
<td>OSHA PEL 1989 (United States, 3/1989). TWA: 2 mg/m³ 8 hours. Form: Respirable fraction ACGIH TLV (United States, 3/2018). TWA: 20 ppm 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m³ 15 minutes. NIOSH REL (United States, 10/2016). TWA: 100 ppm 10 hours. TWA: 435 mg/m³ 10 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours.</td>
</tr>
<tr>
<td>Bisphenol A-bisphenol A diglycidyl ether copolymer</td>
<td>None.</td>
<td>ACGIH TLV (United States, 3/2018). TWA: 20 ppm 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m³ 15 minutes. NIOSH REL (United States, 10/2016). TWA: 100 ppm 10 hours. TWA: 435 mg/m³ 10 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours.</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>None.</td>
<td>ACGIH TLV (United States, 3/2018). TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. STEL: 651 mg/m³ 15 minutes. OSHA PEL 1989 (United States, 3/1989). TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. STEL: 655 mg/m³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours.</td>
</tr>
</tbody>
</table>

**Appropriate engineering 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 they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Section 8. Exposure controls/personal protection

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection: 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: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state: Liquid.
Color: Green.
Odor: Not available.
Odor threshold: Not available.

pH: Not applicable.

Melting point: Not applicable.
Boiling point: Not applicable.
Flash point: Closed cup: -10.222°C (13.6°F)

Evaporation rate: Not available.
Flammability (solid, gas): Not available.
Lower and upper explosive (flammable) limits: Lower: 1.2% Upper: 16%

Vapor pressure: 32 kPa (240 mm Hg) [room temperature]
Vapor density: 2 [Air = 1]
Relative density: 0.824 g/cm³
Section 9. Physical and chemical properties

Solubility: Soluble in the following materials: cold water.
Solubility in water: Not available.
Partition coefficient: n-octanol/water: Not available.
Auto-ignition temperature: 272°C (521.6°F)
Decomposition temperature: Not applicable.
Viscosity: Not available.
Flow time (ISO 2431): Not available.

Aerosol product
Type of aerosol: Spray
Heat of combustion: 19.7 kJ/g

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: Avoid all possible sources of ignition (spark or flame).
Incompatible materials: No specific data.
Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetone</td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>21 mg/l</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>2001 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>5800 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>methyl acetate</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt;5 g/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;5 g/kg</td>
<td>-</td>
</tr>
<tr>
<td>n-butyl acetate</td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>21.1 mg/l</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt;17600 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>10768 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>n-butanol</td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>24000 mg/m³</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>3400 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>790 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>2-methoxy-1-methylethyl</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt;5 g/kg</td>
<td>-</td>
</tr>
</tbody>
</table>
## Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethyl acetate</td>
<td>LD50 Oral 8532 mg/kg</td>
<td>Rat</td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation Vapor 22.6 mg/l</td>
<td>Rat</td>
<td>4 hours</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal 20001 mg/kg</td>
<td>Rabbit</td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Oral 5620 mg/kg</td>
<td>Rat</td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>4-methylpentan-2-one</td>
<td>LC50 Inhalation Vapor 16.4 mg/l</td>
<td>Rat</td>
<td>4 hours</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Oral 2080 mg/kg</td>
<td>Rat</td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>butanone</td>
<td>LD50 Dermal 6480 mg/kg</td>
<td>Rabbit</td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Oral 2737 mg/kg</td>
<td>Rat</td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>xylene</td>
<td>LC50 Inhalation Gas. 5000 ppm</td>
<td>Rat</td>
<td>4 hours</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Oral 4300 mg/kg</td>
<td>Rat</td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>LD50 Dermal &gt;5000 mg/kg</td>
<td>Rabbit</td>
<td></td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 Oral 3500 mg/kg</td>
<td>Rat</td>
<td></td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

### Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetone</td>
<td>Eyes - Mild irritant</td>
<td>Human</td>
<td>-</td>
<td>186300 parts per million</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>10 microliters</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 20 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>20 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>395 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>methyl acetate</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 20 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>n-butanol</td>
<td>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 2 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>0.005 Mililiters</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 20 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>titanium dioxide</td>
<td>Skin - Mild irritant</td>
<td>Human</td>
<td>-</td>
<td>72 hours 300 Micrograms Intermittent</td>
<td>-</td>
</tr>
<tr>
<td>4-methylpentan-2-one</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 microliters</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>40 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>butanone</td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 14 milligrams</td>
<td>-</td>
</tr>
</tbody>
</table>
Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Skin - Moderate irritant</th>
<th>Eyes - Mild irritant</th>
<th>Eyes - Severe irritant</th>
<th>Skin - Mild irritant</th>
<th>Skin - Moderate irritant</th>
<th>Sensitization</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylene</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
<td>-</td>
<td>Not available.</td>
<td>Category 3</td>
</tr>
<tr>
<td>Polyvinyl Butyral Resin</td>
<td>Rabbit</td>
<td>-</td>
<td>100 Percent</td>
<td>-</td>
<td>-</td>
<td>Not available.</td>
<td>Category 3</td>
</tr>
<tr>
<td>Talc (none asbestiform)</td>
<td>Human</td>
<td>-</td>
<td>72 hours 300 Micrograms</td>
<td>-</td>
<td>-</td>
<td>Not available.</td>
<td>Category 3</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 15 milligrams</td>
<td>-</td>
<td>-</td>
<td>Not available.</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

**Carcinogenicity**
Not available.

**Mutagenicity**
Not available.

**Reproductive toxicity**
Not available.

**Teratogenicity**
Not available.

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetone</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Narcotic effects</td>
</tr>
<tr>
<td>methyl acetate</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Narcotic effects</td>
</tr>
<tr>
<td>n-butyl acetate</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Narcotic effects</td>
</tr>
<tr>
<td>n-butanol</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Narcotic effects</td>
</tr>
<tr>
<td>ethyl acetate</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Narcotic effects</td>
</tr>
<tr>
<td>4-methylpentan-2-one</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Narcotic effects</td>
</tr>
<tr>
<td>butanone</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Narcotic effects</td>
</tr>
<tr>
<td>xylene</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation.</td>
</tr>
</tbody>
</table>
Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc (none asbestiform)</td>
<td>Category 1</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>Category 2</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
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</table>

Aspiration hazard

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylene</td>
<td>ASPIRATION HAZARD - Category 1</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>ASPIRATION HAZARD - Category 1</td>
</tr>
</tbody>
</table>

Information on the likely routes of exposure

Potential acute health effects

Eye contact: Causes serious eye damage.
Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact: Causes skin irritation. May cause an allergic skin reaction.
Ingestion: Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:
- pain
- watering
- redness

Inhalation: Adverse symptoms may include the following:
- respiratory tract irritation
- coughing
- nausea or vomiting
- headache
- drowsiness/fatigue
- dizziness/vertigo
- unconsciousness

Skin contact: Adverse symptoms may include the following:
- pain or irritation
- redness
- 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

Short term exposure

Potential immediate effects: Not available.
Potential delayed effects: Not available.

Long term exposure

Potential immediate effects: Not available.
Potential delayed effects: Not available.
Section 11. Toxicological information

**Potential chronic health effects**

Not available.

- **General**: Causes damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

- **Carcinogenicity**: May cause cancer. Risk of cancer depends on duration and level of exposure.

- **Mutagenicity**: May cause genetic defects.

- **Teratogenicity**: No known significant effects or critical hazards.

- **Developmental effects**: No known significant effects or critical hazards.

- **Fertility effects**: No known significant effects or critical hazards.

**Numerical measures of toxicity**

**Acute toxicity estimates**

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>5611.51 mg/kg</td>
</tr>
<tr>
<td>Dermal</td>
<td>4393.59 mg/kg</td>
</tr>
<tr>
<td>Inhalation (gases)</td>
<td>214997.63 ppm</td>
</tr>
<tr>
<td>Inhalation (vapors)</td>
<td>530 mg/l</td>
</tr>
<tr>
<td>Inhalation (gases)</td>
<td></td>
</tr>
<tr>
<td>Inhalation (vapors)</td>
<td></td>
</tr>
</tbody>
</table>

Section 12. Ecological information

There are no data available on the product itself. The product should not be allowed to enter drains or watercourses waterways.

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 non-recyclable 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. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

<table>
<thead>
<tr>
<th>DOT Classification</th>
<th>TDG Classification</th>
<th>Mexico Classification</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>UN1950</td>
<td>UN1950</td>
<td>UN1950</td>
<td>UN1950</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>AEROSOLS</td>
<td>AEROSOLS</td>
<td>AEROSOLS</td>
<td>AEROSOLS</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aerosols, flammable</td>
<td></td>
</tr>
</tbody>
</table>
Section 14. Transport information

<table>
<thead>
<tr>
<th>Transport hazard class(es)</th>
<th>2.1</th>
<th>2.1</th>
<th>2.1</th>
<th>2.1</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Packing group</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Additional information**

**TDG Classification**
Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2).

**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 to Annex II of MARPOL and the IBC Code**
Not available.

The actual shipping description for this product may vary based several factors including, but not limited to, the volume of material, size of the container, mode of transport and use of exemptions or exceptions found in the applicable regulations. The information provided in Section 14 is one possible shipping description for this product. Consult your shipping specialist or supplier for appropriate assignment information.

Section 15. Regulatory information

**Clean Air Act Section 112**
(b) Hazardous Air Pollutants (HAPs): Listed

**SARA 304 RQ**
SARA 304 RQ: Not applicable.

**SARA 311/312 Classification**
FLAMMABLE AEROSOLS - Category 1
GASES UNDER PRESSURE - Compressed gas
SKIN IRRITATION - Category 2
SERIOUS EYE DAMAGE - Category 1
SKIN SENSITIZATION - Category 1
GERM CELL MUTAGENICITY - Category 1
CARCINOGENICITY - Category 1B
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

**SARA 313**
### Section 15. Regulatory information

<table>
<thead>
<tr>
<th>Product name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form R - Reporting requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>n-butanol</td>
<td>71-36-3</td>
<td>≤10</td>
</tr>
<tr>
<td>4-methylpentan-2-one</td>
<td>108-10-1</td>
<td>≤2.7</td>
</tr>
<tr>
<td>xylene</td>
<td>1330-20-7</td>
<td>≤2</td>
</tr>
<tr>
<td>trizinc bis(orthophosphate)</td>
<td>7779-90-0</td>
<td>≤3</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>100-41-4</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Supplier notification</td>
<td></td>
<td></td>
</tr>
<tr>
<td>n-butanol</td>
<td>71-36-3</td>
<td>≤10</td>
</tr>
<tr>
<td>4-methylpentan-2-one</td>
<td>108-10-1</td>
<td>≤2.7</td>
</tr>
<tr>
<td>xylene</td>
<td>1330-20-7</td>
<td>≤2</td>
</tr>
<tr>
<td>trizinc bis(orthophosphate)</td>
<td>7779-90-0</td>
<td>≤3</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>100-41-4</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

**Inventory list**

- **Canada**: All components are listed or exempted.
- **United States**: Not determined.

### Section 16. Other information

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

| Health | 3 |
| Flammability | 3 |
| Physical hazards | 3 |

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 SDSs 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 | 4 |
| Flammability | 0 |
| Instability/Reactivity | |

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#### History

- **Date of issue**: 2/18/2020
- **Version**: 4

Product stewardship and regulatory compliance.
Section 16. Other information

Key to abbreviations:
- ATE = Acute Toxicity Estimate
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- UN = United Nations

Notice to reader

- This product is intended for industrial use only.

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