SAFETY DATA SHEET
in accordance with 2015/830/EU (REACH, Annex II) 29 CFR 1910.1200, WHMIS 2015 and Safe Work Australia

Revision date: 20 November 2019  Initial date of issue: 6 July 2007  SDS No. 168B-21

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
763 Rust Transformer® (Bulk)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Acid base coating. Stops rusting and prevents further corrosive damage to metal and forms a sound base for primer coating.

1.3. Details of the supplier of the safety data sheet
Company: A.W. CHESTERTON COMPANY
860 Salem Street
Groveland, MA 01834-1507, USA
Tel. +1 978-469-6446  Fax: +1 978-469-6785
(Mon. - Fri. 8:30 - 5:00 PM EST)
SDS requests: www.chesterton.com
E-mail (SDS questions): ProductSDSs@chesterton.com
E-mail: customer.service@chesterton.com

Canada: A.W. Chesterton Company Ltd., 889 Fraser Drive,
Unit 105, Burlington, Ontario L7L 4X8 – Tel. 905-335-5055
EU: Chesterton International GmbH, Am Lenzenfleck 23,
D85737 Ismaning, Germany – Tel. +49-89-996-5460

1.4. Emergency telephone number
24 hours per day, 7 days per week
Call Infotrac: 1-800-535-5053
Outside N. America: +1 352-323-3500 (collect)
NSW Poisons Information Centre (Australia): 13 11 26

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Flammable liquid, Category 3, H226
Skin corrosion, Category 1B, H314
Serious eye damage, Category 1, H318
Specific target organ toxicity – repeated exposure, Category 2, H373 (kidneys, oral)

2.1.2. Australian statement of hazardous nature
Hazardous according to criteria of Safe Work Australia.

2.1.3. Additional information
For full text of H-statements: see SECTIONS 2.2 and 16.

2.2. Label elements
Hazard pictograms:

Signal word: Danger
Hazard statements:
- H226 Flammable liquid and vapour.
- H314 Causes severe skin burns and eye damage.
- H373 May cause damage to the kidneys through prolonged or repeated exposure if swallowed.

Precautionary statements:
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P240 Ground and bond container and receiving equipment.
- P243 Take action to prevent static discharges.
- P260 Do not breathe vapours/spray.
- P280 Wear protective gloves/clothing and eye/face protection.
- P301/330/3331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P303/361/353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- P304/340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER or doctor.
- P314 Get medical advice/attention if you feel unwell.
- P363 Wash contaminated clothing before reuse.
- P403/351/338 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P405 Store locked up.
- P501 Dispose of contents/container to an approved waste disposal plant.

Supplemental information:
None

2.3. Other hazards
It will stain the skin after prolonged contact. The stain will fade in time or it can be removed by rinsing the hands with a dilute solution of bleach.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

<table>
<thead>
<tr>
<th>Hazardous Ingredients¹</th>
<th>% Wt.</th>
<th>CAS No./ EC No.</th>
<th>REACH Reg. No.</th>
<th>CLP/GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>15-25</td>
<td>107-21-1</td>
<td>NA</td>
<td>Acute Tox. 4, H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td>203-473-3</td>
<td></td>
<td>STOT RE 2, H373 (kidneys, oral)</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>10-15</td>
<td>67-63-0</td>
<td>NA</td>
<td>Flam. Liq. 2, H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200-661-7</td>
<td></td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H336</td>
</tr>
<tr>
<td>Tannic acid</td>
<td>10-15</td>
<td>1401-55-4</td>
<td>NA</td>
<td>[Acute Tox. 5, H303]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>215-753-2</td>
<td></td>
<td>[Aquatic Acute 3, H402]</td>
</tr>
<tr>
<td>Phosphinic acid</td>
<td>1-5</td>
<td>6303-21-5</td>
<td>NA</td>
<td>Met. Corr. 1, H290</td>
</tr>
<tr>
<td></td>
<td></td>
<td>228-60-15</td>
<td></td>
<td>[Acute Tox. 5, H303]</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Corr. 1B, H314</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td>Phosphinic acid, barium salt</td>
<td>1-2</td>
<td>14871-79-5</td>
<td>NA</td>
<td>Acute Tox. 4, H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td>238-942-1</td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td>Alcohols, C12-15, Ethoxylated Propoxylated</td>
<td>0.1-0.2</td>
<td>68551-13-3</td>
<td>NA</td>
<td>Acute Tox. 4, H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td>614-582-4</td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2, H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 1, H400</td>
</tr>
</tbody>
</table>

Any classification in brackets is a GHS building block that was not adopted by the EU, the US, Canada and Australia in their national implementations of GHS. For full text of H-statements: see SECTION 16.

¹ Classified according to:
• 1272/2008/EC, GHS, REACH
• WHMIS 2015
• Safe Work Australia
### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

**Inhalation:** Remove to fresh air. If not breathing, administer artificial respiration. Contact physician.

**Skin contact:** Wash skin with plenty of water. Wash clothing before reuse. Consult physician.

**Eye contact:** Flush eyes for at least 30 minutes with large amounts of water. Consult physician.

**Ingestion:** Do not induce vomiting. If conscious, dilute stomach contents with large quantities of water. Contact physician immediately.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training. Avoid contact with the product while providing aid to the victim. Do not breathe mist/vapours. See section 8.2.2 for recommendations on personal protective equipment.

#### 4.2. Most important symptoms and effects, both acute and delayed

Severe eye and skin irritant; may cause burns. Excessive inhalation of vapor may result in dizziness, headache and other central nervous system effects. Repeated overexposure to Ethylene Glycol can cause kidney and liver effects.

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

Treat symptoms.

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

**Suitable extinguishing media:** Carbon dioxide, dry chemical, foam, water fog or water spray

**Unsuitable extinguishing media:** High volume water jet

#### 5.2. Special hazards arising from the substance or mixture

None

#### 5.3. Advice for firefighters

Cool exposed containers with water. Recommend Firefighters wear self-contained breathing apparatus.

**Flammability Classification:** –

**HAZCHEM Emergency Action Code:** 3 Z

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Evacuate area. Provide adequate ventilation. Utilize exposure controls and personal protection as specified in Section 8.

#### 6.2. Environmental Precautions

Keep out of sewers, streams and waterways.

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

Contain spill to a small area. Keep away from sources of ignition - No smoking. If removal of ignition sources is not possible, then flush material away with water. Pick up with absorbent material (sand, sawdust, clay, etc.) and place in a suitable container for disposal.

#### 6.4. Reference to other sections

Refer to section 13 for disposal advice.

### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Wash skin thoroughly after handling. Utilize exposure controls and personal protection as specified in Section 8. Keep container closed when not in use. Ground and bond container and receiving equipment. Take action to prevent static discharges.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry and well-ventilated area.

#### 7.3. Specific end use(s)

No special precautions.
### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

**Occupational exposure limit values**

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>OSHA PEL¹ ppm</th>
<th>mg/m³</th>
<th>ACGIH TLV² ppm</th>
<th>mg/m³</th>
<th>UK WEL³ ppm</th>
<th>mg/m³</th>
<th>AUSTRALIA ES⁴ ppm</th>
<th>mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol*</td>
<td>N/A</td>
<td>N/A</td>
<td>25 (vapor)</td>
<td>STEL: 10 (aerosol)</td>
<td>52 (vapor)</td>
<td>STEL: 40 (aerosol)</td>
<td>104 (vapor)</td>
<td>52 (vapor)</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>400</td>
<td>980</td>
<td>200 (vapor)</td>
<td>STEL: 400 (aerosol)</td>
<td>999 (vapor)</td>
<td>STEL: 500 (aerosol)</td>
<td>1,250 (aerosol)</td>
<td>400 (vapor)</td>
</tr>
<tr>
<td>Tannic acid</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Phosphinic acid</td>
<td>N/A</td>
<td>N/A</td>
<td>0.5 (as Ba)</td>
<td>N/A</td>
<td>0.5 (as Ba)</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Phosphinic acid, barium salt</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Alcohols, C12-15, Ethoxylated Propoxylated</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

*European Union Occupational Exposure Limit Value: Inhalable fraction and vapor: 20 ppm, 52 mg/m³ (8-hr TWA); 40 ppm, 104 mg/m³ (STEL)

¹ United States Occupational Health & Safety Administration permissible exposure limits

² American Conference of Governmental Industrial Hygienists threshold limit values

³ EH40 Workplace exposure limits, Health & Safety Executive

⁴ Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants

#### Biological limit values

**Isopropanol:**

<table>
<thead>
<tr>
<th>Control parameter</th>
<th>Biological specimen</th>
<th>Sampling Time</th>
<th>Limit value</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>Urine</td>
<td>End of shift at end of workweek</td>
<td>40 mg/l</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>

**Derived No Effect Level (DNEL) according to Regulation (EC) No 1907/2006:**

**Workers**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Route of exposure</th>
<th>Potential health effects</th>
<th>DNEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>Inhalation</td>
<td>Chronic effects, systemic</td>
<td>500 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Dermal</td>
<td>Chronic effects, systemic</td>
<td>888 mg/kg bw/day</td>
</tr>
</tbody>
</table>

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No 1907/2006:**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Environmental protection target</th>
<th>PNEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>Fresh water</td>
<td>140.9 mg/l</td>
</tr>
<tr>
<td></td>
<td>Marine water</td>
<td>140.9 mg/l</td>
</tr>
<tr>
<td></td>
<td>Water, intermittent release</td>
<td>140.9 mg/l</td>
</tr>
<tr>
<td></td>
<td>Freshwater sediments</td>
<td>552 mg/kg dry wt.</td>
</tr>
<tr>
<td></td>
<td>Marine sediments</td>
<td>552 mg/kg dry wt.</td>
</tr>
<tr>
<td></td>
<td>Microorganisms in sewage treatment</td>
<td>2251 mg/l</td>
</tr>
<tr>
<td></td>
<td>Soil (agricultural)</td>
<td>28 mg/kg dry wt.</td>
</tr>
</tbody>
</table>

#### 8.2. Exposure controls

**8.2.1. Engineering measures**

Use only in well-ventilated areas. If product is sprayed: 5 to 15 air changes per hour.

**8.2.2. Individual protection measures**

**Respiratory protection:** Not normally needed. If exposure limits are exceeded, use approved organic vapor respirator (e.g., EN filter type A-P2).
Protective gloves: Chemical resistant gloves

Isopropanol:

<table>
<thead>
<tr>
<th>Contact type</th>
<th>Glove material</th>
<th>Layer thickness</th>
<th>Breakthrough time*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full</td>
<td>Nitrile rubber</td>
<td>0.40mm</td>
<td>&gt;480 min.</td>
</tr>
<tr>
<td>Splash</td>
<td>Neoprene</td>
<td>0.65mm</td>
<td>&gt;120 min.</td>
</tr>
</tbody>
</table>

* Determined according to EN374 standard.

Eye and face protection: Safety goggles.

Other: Impervious clothing as necessary to prevent skin contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: dark brown
Initial boiling point: 100°C (212°F)
Melting point: not determined
% Volatile (by volume): 66%
Flash point: 34°C (93°F)
Method: PM Closed Cup
Viscosity: not determined
Autoignition temperature: not determined
Decomposition temperature: no data available
Upper/lower flammability or explosive limits: not determined
Flammability (solid, gas): not applicable
Explosive properties: not applicable
Odour: sweet odor
Odour threshold: not determined
Vapour pressure @ 20°C: not determined
% Aromatics by weight: 0%
pH: 1.5
Relative density: 1.07 kg/l
Weight per volume: 8.9 lbs/gal.
Coefficient (water/oil): > 1
Vapour density (air=1): > 1
Rate of evaporation (ether=1): < 1
Solubility in water: complete

9.2. Other information

None

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
Refer to sections 10.3 and 10.5.

10.2. Chemical stability
Stable

10.3. Possibility of hazardous reactions
No dangerous reactions known under conditions of normal use.

10.4. Conditions to avoid
Open flames and red hot surfaces.

10.5. Incompatible materials
Strong oxidizers like liquid Chlorine and concentrated Oxygen.

10.6. Hazardous decomposition products
Carbon Monoxide, Carbon Dioxide and other toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
Primary route of exposure under normal use:
Inhalation, skin and eye contact.
Acute toxicity -
Oral:

May be harmful if swallowed. ATE-mix = 4,673 mg/kg.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>LD50, rat</td>
<td>7,712 mg/kg</td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>Human lethal dose, estimated</td>
<td>1,400 – 1,600 mg/kg</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>LD50, rat</td>
<td>5,045 mg/kg</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>Human lethal dose</td>
<td>3,570 mg/kg</td>
</tr>
<tr>
<td>Tannic acid</td>
<td>LD50, rat</td>
<td>2,260 mg/kg</td>
</tr>
<tr>
<td>Tannic acid</td>
<td>LD50, rabbit</td>
<td>5,000 mg/kg</td>
</tr>
<tr>
<td>Phosphinic acid</td>
<td>LD50, rat, read-across</td>
<td>&gt; 2,000 mg/kg</td>
</tr>
<tr>
<td>Phosphinic acid</td>
<td>LD50, rat, OECD 401</td>
<td>&lt;= 5,000 mg/kg</td>
</tr>
<tr>
<td>Alcohols, C12-15, Ethoxylated Propoxylated</td>
<td>LD50, rat</td>
<td>1,400 mg/kg</td>
</tr>
</tbody>
</table>

Dermal:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>LD50 dermal, rabbit</td>
<td>&gt; 22,300 mg/kg (20 ml/kg)</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>LD50 dermal, rabbit</td>
<td>12,800 mg/kg</td>
</tr>
<tr>
<td>Tannic acid</td>
<td>LD50 dermal, mouse</td>
<td>5,000 mg/kg</td>
</tr>
</tbody>
</table>

Inhalation:

Excessive inhalation of vapor may result in dizziness, headache and other central nervous system effects.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol</td>
<td>LC50, rat</td>
<td>&gt; 20 mg/l</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>LC50 inhalation, rat, 4 hours</td>
<td>46.5 mg/l (vapor)</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Severe skin irritant; may cause burns.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphinic acid</td>
<td>OECD 435</td>
<td>Corrosive</td>
</tr>
</tbody>
</table>

Serious eye damage/irritation: Severe eye irritant; may cause burns.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>Eye irritation, rabbit</td>
<td>Moderate irritation</td>
</tr>
</tbody>
</table>

Respiratory or skin sensitisation:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>Skin sensitization, guinea pig (OECD 406)</td>
<td>Not sensitizing</td>
</tr>
</tbody>
</table>

Germ cell mutagenicity: Ethylene glycol, Isopropanol, Phosphinic acid: based on available data, the classification criteria are not met. Tannic acid, Phosphinic acid, barium salt: data lacking.

Carcinogenicity: This product contains no carcinogens as listed by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), the Occupational Safety and Health Administration (OSHA) or the European Chemicals Agency (ECHA).

Reproductive toxicity: Ethylene glycol, Isopropanol: based on available data, the classification criteria are not met. Tannic acid, Phosphinic acid, Phosphinic acid, barium salt: data lacking.

STOT – single exposure: Isopropanol: may cause drowsiness or dizziness. Ethylene glycol, Phosphinic acid, Phosphinic acid, barium salt: based on available data, the classification criteria are not met. Tannic acid: data lacking.

STOT – repeated exposure: Repeated overexposure to Ethylene Glycol can cause kidney and liver effects. Isopropanol, Phosphinic acid: based on available data, the classification criteria are not met. Tannic acid, Phosphinic acid, barium salt: data lacking.

Aspiration hazard: Not classified as an aspiration toxicant.

Other information: None known
SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. The information given below is based on a knowledge of the components and the ecotoxicology of similar substances.

12.1. Toxicity

Many aquatic species are intolerant of pH levels below 4. Tannic acid: 96 h LC50 (fish), 37 mg/l. Alcohols, C12-15, Ethoxylated Propoxylated: LC50/EC50 between 0.1 and 1 mg/l in the most sensitive species.

12.2. Persistence and degradability

Ethylene glycol, Isopropanol: oxidizes rapidly by photochemical reactions in air; inherently biodegradable. Phosphinic acid, Phosphinic acid, barium salt: inorganic substances. Alcohols, C12-15, Ethoxylated Propoxylated: readily biodegradable (OECD 301B, 28 days > 60%).

12.3. Bioaccumulative potential

Ethylene glycol, Isopropanol: low potential for bioaccumulation (BCF < 100).

12.4. Mobility in soil

Liquid. Soluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). Ethylene glycol, Isopropanol: expected to have very high mobility in soils.

12.5. Results of PBT and vPvB assessment

Not available

12.6. Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Incinerate or landfill absorbed material with a properly licensed facility. Treatment standards for ignitable, corrosive waste and barium must be met for disposal if applicable. Check local, state and national/federal regulations and comply with the most stringent requirement. This product is classified as a hazardous waste according to 2008/98/EC.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

<table>
<thead>
<tr>
<th>ADG/ADR/RID/ADN/IMDG/ICAO</th>
<th>TDG: UN2924</th>
</tr>
</thead>
<tbody>
<tr>
<td>US DOT: UN2924</td>
<td></td>
</tr>
</tbody>
</table>

14.2. UN proper shipping name

<table>
<thead>
<tr>
<th>ADG/ADR/RID/ADN/IMDG/ICAO</th>
<th>TDG: FLAMMABLE LIQUID, CORROSIVE N.O.S. (ISOPROPANOL / TANNIC ACID)</th>
</tr>
</thead>
<tbody>
<tr>
<td>US DOT: FLAMMABLE LIQUID, CORROSIVE N.O.S. (ISOPROPANOL / TANNIC ACID)</td>
<td></td>
</tr>
</tbody>
</table>

14.3. Transport hazard class(es)

<table>
<thead>
<tr>
<th>ADG/ADR/RID/ADN/IMDG/ICAO</th>
<th>TDG: 3, (8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>US DOT: 3, (8)</td>
<td></td>
</tr>
</tbody>
</table>

14.4. Packing group

| ADG/ADR/RID/ADN/IMDG/ICAO: III |
| TDG: III |
| US DOT: III |

14.5. Environmental hazards

NO ENVIRONMENTAL HAZARDS

14.6. Special precautions for user

NO SPECIAL PRECAUTIONS FOR USER

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

NOT APPLICABLE

14.8. Other information

| US DOT: ERG NO. 132 |
| May be shipped as Limited Quantities in packaging having a rated capacity gross weight of 66 lb. or less and in inner packages not over 5 Liters (49 CFR 173.150(b),(3)). |
| IMDG: EmS F-E, S-C, IMDG segregation group 1-Acids |
| ADR: Classification code FC , Tunnel restriction code (D/E) |
| ADG HAZCHEM CODE: ●3W HIN: 38 |
SECTION 15: REGULATORY INFORMATION

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

15.1.1. EU regulations

Authorisations under Title VII: Not applicable

Restrictions under Title VIII: None

Other EU regulations:
- Directive 94/33/EC on the protection of young people at work.

15.1.2. National regulations

US EPA SARA TITLE III

312 Hazards: 313 Chemicals:
- Flammable liquid
- Skin corrosion
- Serious eye damage
- Specific target organ toxicity – repeated exposure

312 Hazards:
- Flammable liquid
- Skin corrosion
- Serious eye damage
- Specific target organ toxicity – repeated exposure

313 Chemicals:
- Ethylene glycol 107-21-1 15-25%
- Phosphinic acid, barium salt 14871-79-5 1-2%

Other national regulations: National implementations of the EC Directives referred to in section 15.1.1.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms:
- ADG: Australian Dangerous Goods Code
- ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE: Acute Toxicity Estimate
- BCF: Bioconcentration Factor
- cATpE: Converted Acute Toxicity point Estimate
- CLP: Classification Labelling Packaging Regulation (1272/2008/EC)
- ES: Exposure Standard
- GHS: Globally Harmonized System
- ICAO: International Civil Aviation Organization
- IMDG: International Maritime Dangerous Goods
- LC50: Lethal Concentration to 50% of a test population
- LD50: Lethal Dose to 50% of a test population
- LOEL: Lowest Observed Effect Level
- N/A: Not Applicable
- NA: Not Available
- NOEC: No Observed Effect Concentration
- NOEL: No Observed Effect Level
- OECD: Organization for Economic Co-operation and Development
- PBT: Persistent, Bioaccumulative and Toxic substance
- (Q)SAR: Quantitative Structure-Activity Relationship
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (1907/2006/EC)
- REL: Recommended Exposure Limit
- RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
- SDS: Safety Data Sheet
- STEL: Short Term Exposure Limit
- STOT RE: Specific Target Organ Toxicity, Repeated Exposure
- STOT SE: Specific Target Organ Toxicity, Single Exposure
- TDG: Transportation of Dangerous Goods (Canada)
- TWA: Time Weighted Average
- US DOT: United States Department of Transportation
- vPvB: very Persistent and very Bioaccumulative substance
- WEL: Workplace Exposure Limit
- WHMIS: Workplace Hazardous Materials Information System

Other abbreviations and acronyms can be looked up at www.wikipedia.org.
Key literature references and sources for data:
- Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST)
- Chemical Classification and Information Database (CCID)
- European Chemicals Agency (ECHA) - Information on Chemicals
- Hazardous Chemical Information System (HCIS)
- National Institute of Technology and Evaluation (NITE)
- Swedish Chemicals Agency (KEMI)
- U.S. National Library of Medicine Toxicology Data Network (TOXNET)

Procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008 [CLP] / GHS:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flam. Liq. 3, H226</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Skin Corr. 1B, H314</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Eye Dam. 1, H318</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>STOT RE 2, H373</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

Relevant H-statements:
- H225: Highly flammable liquid and vapour.
- H302: Harmful if swallowed.
- H303: May be harmful if swallowed.
- H314: Causes severe skin burns and eye damage.
- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H319: Causes serious eye irritation.
- H332: Harmful if inhaled.
- H336: May cause drowsiness or dizziness.
- H373: May cause damage to organs through prolonged or repeated exposure.
- H400: Very toxic to aquatic life.
- H402: Harmful to aquatic life.

Hazard pictogram names:
- Flame, corrosion, health hazard

Further information:
- None

Date of last revision: 20 November 2019

Changes to the SDS in this revision:
- Sections 1.3, 2.1, 2.2, 3, 7.1, 8.1, 11, 12.1, 12.2, 15.1.2, 16.

This information is based solely on data provided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied regarding the suitability of the product for the user’s particular purpose. The user must make their own determination as to suitability.