SAFETY DATA SHEET

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

1.1. Product identification

Product Description: Sodium methoxide titrant
Cat No.: 419600000; 419601000; 419605000
Synonyms: Sodium methylate
Molecular Formula: C H₃ Na O

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use: Laboratory chemicals.
Sector of use: SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
Product category: PC21 - Laboratory chemicals
Process categories: PROC15 - Use as a laboratory reagent
Environmental release category: ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates)
Uses advised against: No Information available

1.3. Details of the supplier of the safety data sheet

Company
UK entity/business name: Fisher Scientific UK
Bishop Meadow Road, Loughborough,
Leicestershire LE11 5RG, United Kingdom

EU entity/business name: Acros Organics BVBA
Janssen Pharmaceuticaalaan 3a
2440 Geel, Belgium

E-mail address: begel.sdshq@thermofisher.com

1.4. Emergency telephone number

For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11
Emergency Number US: 001-201-796-7100 / Europe: +32 14 57 52 99
CHEMTREC Tel. No.US: 001-800-424-9300 / Europe: 001-703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008

Physical hazards
Flammable liquids: Category 2 (H225)

Health hazards
Acute oral toxicity: Category 3 (H301)
2.2. Label elements

**Signal Word**

**Danger**

**Hazard Statements**
- H225 - Highly flammable liquid and vapor
- H301 - Toxic if swallowed
- H311 - Toxic in contact with skin
- H331 - Toxic if inhaled
- H319 - Causes serious eye irritation
- H315 - Causes skin irritation
- H370 - Causes damage to organs

**Precautionary Statements**
- P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
- P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician
- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
- P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
- P311 - Call a POISON CENTER or doctor/ physician
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

2.3. Other hazards

Not applicable
Water reactive

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>EC-No.</th>
<th>Weight %</th>
<th>CLP Classification - Regulation (EC) No 1272/2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>67-56-1</td>
<td>200-659-6</td>
<td>97.98</td>
<td>Flam. Liq. 2 (H225)</td>
</tr>
</tbody>
</table>

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Sodium methoxide titrant

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<table>
<thead>
<tr>
<th>Acute Tox. 3 (H301)</th>
<th>Acute Tox. 3 (H311)</th>
<th>Acute Tox. 3 (H331)</th>
<th>STOT SE 1 (H370)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium methoxide</td>
<td>124-41-4</td>
<td>EEC No. 204-699-5</td>
<td>2-3</td>
</tr>
</tbody>
</table>

Skin Corr. 1A (H314)  
Eye Dam. 1 (H318)  
Acute Tox. 4 (H302)  
Self-heat. 1 (H251)  
Flam. Sol. 1 (H228)  
Met. Corr. 1 (H290)  
EUH014

Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice
Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye Contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact
Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Ingestion
Do not induce vomiting. Call a physician or Poison Control Center immediately.

Inhalation
Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

Self-Protection of the First Aider
Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

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

Breathing difficulties. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

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

Notes to Physician
Treat symptomatically. Symptoms may be delayed.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media
CO₂, dry chemical, dry sand, alcohol-resistant foam. Cool closed containers exposed to fire with water spray.

Extinguishing media which must not be used for safety reasons
Water.

5.2. Special hazards arising from the substance or mixture
Sodium methoxide titrant

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
Carbon monoxide (CO), Carbon dioxide (CO₂).

5.3. Advice for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Evacuate personnel to safe areas. Remove all sources of ignition. Take precautionary measures against static discharges. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing.

6.2. Environmental precautions
Avoid release to the environment. See Section 12 for additional ecological information.

6.3. Methods and material for containment and cleaning up
Remove all sources of ignition. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Use spark-proof tools and explosion-proof equipment.

6.4. Reference to other sections
Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
Use only under a chemical fume hood. Wear personal protective equipment. Use spark-proof tools and explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist. Do not ingest.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Flammables area.

7.3. Specific end use(s)
Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
SAFETY DATA SHEET

8.1. Control parameters

Exposure limits

<table>
<thead>
<tr>
<th>Component</th>
<th>The United Kingdom</th>
<th>European Union</th>
<th>Ireland</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>WEL - TWA: 200 ppm TWA; 266 mg/m³ TWA WEL - STEL: 250 ppm STEL; 333 mg/m³ STEL</td>
<td>TWA: 200 ppm 8 hr TWA: 260 mg/m³ 8 hr Skin</td>
<td>TWA: 200 ppm 8 hr TWA: 280 mg/m³ 8 hr STEL: 600 ppm 15 min STEL: 780 mg/m³ 15 min Skin</td>
</tr>
</tbody>
</table>

Biological limit values
List source(s):

Monitoring methods
BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
MDHS70 General methods for sampling airborne gases and vapours
MDHS 88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas chromatography
MDHS 96 Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, solvent desorption and gas chromatography

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Measures
Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.
Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment
Eye Protection Goggles (European standard - EN 166)
Hand Protection Protective gloves

<table>
<thead>
<tr>
<th>Glove material</th>
<th>Breakthrough time</th>
<th>Glove thickness</th>
<th>EU standard</th>
<th>Glove comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrile rubber</td>
<td>See manufacturers</td>
<td>-</td>
<td>EN 374</td>
<td>(minimum requirement)</td>
</tr>
<tr>
<td>Viton (R)</td>
<td>recommendations</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure
Inspect gloves before use.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.
(Refer to manufacturer/supplier for information)
Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.
Remove gloves with care avoiding skin contamination.

Respiratory Protection
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly

Large scale/emergency use
Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced
**Recommended Filter type:** low boiling organic solvent Type AX Brown conforming to EN371

Small scale/Laboratory use
Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
**Recommended half mask:** Valve filtering: EN405; or; Half mask: EN140; plus filter, EN 141
When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls
No information available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Component</th>
<th>Physical Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Colorless</td>
<td></td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>-98 °C / -144.4 °F</td>
<td></td>
</tr>
<tr>
<td>Softening Point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>65 °C / 149 °F</td>
<td>@ 760 mmHg</td>
</tr>
<tr>
<td>Flash Point</td>
<td>11 °C / 51.8 °F</td>
<td>Method - No information available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid,gas)</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Explosion Limits</td>
<td>Lower 5.5 vol%</td>
<td>Liquid</td>
</tr>
<tr>
<td></td>
<td>Upper 44 vol%</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No data available</td>
<td>(Air = 1.0)</td>
</tr>
<tr>
<td>Specific Gravity / Density</td>
<td>0.800</td>
<td></td>
</tr>
<tr>
<td>Bulk Density</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Reacts with water</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient (n-octanol/water)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Component</td>
<td>log Pow</td>
<td></td>
</tr>
<tr>
<td>Methyl alcohol</td>
<td>-0.74</td>
<td></td>
</tr>
<tr>
<td>Sodium methoxide</td>
<td>-0.75</td>
<td></td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>455 °C / 851 °F</td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>No information available</td>
<td>Vapors may form explosive mixtures with air</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

ACR41960
9.2. Other information

Molecular Formula  C H₃ Na O
Molecular Weight  54.02

---

**SECTION 10: STABILITY AND REACTIVITY**

**10.1. Reactivity**
None known, based on information available

**10.2. Chemical stability**
Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Hazardous Polymerization
Hazardous polymerization does not occur.

Hazardous Reactions
None under normal processing.

**10.4. Conditions to avoid**

**10.5. Incompatible materials**
Strong oxidizing agents.

**10.6. Hazardous decomposition products**
Carbon monoxide (CO). Carbon dioxide (CO₂).

---

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

Product Information

(a) acute toxicity;
Oral Category 3
Dermal Category 3
Inhalation Category 3

(b) skin corrosion/irritation;  Category 2
(c) serious eye damage/irritation;  Category 2
(d) respiratory or skin sensitization;
Respiratory Based on available data, the classification criteria are not met
Skin Based on available data, the classification criteria are not met

---

<table>
<thead>
<tr>
<th>Component</th>
<th>LD₅₀ Oral</th>
<th>LD₅₀ Dermal</th>
<th>LC₅₀ Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>Calc. ATE 60 mg/kg ( Rat )</td>
<td>LD₅₀ &gt; 1187 – 2769 mg/kg ( Rat )</td>
<td>Calc. ATE 60 mg/kg ( Rabbit )</td>
</tr>
<tr>
<td>Sodium methoxide</td>
<td>1687 mg/kg ( Rat )</td>
<td>&gt;2000 mg/kg ( Rat )</td>
<td>Calc. ATE 0.6 mg/L ( vapours) or 0.5 mg/L ( mists)</td>
</tr>
</tbody>
</table>
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(e) germ cell mutagenicity; Based on available data, the classification criteria are not met
Mutagenic effects have occurred in humans

(f) carcinogenicity; Based on available data, the classification criteria are not met
There are no known carcinogenic chemicals in this product

(g) reproductive toxicity;
Reproductive Effects Based on available data, the classification criteria are not met
Experiments have shown reproductive toxicity effects on laboratory animals.
Developmental Effects Developmental effects have occurred in experimental animals. Component substance is listed on California Proposition 65 as a developmental hazard.
Teratogenicity Teratogenic effects have occurred in experimental animals.

(h) STOT-single exposure; Category 1

(i) STOT-repeated exposure; Based on available data, the classification criteria are not met
Target Organs Optic nerve, Respiratory system, Eyes, Skin, Central nervous system (CNS), Blood, Liver, Kidney, spleen, Gastrointestinal tract (GI).

(j) aspiration hazard; Based on available data, the classification criteria are not met
Other Adverse Effects See actual entry in RTECS for complete information The toxicological properties have not been fully investigated.

Symptoms / effects, both acute and delayed Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity Ecotoxicity effects This product contains the following substance(s) which are hazardous for the environment.

<table>
<thead>
<tr>
<th>Component</th>
<th>Freshwater Fish</th>
<th>Water Flea</th>
<th>Freshwater Algae</th>
<th>Microtox</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>Pimephales promelas: LC50 &gt; 10000 mg/L 96h</td>
<td>EC50 &gt; 10000 mg/L 24h</td>
<td>EC50 = 39000 mg/L 25 min</td>
<td>EC50 = 40000 mg/L 15 min</td>
</tr>
<tr>
<td>Sodium methoxide</td>
<td>LC50: = 346 mg/L, 48h static (Leuciscus idus)</td>
<td></td>
<td></td>
<td>EC50 = 43000 mg/L 5 min</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability No information available
Persistence Persistence is unlikely, based on information available.
Degradability Reacts with water.
Degradation in sewage Water reactive.
Degradation in sewage treatment plant

12.3. Bioaccumulative potential Bioaccumulation is unlikely

<table>
<thead>
<tr>
<th>Component</th>
<th>log Pow</th>
<th>Bioconcentration factor (BCF)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

Sodium methoxide titrant

|                              | Methyl alcohol | -0.74 | <10
|-------------------------------|----------------|-------|-----
| Sodium methoxide             | -0.75          |       |     
| No data available            |                |       |     |

12.4. Mobility in soil
The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. Will likely be mobile in the environment due to its volatility. Disperses rapidly in air.

12.5. Results of PBT and vPvB assessment
Not applicable. Water reactive.

12.6. Other adverse effects
- Endocrine Disruptor Information
  This product does not contain any known or suspected endocrine disruptors
- Persistent Organic Pollutant
  This product does not contain any known or suspected substance
- Ozone Depletion Potential
  This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
- Waste from Residues / Unused Products
  Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.
- Contaminated Packaging
  Dispose of this container to hazardous or special waste collection point. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and empty container away from heat and sources of ignition.
- European Waste Catalogue (EWC)
  According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
  Waste codes should be assigned by the user based on the application for which the product was used. Do not dispose of waste into sewer. Can be incinerated, when in compliance with local regulations.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

14.1. UN number
UN1992
14.2. UN proper shipping name
Flammable liquid, toxic, n.o.s
14.3. Transport hazard class(es)
3
  Subsidiary Hazard Class
  6.1
14.4. Packing group
II

ADR

14.1. UN number
UN1992
14.2. UN proper shipping name
Flammable liquid, toxic, n.o.s
14.3. Transport hazard class(es)
3
  Subsidiary Hazard Class
  6.1
14.4. Packing group
II

IATA

14.1. UN number
UN1992
14.2. UN proper shipping name
Flammable liquid, toxic, n.o.s
14.3. Transport hazard class(es)
3
  Subsidiary Hazard Class
  6.1
14.4. Packing group
II
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14.5. Environmental hazards
No hazards identified

14.6. Special precautions for user
No special precautions required

14.7. Transport in bulk according to
Annex II of MARPOL73/78 and the IBC Code
Not applicable, packaged goods

SECTION 15: REGULATORY INFORMATION

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

International Inventories

<table>
<thead>
<tr>
<th>Component</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>NLP</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>PICCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>AICS</th>
<th>KECL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>200-659-6</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>KE-2319 3</td>
</tr>
<tr>
<td>Sodium methoxide</td>
<td>204-699-5</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>KE-2319 6</td>
</tr>
</tbody>
</table>

Component

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>Use restricted. See item 69. (see <a href="http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32006R1907:EN:NOT">http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32006R1907:EN:NOT</a> for restriction details)</td>
<td></td>
</tr>
</tbody>
</table>

Component

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>500 tonne</td>
</tr>
</tbody>
</table>

National Regulations

<table>
<thead>
<tr>
<th>Component</th>
<th>Germany - Water Classification (VwVwS)</th>
<th>Germany - TA-Luft Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>WGK 1</td>
<td></td>
</tr>
<tr>
<td>Sodium methoxide</td>
<td>WGK 1</td>
<td>WGK 2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>France - INRS (Tables of occupational diseases)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>Tableaux des maladies professionnelles (TMP) - RG 84</td>
<td></td>
</tr>
</tbody>
</table>

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.

15.2. Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H225 - Highly flammable liquid and vapor
H228 - Flammable solid
H251 - Self-heating; may catch fire
H290 - May be corrosive to metals
H301 - Toxic if swallowed
H311 - Toxic in contact with skin
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H331 - Toxic if inhaled
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H370 - Causes damage to organs
EUH014 - Reacts violently with water
H302 - Harmful if swallowed

Legend

CAS - Chemical Abstracts Service
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
IECSC - Chinese Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

WEL - Workplace Exposure Limit
ACGIH - American Conference of Governmental Industrial Hygienists
DNEL - Derived No Effect Level
RPE - Respiratory Protective Equipment
LC50 - Lethal Concentration 50%
NOEC - No Observed Effect Concentration
PBT - Persistent, Bioaccumulative, Toxic

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road
IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code
OECD - Organisation for Economic Co-operation and Development
BCF - Bioconcentration factor

Key literature references and sources for data
Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:
Physical hazards On basis of test data
Health Hazards Calculation method
Environmental hazards Calculation method

Training Advice
Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.
First aid for chemical exposure, including the use of eye wash and safety showers.

Fire prevention and fighting, identifying hazards and risks, static electricity, explosive atmospheres posed by vapours and dusts.

Chemical incident response training.

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This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer
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End of Safety Data Sheet