

Creation Date 20-Sep-2010

Revision Date 11-Mar-2019

Revision Number 7

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

### 1.1. Product identification

**Product Description:** DL-1-Amino-2-propanol, contains approx. 5% 2-Amino-1-propanol  
**Cat No. :** 149650000; 149650010; 149650025; 149650250  
**Synonyms** DL-Isopropanolamine  
**CAS-No** 78-96-6  
**EC-No.** 201-162-7  
**Molecular Formula** C3 H9 N O

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

**Recommended Use** Laboratory chemicals.  
**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 Pharmaceuticaaan 3a  
2440 Geel, Belgium

**E-mail address** [begel.sdsdesk@thermofisher.com](mailto:begel.sdsdesk@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

Based on available data, the classification criteria are not met

##### Health hazards

|                                   |                     |
|-----------------------------------|---------------------|
| Acute dermal toxicity             | Category 4 (H312)   |
| Skin Corrosion/irritation         | Category 1 B (H314) |
| Serious Eye Damage/Eye Irritation | Category 1 (H318)   |

# SAFETY DATA SHEET

DL-1-Amino-2-propanol, contains approx. 5% 2-Amino-1-propanol

Revision Date 11-Mar-2019

## Environmental hazards

Based on available data, the classification criteria are not met

## 2.2. Label elements



Signal Word

Danger

## Hazard Statements

H312 - Harmful in contact with skin  
H314 - Causes severe skin burns and eye damage  
Combustible liquid

## Precautionary Statements

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection  
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower  
P305 + P351 + P338 - 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/ physician

## 2.3. Other hazards

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

| Component                     | CAS-No    | EC-No.            | Weight % | CLP Classification - Regulation (EC) No 1272/2008                |
|-------------------------------|-----------|-------------------|----------|--|
| 1-Propanol, 2-amino-, (.+.-)- | 6168-72-5 | EEC No. 228-207-3 | <6       | Skin Corr. 1B (H314)<br>Eye Dam. 1 (H318)                        |
| Isopropanolamine              | 78-96-6   | EEC No. 201-162-7 | >94      | Skin Corr. 1B (H314)<br>Eye Dam. 1 (H318)<br>Acute Tox. 4 (H312) |

Full text of Hazard Statements: see section 16

## SECTION 4: FIRST AID MEASURES

# SAFETY DATA SHEET

DL-1-Amino-2-propanol, contains approx. 5% 2-Amino-1-propanol

Revision Date 11-Mar-2019

## 4.1. Description of first aid measures

|   |  |
|---|--|
| <b>General Advice</b>                     | Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.  |
| <b>Eye Contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.  |
| <b>Skin Contact</b>                       | Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Call a physician immediately.  |
| <b>Ingestion</b>                          | Do not induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately.   |
| <b>Inhalation</b>                         | If not breathing, give artificial respiration. Remove from exposure, lie down. 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. Call a physician immediately. |
| <b>Self-Protection of the First Aider</b> | 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

Causes burns by all exposure routes. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting; Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

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

**Notes to Physician** Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

CO<sub>2</sub>, 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**

No information available.

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

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes.

#### **Hazardous Combustion Products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

### 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. Thermal decomposition can lead to release of irritating gases and vapors.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

# SAFETY DATA SHEET

DL-1-Amino-2-propanol, contains approx. 5% 2-Amino-1-propanol

Revision Date 11-Mar-2019

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

Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

## 6.2. Environmental precautions

Should not be released into the environment.

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

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

## 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

Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe vapors or spray mist. Do not ingest.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

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

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Keep away from heat and sources of ignition.

### 7.3. Specific end use(s)

Use in laboratories

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### **Exposure limits**

List source(s):

#### **Biological limit values**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

#### **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

**Derived No Effect Level (DNEL)** No information available

# SAFETY DATA SHEET

DL-1-Amino-2-propanol, contains approx. 5% 2-Amino-1-propanol

Revision Date 11-Mar-2019

| <u>Route of exposure</u>     | Acute effects (local) | Acute effects (systemic) | Chronic effects (local) | Chronic effects (systemic) |
|------------------------------|-----------------------|--------------------------|-------------------------|----------------------------|
| Oral<br>Dermal<br>Inhalation |                       |                          |                         |                            |

**Predicted No Effect Concentration (PNEC)** No information available.

## 8.2. Exposure controls

### Engineering Measures

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure adequate ventilation, especially in confined areas. 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

| Glove material | Breakthrough time                 | Glove thickness | EU standard | Glove comments        |
|----------------|-----------------------------------|-----------------|-------------|-----------------------|
| Natural rubber | See manufacturers recommendations | -               | EN 374      | (minimum requirement) |
| Nitrile rubber |                                   |                 |             |                       |
| Neoprene       |                                   |                 |             |                       |
| PVC            |                                   |                 |             |                       |

**Skin and body protection** Long sleeved clothing

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** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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:** Particulates filter conforming to EN 143 Ammonia and organic ammonia derivatives filter Type K Green conforming to EN14387

**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** Prevent product from entering drains.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

# SAFETY DATA SHEET

DL-1-Amino-2-propanol, contains approx. 5% 2-Amino-1-propanol

Revision Date 11-Mar-2019

## 9.1. Information on basic physical and chemical properties

|  |   |  |
|--|---|--|
| <b>Appearance</b>                              | Colorless                                       |  |
| <b>Physical State</b>                          | Liquid  |  |
| <b>Odor</b>                                    | rotten-egg like                                 |  |
| <b>Odor Threshold</b>                          | No data available                               |  |
| <b>pH</b>                                      | 12  | 50 g/l aq. sol                           |
| <b>Melting Point/Range</b>                     | -2 °C / 28.4 °F                                 |  |
| <b>Softening Point</b>                         | No data available                               |  |
| <b>Boiling Point/Range</b>                     | 161 °C / 321.8 °F                               | @ 760 mmHg                               |
| <b>Flash Point</b>                             | 71 °C / 159.8 °F                                | <b>Method</b> - No information available |
| <b>Evaporation Rate</b>                        | No data available                               |  |
| <b>Flammability (solid,gas)</b>                | Not applicable                                  | Liquid                                   |
| <b>Explosion Limits</b>                        | <b>Lower</b> 1.9 vol%<br><b>Upper</b> 10.4 vol% |  |
| <b>Vapor Pressure</b>                          | 1.3 mbar @ 20 °C                                |  |
| <b>Vapor Density</b>                           | 2.6 (Air = 1.0)                                 | (Air = 1.0)                              |
| <b>Specific Gravity / Density</b>              | 0.960   |  |
| <b>Bulk Density</b>                            | Not applicable                                  | Liquid                                   |
| <b>Water Solubility</b>                        | Completely soluble                              |  |
| <b>Solubility in other solvents</b>            | No information available                        |  |
| <b>Partition Coefficient (n-octanol/water)</b> |   |  |
| <b>Component</b>                               | <b>log Pow</b>                                  |  |
| 1-Propanol, 2-amino-, (.+.-)-                  | -1.19   |  |
| Isopropanolamine                               | -0.94   |  |
| <b>Autoignition Temperature</b>                | 375 °C / 707 °F                                 |  |
| <b>Decomposition Temperature</b>               | No data available                               |  |
| <b>Viscosity</b>                               | 31 mPa.s at 20 °C                               |  |
| <b>Explosive Properties</b>                    | No information available                        | explosive air/vapour mixtures possible   |
| <b>Oxidizing Properties</b>                    | No information available                        |  |

## 9.2. Other information

|                          |           |
|--------------------------|-----------|
| <b>Molecular Formula</b> | C3 H9 N O |
| <b>Molecular Weight</b>  | 75.11     |

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

None known, based on information available

### 10.2. Chemical stability

Stable under normal conditions, Hygroscopic, Air sensitive.

### 10.3. Possibility of hazardous reactions

|                                 |  |
|---------------------------------|--|
| <b>Hazardous Polymerization</b> | Hazardous polymerization does not occur. |
| <b>Hazardous Reactions</b>      | None under normal processing.            |

### 10.4. Conditions to avoid

Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition. Exposure to air.

### 10.5. Incompatible materials

Strong oxidizing agents.

# SAFETY DATA SHEET

DL-1-Amino-2-propanol, contains approx. 5% 2-Amino-1-propanol

Revision Date 11-Mar-2019

## 10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Product Information

##### (a) acute toxicity;

|            |                   |
|------------|-------------------|
| Oral       | No data available |
| Dermal     | No data available |
| Inhalation | No data available |

#### Toxicology data for the components

| Component        | LD50 Oral          | LD50 Dermal                                  | LC50 Inhalation |
|------------------|--------------------|--|-----------------|
| Isopropanolamine | 2813 mg/kg ( Rat ) | 1560 mg/kg ( Rabbit )<br>1851 mg/kg (Rabbit) |                 |

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

##### (d) respiratory or skin sensitization;

|             |                   |
|-------------|-------------------|
| Respiratory | No data available |
| Skin        | No data available |

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs None known.

(j) aspiration hazard; No data available

**Symptoms / effects, both acute and delayed** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### Ecotoxicity effects

Contains a substance which is: Harmful to aquatic organisms. The product contains

# SAFETY DATA SHEET

DL-1-Amino-2-propanol, contains approx. 5% 2-Amino-1-propanol

Revision Date 11-Mar-2019

following substances which are hazardous for the environment.

| Component        | Freshwater Fish  | Water Flea                                      | Freshwater Algae                               | Microtox               |
|------------------|--|---|--|------------------------|
| Isopropanolamine | LC50: 2390 - 2650 mg/L, 96h flow-through (Pimephales promelas) | EC50: = 108.82 mg/L, 48h (Daphnia magna Straus) | EC50: = 23 mg/L, 72h (Desmodesmus subspicatus) | EC50 = 27.2 mg/L 5 min |

**12.2. Persistence and degradability** Readily biodegradable  
**Persistence** Persistence is unlikely.  
**Degradation in sewage treatment plant** Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.

**12.3. Bioaccumulative potential** Bioaccumulation is unlikely

| Component                    | log Pow | Bioconcentration factor (BCF) |
|------------------------------|---------|-------------------------------|
| 1-Propanol, 2-amino-, (.+.)- | -1.19   | No data available             |
| Isopropanolamine             | -0.94   | No data available             |

**12.4. Mobility in soil** The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility. Highly mobile in soils

**12.5. Results of PBT and vPvB assessment** No data available for assessment.

**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.

**European Waste Catalogue (EWC)** According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

**Other Information** Do not dispose of waste into sewer. Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Large amounts will affect pH and harm aquatic organisms. Solutions with high pH-value must be neutralized before discharge.

## SECTION 14: TRANSPORT INFORMATION

### IMDG/IMO

**14.1. UN number** UN2735  
**14.2. UN proper shipping name** AMINES, LIQUID, CORROSIVE, N.O.S  
**Technical Shipping Name** DL-1-Amino-2-propanol  
**14.3. Transport hazard class(es)** 8  
**14.4. Packing group** II



# SAFETY DATA SHEET

DL-1-Amino-2-propanol, contains approx. 5% 2-Amino-1-propanol

Revision Date 11-Mar-2019

## ADR

|   |                                  |
|---|----------------------------------|
| <b>14.1. UN number</b>                  | UN2735                           |
| <b>14.2. UN proper shipping name</b>    | AMINES, LIQUID, CORROSIVE, N.O.S |
| <b>Technical Shipping Name</b>          | DL-1-Amino-2-propanol            |
| <b>14.3. Transport hazard class(es)</b> | 8                                |
| <b>14.4. Packing group</b>              | II                               |

## IATA

|   |                                    |
|---|------------------------------------|
| <b>14.1. UN number</b>                  | UN2735                             |
| <b>14.2. UN proper shipping name</b>    | AMINES, LIQUID, CORROSIVE, N.O.S.* |
| <b>Technical Shipping Name</b>          | DL-1-Amino-2-propanol              |
| <b>14.3. Transport hazard class(es)</b> | 8                                  |
| <b>14.4. Packing group</b>              | II                                 |

**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

The product is classified and labeled according to EC directives or corresponding national laws, The product is classified and labeled in accordance with Directive 1999/45/EC, See Componets SDS's, Europe, China, Canada, TSCA, Japan, X = listed, Australia, U.S.A. (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (ECL), China (IECSC), Japan (ENCS), Philippines (PICCS), Complete Regulatory Information contained in following SDS's.

| Component                     | EINECS    | ELINCS | NLP | TSCA | DSL | NDSL | PICCS | ENCS | IECSC | AICS | KECL         |
|-------------------------------|-----------|--------|-----|------|-----|------|-------|------|-------|------|--------------|
| 1-Propanol, 2-amino-, (+.-.)- | 228-207-3 | -      |     | X    | -   | X    | -     | X    | X     | X    | -            |
| Isopropanolamine              | 201-162-7 | -      |     | X    | X   | -    | X     | X    | X     | X    | KE-2550<br>6 |

#### National Regulations

| Component                     | Germany - Water Classification (VwVwS) | Germany - TA-Luft Class |
|-------------------------------|--|-------------------------|
| 1-Propanol, 2-amino-, (+.-.)- | WGK 1                                  |                         |
| Isopropanolamine              | WGK 1                                  |                         |

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**

# SAFETY DATA SHEET

DL-1-Amino-2-propanol, contains approx. 5% 2-Amino-1-propanol

Revision Date 11-Mar-2019

H312 - Harmful in contact with skin  
H314 - Causes severe skin burns and eye damage  
H318 - Causes serious eye damage

## 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

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japanese Existing and New Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

**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

**TWA** - Time Weighted Average

**IARC** - International Agency for Research on Cancer

**PNEC** - Predicted No Effect Concentration

**LD50** - Lethal Dose 50%

**EC50** - Effective Concentration 50%

**POW** - Partition coefficient Octanol:Water

**vPvB** - very Persistent, very Bioaccumulative

**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

**ICAO/IATA** - International Civil Aviation Organization/International Air Transport Association

**MARPOL** - International Convention for the Prevention of Pollution from Ships

**ATE** - Acute Toxicity Estimate

**VOC** - Volatile Organic Compounds

## **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.

**Creation Date** 20-Sep-2010

**Revision Date** 11-Mar-2019

**Revision Summary** SDS sections updated, 2, 4.

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

### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## **End of Safety Data Sheet**