

Creation Date 19-Sep-2014

Revision Date 11-Jul-2016

Revision Number 8

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identification**

**Product Description:** Mercury(II) nitrate monohydrate  
**Cat No. :** M/3012/48  
**Synonyms** Nitric acid, mercury(2+) salt, monohydrate; Mercuric nitrate monohydrate.  
**CAS-No** 7783-34-8  
**EC-No.** 233-152-3  
**Molecular Formula** Hg N2 O6 . H2 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** Fisher Scientific UK  
Bishop Meadow Road, Loughborough,  
Leicestershire LE11 5RG, United Kingdom  
**E-mail address** begel.sdsdesk@thermofisher.com

**1.4. Emergency telephone number**

Tel: 01509 231166  
Chemtrec US: (800) 424-9300  
Chemtrec EU: 001 (202) 483-7616

**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 oral toxicity                                  | Category 2 (H300) |
| Acute dermal toxicity                                | Category 1 (H310) |
| Acute Inhalation Toxicity - Dusts and Mists          | Category 2 (H330) |
| Specific target organ toxicity - (repeated exposure) | Category 2 (H373) |

**Environmental hazards**

|                          |                   |
|--------------------------|-------------------|
| Acute aquatic toxicity   | Category 1 (H400) |
| Chronic aquatic toxicity | Category 1 (H410) |

**2.2. Label elements**

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Signal Word

Danger

## Hazard Statements

- H300 - Fatal if swallowed
- H310 - Fatal in contact with skin
- H330 - Fatal if inhaled
- H373 - May cause damage to organs through prolonged or repeated exposure
- H410 - Very toxic to aquatic life with long lasting effects

## Precautionary Statements

- P330 - Rinse mouth
- P280 - Wear protective gloves/ protective clothing
- P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water
- P310 - Immediately call a POISON CENTER or doctor/ physician
- P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

## 2.3. Other hazards

Water reactive

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

| Component                         | CAS-No     | EC-No.            | Weight % | CLP Classification - Regulation (EC) No 1272/2008   |
|-----------------------------------|------------|-------------------|----------|---|
| Mercury (II) nitrate, monohydrate | 7783-34-8  |                   | >95      | Acute Tox. 2 (H330)<br>Acute Tox. 2 (H300)<br>Acute Tox. 1 (H310)<br>STOT RE 2 (H373)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) |
| Mercuric nitrate                  | 10045-94-0 | EEC No. 233-152-3 | -        | Acute Tox. 2 (H330)<br>Acute Tox. 2 (H300)<br>Acute Tox. 1 (H310)<br>STOT RE 2 (H373)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) |

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

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

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|                                   |  |
|-----------------------------------|--|
| <b>Skin Contact</b>               | Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.  |
| <b>Ingestion</b>                  | Do not induce vomiting. Call a physician or Poison Control Center immediately.   |
| <b>Inhalation</b>                 | Move to fresh air. If not breathing, give artificial respiration. 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. |
| <b>Protection of First-aiders</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**

None reasonably foreseeable.

#### **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**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

##### **Extinguishing media which must not be used for safety reasons**

No information available.

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

Very toxic. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Do not allow run-off from fire fighting to enter drains or water courses.

##### **Hazardous Combustion Products**

Nitrogen oxides (NO<sub>x</sub>), Mercury oxide.

#### **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**

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

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

#### **6.2. Environmental precautions**

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment.

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

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

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## 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. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe vapors/dust. 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 in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from direct sunlight.

### 7.3. Specific end use(s)

Use in laboratories

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Exposure limits

List source(s): **UK** - EH40/2005 Containing the workplace exposure limits (WELs) for use with the Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended). Updated by September 2006 official press release and October 2007 Supplement.

| Component                         | European Union | The United Kingdom               | France   | Belgium | Spain  |
|-----------------------------------|----------------|----------------------------------|--|---------|--|
| Mercury (II) nitrate, monohydrate |                | TWA: 0.02 mg/m <sup>3</sup> 8 hr | TWA / VME: 0.1 mg/m <sup>3</sup> (8 heures).<br>Peau |         | TWA / VLA-ED: 0.02 mg/m <sup>3</sup> (8 horas) |
| Mercuric nitrate                  |                | TWA: 0.02 mg/m <sup>3</sup> 8 hr | TWA / VME: 0.1 mg/m <sup>3</sup> (8 heures).<br>Peau |         | TWA / VLA-ED: 0.02 mg/m <sup>3</sup> (8 horas) |

| Component                         | Italy | Germany   | Portugal  | The Netherlands | Finland                                    |
|-----------------------------------|-------|---|---|-----------------|--|
| Mercury (II) nitrate, monohydrate | Pelle | TWA: 0.02 mg/m <sup>3</sup> (8 Stunden). AGW - exposure factor 8<br>TWA: 0.02 mg/m <sup>3</sup> (8 Stunden). MAK<br>Höhepunkt: 0.16 mg/m <sup>3</sup><br>Haut | TWA: 0.025 mg/m <sup>3</sup> 8 horas<br>TWA: 0.02 mg/m <sup>3</sup> 8 horas<br>Pele |                 |  |
| Mercuric nitrate                  | Pelle | TWA: 0.02 mg/m <sup>3</sup> (8 Stunden). AGW - exposure factor 8<br>TWA: 0.02 mg/m <sup>3</sup> (8 Stunden). MAK<br>Höhepunkt: 0.16 mg/m <sup>3</sup><br>Haut | TWA: 0.025 mg/m <sup>3</sup> 8 horas<br>TWA: 0.02 mg/m <sup>3</sup> 8 horas<br>Pele |                 | TWA: 0.02 mg/m <sup>3</sup> 8 tunteina lho |

| Component                         | Austria   | Denmark | Switzerland   | Poland | Norway                              |
|-----------------------------------|---|---------|---|--------|-------------------------------------|
| Mercury (II) nitrate, monohydrate | Haut<br>MAK-KZW: 0.08 mg/m <sup>3</sup> 15 Minuten<br>MAK-TMW: 0.02 mg/m <sup>3</sup> 8 Stunden |         | Haut/Peau<br>STEL: 0.16 mg/m <sup>3</sup> 15 Minuten<br>TWA: 0.02 mg/m <sup>3</sup> 8 Stunden |        | TWA: 0.02 mg/m <sup>3</sup> 8 timer |
| Mercuric nitrate                  | Haut  |         | Haut/Peau   |        | TWA: 0.02 mg/m <sup>3</sup> 8       |

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|  |   |  |  |  |       |
|--|---|--|--|--|-------|
|  | MAK-KZW: 0.08 mg/m <sup>3</sup><br>15 Minuten<br>MAK-TMW: 0.02 mg/m <sup>3</sup><br>8 Stunden |  | STEL: 0.16 mg/m <sup>3</sup> 15<br>Minuten<br>TWA: 0.02 mg/m <sup>3</sup> 8<br>Stunden |  | timer |
|--|---|--|--|--|-------|

## 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.

MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

MDHS16/2 Mercury and its inorganic divalent compounds in air Laboratory method using Hydrar diffusive badges or pumped sorbent tubes, acid dissolution and analysis by cold vapour atomic absorption spectrometry or cold vapour atomic fluorescence spectrometry

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

| <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 adequate ventilation, especially in confined areas. 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

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

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|  |  |
|--|--|
|  | To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly  |
| <b>Large scale/emergency use</b>       | Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced  |
| <b>Small scale/Laboratory use</b>      | <b>Recommended Filter type:</b> Particulates filter conforming to EN 143<br>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.<br><b>Recommended half mask:-</b> Particle filtering: EN149:2001<br>When RPE is used a face piece Fit Test should be conducted |
| <b>Environmental exposure controls</b> | Prevent product from entering drains. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.  |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

|  |                               |  |
|--|-------------------------------|--|
| <b>Appearance</b>                              | Off-white                     |  |
| <b>Physical State</b>                          | Powder Solid                  |  |
| <b>Odor</b>                                    | slight nitric                 |  |
| <b>Odor Threshold</b>                          | No data available             |  |
| <b>pH</b>                                      | 3                             |  |
| <b>Melting Point/Range</b>                     | 77 - 79 °C / 170.6 - 174.2 °F |  |
| <b>Softening Point</b>                         | No data available             |  |
| <b>Boiling Point/Range</b>                     | No information available      |  |
| <b>Flash Point</b>                             | No information available      | <b>Method -</b> No information available |
| <b>Evaporation Rate</b>                        | Not applicable                | Solid                                    |
| <b>Flammability (solid,gas)</b>                | No information available      |  |
| <b>Explosion Limits</b>                        | No data available             |  |
| <b>Vapor Pressure</b>                          | No information available      |  |
| <b>Vapor Density</b>                           | Not applicable                | Solid                                    |
| <b>Specific Gravity / Density</b>              | 4.39                          |  |
| <b>Bulk Density</b>                            | No data available             |  |
| <b>Water Solubility</b>                        | soluble hydrolyses            |  |
| <b>Solubility in other solvents</b>            | No information available      |  |
| <b>Partition Coefficient (n-octanol/water)</b> |                               |  |
| <b>Autoignition Temperature</b>                |                               |  |
| <b>Decomposition Temperature</b>               | No data available             |  |
| <b>Viscosity</b>                               | Not applicable                | Solid                                    |
| <b>Explosive Properties</b>                    | No information available      |  |
| <b>Oxidizing Properties</b>                    | No information available      |  |

### 9.2. Other information

|                          |                 |
|--------------------------|-----------------|
| <b>Molecular Formula</b> | Hg N2 O6 . H2 O |
| <b>Molecular Weight</b>  | 342.6           |

## SECTION 10: STABILITY AND REACTIVITY

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

**10.2. Chemical stability**  
Light sensitive.

### 10.3. Possibility of hazardous reactions

**Hazardous Polymerization**  
No information available.

**Hazardous Reactions**  
None under normal processing.

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## 10.4. Conditions to avoid

Avoid dust formation. Incompatible products. Excess heat. Exposure to light.

## 10.5. Incompatible materials

Alcohols. Ammonia. Cyanides. Reducing agents. Strong acids.

## 10.6. Hazardous decomposition products

Nitrogen oxides (NOx). Mercury oxide.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Product Information

#### (a) acute toxicity;

|            |            |
|------------|------------|
| Oral       | Category 2 |
| Dermal     | Category 1 |
| Inhalation | Category 2 |

| Component        | LD50 Oral               | LD50 Dermal             | LC50 Inhalation |
|------------------|-------------------------|-------------------------|-----------------|
| Mercuric nitrate | LD50 = 26 mg/kg ( Rat ) | LD50 = 75 mg/kg ( Rat ) |                 |

(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; Category 2

Target Organs No information available.

(j) aspiration hazard; Not applicable  
Solid

**Other Adverse Effects** The toxicological properties have not been fully investigated.

**Symptoms / effects, both acute and delayed** No information available

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### Ecotoxicity effects

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the

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environment. Reacts with water so no ecotoxicity data for the substance is available. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

| Component        | Freshwater Fish            | Water Flea | Freshwater Algae | Microtox |
|------------------|----------------------------|------------|------------------|----------|
| Mercuric nitrate | 0.17 mg/l (fathead minnow) |            |                  |          |

**12.2. Persistence and degradability** The product includes heavy metals. Prevent release into the environment. Special pretreatment required  
**Persistence** May persist, based on information available.  
**Degradability** Not relevant for inorganic substances, Decomposes in contact with water.  
**Degradation in sewage treatment plant** Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants. Decomposes in contact with water.

**12.3. Bioaccumulative potential** May have some potential to bioaccumulate

**12.4. Mobility in soil** Hydrolyses The product is water soluble, and may spread in water systems Is not likely mobile in the environment due its low water solubility. Is not likely mobile in the environment. Will likely be mobile in the environment due to its water solubility. Highly mobile in soils

**12.5. Results of PBT and vPvB assessment** 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** Should not be released into the environment. 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. Do not let this chemical enter the environment.

## SECTION 14: TRANSPORT INFORMATION

### IMDG/IMO

**14.1. UN number** UN1625  
**14.2. UN proper shipping name** MERCURIC NITRATE  
**14.3. Transport hazard class(es)** 6.1  
**Subsidiary Hazard Class** P  
**14.4. Packing group** II

### ADR

**14.1. UN number** UN1625  
**14.2. UN proper shipping name** MERCURIC NITRATE  
**14.3. Transport hazard class(es)** 6.1  
**14.4. Packing group** II



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## IATA

- 14.1. UN number** UN1625  
**14.2. UN proper shipping name** MERCURIC NITRATE  
**14.3. Transport hazard class(es)** 6.1  
**14.4. Packing group** II
- 14.5. Environmental hazards** Dangerous for the environment  
Product is a marine pollutant according to the criteria set by IMDG/IMO
- 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

X = listed

| Component                         | EINECS    | ELINCS | NLP | TSCA | DSL | NDSL | PICCS | ENCS | IECSC | AICS | KECL |
|-----------------------------------|-----------|--------|-----|------|-----|------|-------|------|-------|------|------|
| Mercury (II) nitrate, monohydrate | -         | -      |     | -    | -   | -    | X     | -    | X     | X    | -    |
| Mercuric nitrate                  | 233-152-3 | -      |     | X    | X   | -    | X     | -    | X     | X    | X    |

#### National Regulations

| Component        | Germany - Water Classification (VwVwS) | Germany - TA-Luft Class |
|------------------|--|-------------------------|
| Mercuric nitrate | WGK 3                                  |                         |

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

Take note of Dir 94/33/EC on the protection of young people at work

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

### 15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

## SECTION 16: OTHER INFORMATION

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

H300 - Fatal if swallowed

H310 - Fatal in contact with skin

H330 - Fatal if inhaled

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

#### 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

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**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

## Training Advice

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

First aid for chemical exposure, including the use of eye wash and safety showers.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

Chemical incident response training.

**Creation Date** 19-Sep-2014

**Revision Date** 11-Jul-2016

**Revision Summary** SDS sections updated, 9, 10, 12.

**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**