



# SAFETY DATA SHEET

Creation Date 09-Apr-2010

Revision Date 11-Jun-2015

Revision Number 4

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

### 1.1. Product identification

**Product Description:** Mercury(II) chloride  
**Cat No. :** 423930000; 423930050; 423931000; 423935000  
**Synonyms** Mercuric chloride  
**CAS-No** 7487-94-7  
**EC-No.** 231-299-8  
**Molecular Formula** Cl<sub>2</sub> Hg

### 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** Acros Organics BVBA  
Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium  
**E-mail address** 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 oral toxicity                                  | Category 2   |
| Skin Corrosion/irritation                            | Category 1 B |
| Serious Eye Damage/Eye Irritation                    | Category 1   |
| Germ Cell Mutagenicity                               | Category 2   |
| Reproductive Toxicity                                | Category 2   |
| Specific target organ toxicity - (repeated exposure) | Category 1   |

##### Environmental hazards

|                          |            |
|--------------------------|------------|
| Acute aquatic toxicity   | Category 1 |
| Chronic aquatic toxicity | Category 1 |

### 2.2. Label elements

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**Signal Word**

**Danger**

## Hazard Statements

- H300 - Fatal if swallowed
- H314 - Causes severe skin burns and eye damage
- H341 - Suspected of causing genetic defects
- H361f - Suspected of damaging fertility
- H372 - Causes damage to organs through prolonged or repeated exposure
- H410 - Very toxic to aquatic life with long lasting effects

## Precautionary Statements

- P281 - Use personal protective equipment as required
- P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water
- 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
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray
- P273 - Avoid release to the environment

## 2.3. Other hazards

No information available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

| Component         | CAS-No    | EC-No.            | Weight % | CLP Classification - Regulation (EC) No 1272/2008   |
|-------------------|-----------|-------------------|----------|---|
| Mercuric chloride | 7487-94-7 | EEC No. 231-299-8 | >95      | Acute Tox. 2 (H300)<br>Skin Corr. 1B (H314)<br>Eye Dam. 1 (H318)<br>Muta. 2 (H341)<br>Repr. 2 (H361f)<br>STOT RE 1 (H372)<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

|                     |  |
|---------------------|--|
| <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 soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required. |
| <b>Ingestion</b>    | Do not induce vomiting. Call a physician or Poison Control Center immediately.   |

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|                                   |   |
|-----------------------------------|---|
| <b>Inhalation</b>                 | Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a 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**

Causes burns by all exposure routes. . 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**

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

#### **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. Corrosive Material. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Do not allow run-off from fire fighting to enter drains or water courses.

#### **Hazardous Combustion Products**

Highly toxic fumes.

### **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**

Wear self-contained breathing apparatus and protective suit. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.

### **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.

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

Wear self-contained breathing apparatus and protective suit. Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

### **6.4. Reference to other sections**

Refer to protective measures listed in Sections 8 and 13.

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## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

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

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

Keep containers tightly closed in a dry, cool and well-ventilated place. 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                               |
|-------------------|----------------|----------------------------------|--------------|--|-------------------------------------|
| Mercuric chloride |                | TWA: 0.02 mg/m <sup>3</sup> 8 hr | 0.1mg/ml VME | 0.1mg/ml VLE<br>0.025mg/m <sup>3</sup> TWA (as Hg) | 0.1mg/m <sup>3</sup> VLA-ED (as Hg) |

| Component         | Italy | Germany                    | Portugal  | The Netherlands  | Finland                                    |
|-------------------|-------|----------------------------|---|--|--|
| Mercuric chloride | Pelle | 0.1mg/ml VME skin absorber | TWA: 0.02 mg/m <sup>3</sup> 8 horas<br>TWA: 0.025 mg/m <sup>3</sup> 8 horas<br>Pele | 0.15 mg/m <sup>3</sup> STEL 0.05 mg/m <sup>3</sup> MAC | TWA: 0.02 mg/m <sup>3</sup> 8 tunteina lho |

| Component         | Austria   | Denmark | Switzerland   | Poland | Norway                              |
|-------------------|---|---------|---|--------|-------------------------------------|
| Mercuric chloride | Haut<br>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 |         | 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 |

| Component         | Bulgaria                    | Croatia                                      | Ireland | Cyprus | Czech Republic |
|-------------------|-----------------------------|--|---------|--------|----------------|
| Mercuric chloride | TWA: 0.02 mg/m <sup>3</sup> | TWA-GVI: 0.02 mg/m <sup>3</sup> 8 satima. Hg |         |        |                |

| Component         | Estonia | Gibraltar | Greece                      | Hungary | Iceland |
|-------------------|---------|-----------|-----------------------------|---------|---------|
| Mercuric chloride |         |           | TWA: 0.02 mg/m <sup>3</sup> |         |         |

| Component         | Latvia                      | Lithuania | Luxembourg                            | Malta | Romania |
|-------------------|-----------------------------|-----------|---------------------------------------|-------|---------|
| Mercuric chloride | TWA: 0.02 mg/m <sup>3</sup> |           | TWA: 0.02 mg/m <sup>3</sup> 8 Stunden |       |         |

| Component         | Russia | Slovak Republic | Slovenia                              | Sweden | Turkey                             |
|-------------------|--------|-----------------|---------------------------------------|--------|------------------------------------|
| Mercuric chloride |        |                 | TWA: 0.02 mg/m <sup>3</sup> 8 urah Hg |        | TWA: 0.02 mg/m <sup>3</sup> 8 saat |

#### Biological limit values

List source(s):

| Component         | European Union | United Kingdom | France  | Spain | Germany |
|-------------------|----------------|----------------|---|-------|---------|
| Mercuric chloride |                |                | Total inorganic Mercury:<br>0.015 mg/L blood end of |       |         |

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|  |  |  |   |  |  |
|--|--|--|---|--|--|
|  |  |  | shift at end of workweek<br>Total inorganic Mercury:<br>0.050 mg/g creatinine<br>urine prior to shift |  |  |
|--|--|--|---|--|--|

## 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

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

| Route of exposure            | 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        |
|----------------|-------------------|-----------------|-------------|-----------------------|
| Natural rubber | See manufacturers | -               | EN 374      | (minimum requirement) |
| Nitrile rubber | recommendations   |                 |             |                       |
| Neoprene       |                   |                 |             |                       |
| PVC            |                   |                 |             |                       |

### 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 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.

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

### 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:-** Particle filtering: EN149:2001

When RPE is used a face piece Fit Test should be conducted

### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

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**Environmental exposure controls** 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

|   |                          |  |
|---|--------------------------|--|
| Appearance                              | White                    |  |
| Physical State                          | Solid                    |  |
| Odor                                    | Odorless                 |  |
| Odor Threshold                          | No data available        |  |
| pH                                      | 3.3                      |  |
| Melting Point/Range                     | 277 °C / 530.6 °F        |  |
| Softening Point                         | No data available        |  |
| Boiling Point/Range                     | 302 °C / 575.6 °F        |  |
| Flash Point                             | No information available | <b>Method -</b> No information available |
| Evaporation Rate                        | Not applicable           | Solid                                    |
| Flammability (solid,gas)                | No information available |  |
| Explosion Limits                        | No data available        |  |
| Vapor Pressure                          | No data available        |  |
| Vapor Density                           | Not applicable           | Solid                                    |
| Specific Gravity / Density              | 5.44 @ 25°C              |  |
| Bulk Density                            | No data available        |  |
| Water Solubility                        | 7.4 g/100 ml (20°C)      |  |
| Solubility in other solvents            | No information available |  |
| Partition Coefficient (n-octanol/water) |                          |  |
| Autoignition Temperature                |                          |  |
| Decomposition Temperature               | No data available        |  |
| Viscosity                               | Not applicable           | Solid                                    |
| Explosive Properties                    | No information available |  |
| Oxidizing Properties                    | No information available |  |

### 9.2. Other information

|                   |                    |
|-------------------|--------------------|
| Molecular Formula | Cl <sub>2</sub> Hg |
| Molecular Weight  | 271.5              |

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

None known, based on information available

### 10.2. Chemical stability

Stable under normal conditions: Light sensitive

### 10.3. Possibility of hazardous reactions

|                          |  |
|--------------------------|--|
| Hazardous Polymerization | Hazardous polymerization does not occur. |
| Hazardous Reactions      | No information available.                |

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

Organic materials. Acids. Bases. Strong oxidizing agents. Ammonia. Sulfides. lead. Metals. copper.

### 10.6. Hazardous decomposition products

Highly toxic fumes.

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## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Product Information

##### (a) acute toxicity;

Oral

Category 2

Dermal

Based on available data, the classification criteria are not met

Inhalation

Based on available data, the classification criteria are not met

| Component         | LD50 Oral                             | LD50 Dermal | LC50 Inhalation |
|-------------------|---------------------------------------|-------------|-----------------|
| Mercuric chloride | 25.9 mg/kg ( Rat )<br>1 mg/kg ( Rat ) |             |                 |

(b) skin corrosion/irritation; Category 1 B

(c) serious eye damage/irritation; Category 1

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

Respiratory

No data available

Skin

No data available

(e) germ cell mutagenicity; Category 2

Possible risk of irreversible effects

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

##### (g) reproductive toxicity;

Reproductive Effects

Category 2

Possible risk of impaired fertility.

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; Category 1

Target Organs

No information available.

(j) aspiration hazard; Not applicable  
Solid

Other Adverse Effects See actual entry in RTECS for complete information

#### Symptoms / effects, both acute and delayed

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

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 environment.

| Component         | Freshwater Fish   | Water Flea                                   | Freshwater Algae | Microtox |
|-------------------|---|--|------------------|----------|
| Mercuric chloride | 5.933 - 10.34 mg/L<br>LC50 96 h 0.041 mg/L<br>LC50 96 h 0.1 - 0.182 | EC50=0.0015mg/L 48 h<br>EC50=0.012mg/L >48 h |                  |          |

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|  |   |  |  |  |
|--|---|--|--|--|
|  | mg/L LC50 96 h 0.155<br>mg/L LC50 96 h 0.13 -<br>0.19 mg/L LC50 96 h<br>0.014 - 0.019 mg/L<br>LC50 96 h 0.02 - 0.26<br>mg/L LC50 96 h 4.425<br>mg/L LC50 96 h 0.4<br>mg/L LC50 96 h 0.096 -<br>0.133 mg/L LC50 96 h |  |  |  |
|--|---|--|--|--|

## 12.2. Persistence and degradability

### **Persistence**

Soluble in water, Persistence is unlikely, based on information available.

### **Degradability**

Not relevant for inorganic substances.

### **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

## 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**

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. Large amounts will affect pH and harm aquatic organisms. Do not let this chemical enter the environment.

## SECTION 14: TRANSPORT INFORMATION

## IMDG/IMO

### 14.1. UN number

UN1624

### 14.2. UN proper shipping name

MERCURIC CHLORIDE

### 14.3. Transport hazard class(es)

6.1

### 14.4. Packing group

II

## ADR

### 14.1. UN number

UN1624

### 14.2. UN proper shipping name

MERCURIC CHLORIDE

### 14.3. Transport hazard class(es)

6.1

### 14.4. Packing group

II

## IATA



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|  |  |
|--|--|
| <b>14.1. UN number</b>   | UN1624   |
| <b>14.2. UN proper shipping name</b>   | MERCURIC CHLORIDE  |
| <b>14.3. Transport hazard class(es)</b>  | 6.1  |
| <b>14.4. Packing group</b>   | II   |
| <b>14.5. Environmental hazards</b>   | Dangerous for the environment<br>Product is a marine pollutant according to the criteria set by IMDG/IMO |
| <b>14.6. Special precautions for user</b>  | No special precautions required  |
| <b>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | 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 |
|-------------------|-----------|--------|-----|------|-----|------|-------|------|-------|------|------|
| Mercuric chloride | 231-299-8 | -      |     | X    | X   | -    | X     | X    | X     | X    | X    |

### National Regulations

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

| Component         | France - INRS (Tables of occupational diseases)     |
|-------------------|---|
| Mercuric chloride | Tableaux des maladies professionnelles (TMP) - RG 2 |

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 Dir 92/85/EC on the protection of pregnant and breastfeeding women 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-/EUH-Statements Referred to Under Section 3

H300 - Fatal if swallowed

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H341 - Suspected of causing genetic defects

H361f - Suspected of damaging fertility

H372 - Causes 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/MDG** - 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.

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.

Chemical incident response training.

**Creation Date** 09-Apr-2010

**Revision Date** 11-Jun-2015

**Revision Summary** Update to Format.

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

## Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

## End of Safety Data Sheet