



# SAFETY DATA SHEET

Creation Date 16-Nov-2010

Revision Date 04-Aug-2014

Revision Number 7

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

### 1.1. Product identifier

**Product Description:** 2-Mercaptopyridine-N-oxide, sodium salt, 40 w/w % aqueous solution  
**Cat No. :** 257740000; 257740010; 257740025; 257740050  
**Synonyms** Sodium omadine; N-Hydroxy-2-pyridinethione, sodium salt; 2-Pyridinethiol-1-oxide, sodium salt  
**Molecular Formula** C5 H4 N Na O S

### 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 Pharmaceuticaan 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 4 |
| Acute dermal toxicity              | Category 4 |
| Acute Inhalation Toxicity - Vapors | Category 4 |
| Skin Corrosion/irritation          | Category 2 |
| Serious Eye Damage/Eye Irritation  | Category 2 |

##### Environmental hazards

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

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

**Symbol(s)** Xn - Harmful  
N - Dangerous for the environment

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**R-phrases(s)** R50 - Very toxic to aquatic organisms  
R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed  
R36/38 - Irritating to eyes and skin

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16.

## 2.2. Label elements



**Signal Word**

**Warning**

### Hazard Statements

H319 - Causes serious eye irritation  
H315 - Causes skin irritation  
H302 - Harmful if swallowed  
H312 - Harmful in contact with skin  
H332 - Harmful if inhaled  
H410 - Very toxic to aquatic life with long lasting effects

### Precautionary Statements

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection  
P270 - Do not eat, drink or smoke when using this product  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P312 - Call a POISON CENTER or doctor/ physician if you feel unwell  
P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

## 2.3. Other hazards

Stench

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

| Component           | CAS-No    | EC-No.            | Weight % | CLP Classification - Regulation (EC) No 1272/2008  | DSD Classification - 67/548/EEC       |
|---------------------|-----------|-------------------|----------|--|---------------------------------------|
| Water               | 7732-18-5 | 231-791-2         | 60       | -  | -                                     |
| Sodium pyridithione | 3811-73-2 | EEC No. 223-296-5 | 40       | Aquatic acute 1 (H400)<br>Aquatic chronic 1 (H410)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Acute Tox. 4 (H302)<br>Acute Tox. 4 (H312)<br>Acute Tox. 4 (H332) | Xn; R20/21/22<br>Xi; R36/38<br>N; R50 |

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16.

## SECTION 4: FIRST AID MEASURES

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## 4.1. Description of first aid measures

|                                   |  |
|-----------------------------------|--|
| <b>General Advice</b>             | If symptoms persist, call a physician.   |
| <b>Eye Contact</b>                | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention. |
| <b>Skin Contact</b>               | Obtain medical attention. Wash off immediately with plenty of water for at least 15 minutes.                       |
| <b>Ingestion</b>                  | Clean mouth with water and drink afterwards plenty of water.   |
| <b>Inhalation</b>                 | Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.                               |
| <b>Protection of First-aiders</b> | Use personal protective equipment.   |

## 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

Do not allow run-off from fire fighting to enter drains or water courses.

#### **Hazardous Combustion Products**

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Sulfur oxides.

### 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. Ensure adequate ventilation.

### 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. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

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

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

### 6.4. Reference to other sections

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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. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

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

Keep containers tightly closed in a dry, cool and well-ventilated place.

### 7.3. Specific end use(s)

Use in laboratories

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Exposure limits

List source(s):

| Component           | Italy | Germany  | Portugal | The Netherlands | Finland |
|---------------------|-------|--|----------|-----------------|---------|
| Sodium pyridithione |       | TWA: 1 mg/m <sup>3</sup> (8 Stunden). AGW - exposure factor 2<br>TWA: 1 mg/m <sup>3</sup> (8 Stunden). MAK<br>Höhepunkt: 2 mg/m <sup>3</sup><br>Haut |          |                 |         |

| Component           | Austria   | Denmark                                 | Switzerland   | Poland | Norway |
|---------------------|---|---|---|--------|--------|
| Sodium pyridithione | Haut<br>MAK-KZW: 4 mg/m <sup>3</sup> 15 Minuten<br>MAK-TMW: 1 mg/m <sup>3</sup> 8 Stunden | TWA: 1 mg/m <sup>3</sup> 8 timer<br>Hud | Haut/Peau<br>STEL: 2 mg/m <sup>3</sup> 15 Minuten<br>TWA: 1 mg/m <sup>3</sup> 8 Stunden |        |        |

| Component           | Russia | Slovak Republic | Slovenia  | Sweden | Turkey |
|---------------------|--------|-----------------|---|--------|--------|
| Sodium pyridithione |        |                 | TWA: 1 mg/m <sup>3</sup> 8 urah<br>Koža<br>STEL: 4 mg/m <sup>3</sup> 15 minutah |        |        |

#### 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.

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

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| <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

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** 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:** Organic gases and vapours filter Type A Brown 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

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

**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

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## 9.1. Information on basic physical and chemical properties

|   |                             |  |
|---|-----------------------------|--|
| Appearance                              | Amber                       |  |
| Physical State                          | Liquid                      |  |
| Odor                                    | Stench                      |  |
| Odor Threshold                          | No data available           |  |
| pH                                      | 8.5-10                      |  |
| Melting Point/Range                     | -30 - -25 °C / -22 - -13 °F |  |
| Softening Point                         | No data available           |  |
| Boiling Point/Range                     | 109 °C / 228.2 °F           | @ 760 mmHg                               |
| Flash Point                             | No information available    | <b>Method -</b> No information available |
| Evaporation Rate                        | No data available           |  |
| Flammability (solid,gas)                | Not applicable              | Liquid                                   |
| Explosion Limits                        | No data available           |  |
| Vapor Pressure                          | 19 mmHg @ 25 °C             |  |
| Vapor Density                           | 5.7                         | (Air = 1.0)                              |
| Specific Gravity / Density              | 1.220                       |  |
| Bulk Density                            | Not applicable              | Liquid                                   |
| Water Solubility                        | 547 g/L                     |  |
| Solubility in other solvents            | No information available    |  |
| Partition Coefficient (n-octanol/water) |                             |  |
| Autoignition Temperature                | No data available           |  |
| Decomposition temperature               | 250 °C                      |  |
| Viscosity                               | No data available           |  |
| Explosive Properties                    | No information available    |  |
| Oxidizing Properties                    | No information available    |  |

## 9.2. Other information

|                   |                |
|-------------------|----------------|
| Molecular Formula | C5 H4 N Na O S |
| Molecular Weight  | 149.12         |

## 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**  
Incompatible products. Excess heat.

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

**10.6. Hazardous decomposition products**  
Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Sulfur oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

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## Product Information

- (a) acute toxicity;
- |            |                                |
|------------|--------------------------------|
| Oral       | Category 4<br>ATE = 1208 mg/kg |
| Dermal     | Category 4<br>ATE = 1800 mg/kg |
| Inhalation | Category 4                     |

## Toxicology data for the components

| Component           | LD50 Oral         | LD50 Dermal        | LC50 Inhalation |
|---------------------|-------------------|--------------------|-----------------|
| Sodium pyridithione | 870 mg/kg (Mouse) | 700 mg/kg (Rabbit) |                 |

- (b) skin corrosion/irritation; Category 2
- (c) serious eye damage/irritation; Category 2
- (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 | No information available. |
|---------------|---------------------------|
- (j) aspiration hazard; No data available
- Other Adverse Effects** The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information
- Symptoms / effects, both acute and delayed** No information available

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### Ecotoxicity effects

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

| Component           | Freshwater Fish            | Water Flea                 | Freshwater Algae | Microtox |
|---------------------|----------------------------|----------------------------|------------------|----------|
| Sodium pyridithione | EC50 = 0.00264 mg/L<br>96h | EC50 = 0.0088 mg/L 48<br>h |                  |          |

### 12.2. Persistence and degradability

#### Persistence

#### Degradation in sewage treatment plant

Readily biodegradable  
Soluble in water, Persistence is unlikely, based on information available.  
Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.

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|   |  |
|---|--|
| <b>12.3. Bioaccumulative potential</b>          | Does not bioaccumulate; BCF = 50; Bioaccumulation is unlikely  |
| <b>12.4. Mobility in soil</b>                   | 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 |
| <b>12.5. Results of PBT and vPvB assessment</b> | No data available for assessment.  |
| <b>12.6. Other adverse effects</b>              |  |
| <b>Endocrine Disruptor Information</b>          | This product does not contain any known or suspected endocrine disruptors  |
| <b>Persistent Organic Pollutant</b>             | This product does not contain any known or suspected substance   |
| <b>Ozone Depletion Potential</b>                | This product does not contain any known or suspected substance   |

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

|  |   |
|--|---|
| <b>Waste from Residues / Unused Products</b> | 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. |
| <b>Contaminated Packaging</b>                | Dispose of this container to hazardous or special waste collection point.   |
| <b>European Waste Catalogue (EWC)</b>        | According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.  |
| <b>Other Information</b>                     | 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

|   |  |
|---|--|
| <b>14.1. UN number</b>                  | UN3082   |
| <b>14.2. UN proper shipping name</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S   |
| <b>14.3. Transport hazard class(es)</b> | 9  |
| <b>14.4. Packing group</b>              | III  |
| <b>Marine Pollutant</b>                 | This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO |

### ADR

|   |  |
|---|--|
| <b>14.1. UN number</b>                  | UN3082   |
| <b>14.2. UN proper shipping name</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S |
| <b>14.3. Transport hazard class(es)</b> | 9  |
| <b>14.4. Packing group</b>              | III  |

### IATA

|   |  |
|---|--|
| <b>14.1. UN number</b>                  | UN3082   |
| <b>14.2. UN proper shipping name</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S |
| <b>14.3. Transport hazard class(es)</b> | 9  |
| <b>14.4. Packing group</b>              | III  |

|                                    |  |
|------------------------------------|--|
| <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 |
|---|---------------------------------|



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

## 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 |
|---------------------|-----------|--------|-----|------|-----|------|-------|------|-------|------|------|
| Water               | 231-791-2 | -      |     | X    | X   | -    | X     | -    | X     | X    | X    |
| Sodium pyridithione | 223-296-5 | -      |     | X    | X   | -    | X     | X    | X     | X    | X    |

### National Regulations

**WGK Classification** WGK Classification Hazardous to water/Class 2

| Component           | Germany - Water Classification (VwVwS) | Germany - TA-Luft Class |
|---------------------|--|-------------------------|
| Sodium pyridithione | WGK 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 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

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

## SECTION 16: OTHER INFORMATION

### Full text of R-phrases referred to under sections 2 and 3

R50 - Very toxic to aquatic organisms

R36/38 - Irritating to eyes and skin

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

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

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H332 - Harmful if inhaled

H315 - Causes skin irritation

H319 - Causes serious eye irritation

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

**WEL** - Workplace Exposure Limit

**ACGIH** - American Conference of Governmental Industrial Hygienists

**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

**TWA** - Time Weighted Average

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

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**DNEL** - Derived No Effect Level  
**RPE** - Respiratory Protective Equipment  
**LC50** - Lethal Concentration 50%  
**NOEC** - No Observed Effect Concentration  
**PBT** - Persistent, Bioaccumulative, Toxic

**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]:

|                              |                       |
|------------------------------|-----------------------|
| <b>Physical hazards</b>      | On basis of test data |
| <b>Health Hazards</b>        | Calculation method    |
| <b>Environmental hazards</b> | Calculation method    |

## Training Advice

Chemical incident response training.

|                         |                                |
|-------------------------|--------------------------------|
| <b>Creation Date</b>    | 16-Nov-2010                    |
| <b>Revision Date</b>    | 04-Aug-2014                    |
| <b>Revision Summary</b> | (M)SDS sections updated, 2, 3. |

## 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**