Carestream

# SAFETY DATA SHEET

**Issuing date** no data available **Revision Date** 2012-11-15 **Version** 5

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

**Product code** 5159082

**Product name** KODAK INDUSTREX LO Fixer and Replenisher
INDUSTREX LO Fixer and Replenisher

**Pure substance/mixture** Mixture

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

**Identified uses:** Restricted to professional users. Photographic chemical.
**Uses advised against** No information available

### 1.3 Details of the supplier of the safety data sheet

**Supplier** Carestream Health UK Ltd., 1 Park Lane, Hemel Hempstead, Hertfordshire, HP2 4YG

**For further information, please contact:**

**Product Information** +44 (0)870 6000245
**E-mail address** For environment, health and safety information, email: EMEAEHS@carestream.com

### 1.4 Emergency telephone number

**Emergency telephone** CHEMTREC International 1-703-527-3887
CHEMTREC UK +(44)-870-8200418

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**
*For the full text of the R-phrases mentioned in this Section, see Section 16*

The preparation is non-dangerous in accordance with Directive 1999/45/EC.
**Symbol(s)**
Not dangerous

### 2.2 Label Elements

**Symbol(s)** Not dangerous.

**R-phrase(s)**
None

**2.3 OTHER INFORMATION**

**Properties Affecting Health** May be harmful if swallowed. May cause skin and eye irritation.

**Environmental properties** None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substances**
Not applicable

**3.2. Mixtures**

Hazardous components

| **Chemical Name** | EC-No | **CAS-No** | **Weight percent** | Classification (67/548) | **GHS Classification** | REACH Registration Number |
|---|---|---|---|---|---|---|
| Ammonium thiosulfate | Present | 7783-18-8 | 35-45 | - | no data available | no data available |
| Sodium bisulfite | Present | 7631-90-5 | 1-5 | Xn; R22<br>R31 | Acute Tox. 4 (H302) B<br>(EUH031) | no data available |
| Acetic acid | Present | 64-19-7 | 1-5 | R10<br>C; R35 | Skin Corr. 1A (H314) B<br>Flam. Liq. 3 (H226) B | no data available |
| Ammonium bisulfite | Present | 10192-30-0 | 1-5 | - | no data available | no data available |
| Aluminum sulfate | Present | 10043-01-3 | 1-5 | Xi;R41 | Eye Dam. 1 (H318) | no data available |
| Sodium borate | Present | 1330-43-4 | <2 | Repr.Cat.2;<br>R60-61 | Repr. 1B (H360FD) | no data available |

Non-hazardous ingredients

| **Chemical Name** | EC-No | **CAS-No** | **Weight percent** | Classification (67/548) | **GHS Classification** | REACH Registration Number |
|---|---|---|---|---|---|---|
| Water | Present | 7732-18-5 | 40-60 | - | no data available | no data available |
| Potassium acetate | Present | 127-08-2 | 1-5 | - | no data available | no data available |

**For the full text of the R-phrases mentioned in this Section, see Section 16**

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

**General advice** If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin contact** Wash skin with soap and water. If symptoms persist, call a physician.

**Ingestion** If swallowed, do not induce vomiting - seek medical advice.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

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

**Main symptoms** Irritation.

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

**Notes to physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable extinguishing media**
The product is not flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Cool containers / tanks with water spray.

**Extinguishing media which shall not be used for safety reasons**
None

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

**Special hazard**
Not combustable. Thermal decomposition can lead to release of irritating gases and vapours.

### 5.3 Advice for fire-fighters

**Special protective equipment for fire-fighters**
As in any fire, wear self-contained breathing apparatus and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

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

Ensure adequate ventilation. Avoid contact with eyes.

See Section 12 for additional information.

### 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

Dam up. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation. Avoid contact with eyes.

**Prevention of fire and explosion** No special technical protective measures required.

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

**Technical measures/Storage conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Materials to avoid** Acids. Strong bases. Sodium hypochlorite. Halogenated compounds. Oxidizing agents. Contact with strong acids liberates sulphur dioxide. Contact with strong bases liberates ammonia.

### 7.3 Specific end uses

**Specific use(s)** None known.
**Exposure scenario** No information available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

**Exposure limits**

| Chemical Name | European Union | The United Kingdom | France | Spain | Germany |
|---|---|---|---|---|---|
| Sodium bisulfite<br>7631-90-5 | | STEL 15 mg/m³<br>TWA 5 mg/m³ | TWA 5 mg/m³ | TWA 5 mg/m³ | |
| Acetic acid<br>64-19-7 | TWA 10 ppm<br>TWA 25 mg/m³ | | STEL 10 ppm<br>STEL 25 mg/m³ | TWA 10 ppm<br>TWA 25 mg/m³<br>STEL 15 ppm<br>STEL 37 mg/m³ | AGW 10 ppm<br>AGW 25 mg/m³ |
| Aluminum sulfate<br>10043-01-3 | | STEL 6 mg/m³<br>TWA 2 mg/m³ | TWA 2 mg/m³ | TWA 2 mg/m³ | |
| Sodium borate<br>1330-43-4 | | STEL 3 mg/m³<br>TWA 1 mg/m³ | TWA 1 mg/m³<br>R2 | TWA 2 mg/m³<br>STEL 6 mg/m³<br>R(TR1) | |

| Chemical Name | Italy | Portugal | The Netherlands | Finland | Denmark |
|---|---|---|---|---|---|
| Sodium bisulfite<br>7631-90-5 | | TWA 5 mg/m³<br>C(A4) | | | TWA 5 mg/m³ |
| Acetic acid<br>64-19-7 | | TWA 10 ppm<br>STEL 15 ppm | | TWA 5 ppm<br>TWA 13 mg/m³<br>STEL 10 ppm<br>STEL 25 mg/m³ | TWA 10 ppm<br>TWA 25 mg/m³ |
| Aluminum sulfate<br>10043-01-3 | | TWA 2 mg/m³ | TWA 0.05 mg/m³ | TWA 1 mg/m³ | TWA 1 mg/m³ |

| | | | | | |
|---|---|---|---|---|---|
| Sodium borate<br>1330-43-4 | | TWA 2 mg/m³<br>STEL 6 mg/m³<br>C(A4) | | | TWA 1 mg/m³ |
| **Chemical Name** | **Austria** | **Switzerland** | **Poland** | **Norway** | **Ireland** |
| Sodium bisulfite<br>7631-90-5 | | TWA 5 mg/m³ | | TWA 5 mg/m³<br>STEL 10 mg/m³ | TWA 5 mg/m³ |
| Acetic acid<br>64-19-7 | STEL 20 ppm<br>STEL 50 mg/m³<br>TWA 10 ppm<br>TWA 25 mg/m³ | SS-C**<br>TWA 10 ppm<br>TWA 25 mg/m³<br>STEL 20 ppm<br>STEL 50 mg/m³ | TWA 15 mg/m³<br>STEL 30 mg/m³<br>R | TWA 10 ppm<br>TWA 25 mg/m³<br>STEL 20 ppm<br>STEL 37.5 mg/m³ | TWA 10 ppm<br>TWA 25 mg/m³<br>STEL 15 ppm<br>STEL 37 mg/m³ |
| Aluminum sulfate<br>10043-01-3 | | TWA 2 mg/m³ | | TWA 2 mg/m³<br>STEL 4 mg/m³ | TWA 2 mg/m³ |
| Sodium borate<br>1330-43-4 | | TWA 1 mg/m³ | | TWA 1 mg/m³<br>STEL 3 mg/m³ | TWA 1 mg/m³ |

| **Chemical Name** | **Sweden** | **Greece** | **Belgium** | **Hungary** |
|---|---|---|---|---|
| Sodium bisulfite<br>7631-90-5 | | TWA 5 mg/m³ | TWA 5 mg/m³ | |
| Acetic acid<br>64-19-7 | LLV 5 ppm<br>LLV 13 mg/m³<br>STV 10 ppm<br>STV 25 mg/m³ | TWA 10 ppm<br>TWA 25 mg/m³<br>STEL 15 ppm<br>STEL 37 mg/m³ | TWA 10 ppm<br>TWA 25 mg/m³<br>STEL 15 ppm<br>STEL 38 mg/m³ | STEL 25mg/m³<br>TWA 25mg/m³ |
| Aluminum sulfate<br>10043-01-3 | | TWA 2 mg/m³ | TWA 2 mg/m³ | |
| Sodium borate<br>1330-43-4 | | TWA 10 mg/m³ | TWA 2 mg/m³<br>STEL 6 mg/m³ | |
| **Chemical Name** | **Czech Republic** | **Luxembourg** | **Russia** | **Estonia** |
| Ammonium thiosulfate<br>7783-18-8 | | | MAC 10 mg/m³ | |
| Sodium bisulfite<br>7631-90-5 | | | MAC 5 mg/m³ | |
| Potassium acetate<br>127-08-2 | | | MAC 5 mg/m³ | |
| Acetic acid<br>64-19-7 | TWA 25 mg/m³<br>Ceiling 35 mg/m³ | TWA 10 ppm<br>TWA 25 mg/m³ | S*<br>MAC 5 mg/m³ | STEL 10 ppm<br>STEL 25 mg/m³<br>TWA 10 ppm<br>TWA 25 mg/m³ |
| Aluminum sulfate<br>10043-01-3 | | | STEL 2 mg/m³<br>TWA 0.5 mg/m³<br>MAC 0.5 mg/m³ | |
| Sodium borate<br>1330-43-4 | | | MAC 2 mg/m³ | |
| **Chemical Name** | **Latvia** | **Slovenia** | **Slovakia** | **Croatia** |
| Ammonium thiosulfate<br>7783-18-8 | TWA 10 mg/m³ | | | |
| Sodium bisulfite<br>7631-90-5 | | | | TWA 5 mg/m³ |
| Acetic acid<br>64-19-7 | TWA 10 ppm<br>TWA 25 mg/m³ | TWA 10 ppm<br>TWA 25 mg/m³ | TWA 10 ppm<br>TWA 25 mg/m³ | TWA 10 ppm<br>TWA 25 mg/m³ |
| Aluminum sulfate<br>10043-01-3 | | | | S*<br>TWA 2 mg/m³ |
| Sodium borate<br>1330-43-4 | | | | TWA 1 mg/m³ |
| **Chemical Name** | **Turkey** | **Romania** | **Bulgaria** | **Lithuania** |
| Ammonium thiosulfate<br>7783-18-8 | | | TWA 10.0 mg/m³ | TWA 10 mg/m³ |
| Acetic acid<br>64-19-7 | TWA 10 ppm<br>TWA 25 mg/m³ | TWA 10 ppm<br>TWA 25 mg/m³ | STEL 37.0 mg/m³<br>TWA 25.0 mg/m³ | TWA 10 ppm<br>TWA 25 mg/m³ |

**Biological occupational exposure limits**
No information available

| | |
|---|---|
| **Derived No Effect Level** | No information available |
| **Predicted No Effect Concentration (PNEC)** | No information available |

### 8.2 Exposure controls

**Engineering measures** Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Ensure that eyewash stations and safety showers are close to the workstation location.

**Personal protective equipment**

**General Information** These recommendations apply to the product as supplied.

**Respiratory protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Eye protection** Safety glasses with side-shields. If splashes are likely to occur, wear:. Goggles.

**Skin and body protection** Wear suitable protective clothing.

**Hand protection** The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).

| **In case of full contact:** | | | |
|---|---|---|---|
| Glove material | Glove thickness | Break through time | Remarks |
| Nitrile rubber | >=0.38 mm | >480 min | |
| Neoprene | >=0.65 mm | >240 min | |
| butyl-rubber | >=0.36 mm | >480 min | |

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

**Environmental exposure controls** Do not allow material to contaminate ground water system.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

| | | | |
|---|---|---|---|
| **Physical state** | Liquid | **Odour** | slight, ammoniacal |
| **Colour** | light yellow | **Odour Threshold** | No information available |

| **Property** | **Values** | **Note - Method** |
|---|---|---|
| **pH** | 4.9 | No information available |
| **Melting point/range:** | | No information available |
| **Freezing point:** | | No information available |
| **Boiling point/boiling range** | 100 °C | No information available |
| **Flash point:** | > 94.200 | No information available |
| **Evaporation rate** | | No information available |
| **Flammability (solid, gas)** | | No information available |
| **Flammability Limits in Air** | | No information available |

| | | |
|---|---|---|
| **upper flammability limit** | No information available | |
| **lower flammability limit** | No information available | |
| **Vapour pressure** | 24 hPa | @ 20 °C |
| **Vapour density** | 0.6 | No information available |
| **Specific Gravity** | 1.29 | No information available |
| **Relative density** | | No information available |
| **Water solubility** | completely soluble | No information available |
| **Solubility in other solvents** | | No information available |
| **Partition coefficient: n-octanol/water** | | No information available |
| **Auto-ignition temperature** | | No information available |
| **Decomposition temperature** | | No information available |
| **Viscosity:** | | No information available |
| **Explosive properties** | No information available | |
| **Oxidizing properties** | No information available | |

**9.2 OTHER INFORMATION**

**Bulk density:** No information available

## 10. STABILITY AND REACTIVITY

**10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

None under normal processing.

**10.4 Conditions to avoid**

Do not freeze. To avoid thermal decomposition, do not overheat.

**10.5 Incompatible materials**

Acids. Strong bases. Sodium hypochlorite. Halogenated compounds. Oxidizing agents. Contact with strong acids liberates sulphur dioxide. Contact with strong bases liberates ammonia.

**10.6 Hazardous decomposition products**

Carbon oxides. Sulphur oxides. Nitrogen oxides (NOx). Ammonia. Fumes of aluminium or aluminium oxide.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute toxicity**

**Inhalation** Not an expected route of exposure.

**Eye contact** No known effect. May cause irritation.

**Skin contact** No known effect. May cause irritation.

**Ingestion** No known effect. May be harmful if swallowed.

**Acute toxicity - Component Information**

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|---|---|---|
| Ammonium thiosulfate | > 2000 mg/kg ( Rat ) | | |
| Sodium bisulfite | 1420 mg/kg ( Rat ) | | |
| Acetic acid | 3310 mg/kg ( Rat ) | 1060 mg/kg ( Rabbit ) | 11.4 mg/L ( Rat ) 4 h |
| Aluminum sulfate | > 5000 mg/kg ( Rat ) | | |
| Sodium borate | 2403 mg/kg ( Rat ) | 2000 mg/kg ( Rabbit ) | |

| Chemical Name | Other applicable information |
|---|---|
| Ammonium thiosulfate | No skin irritation<br><br>No eye irritation |
| Sodium bisulfite | No skin irritation<br><br>No eye irritation |
| Acetic acid | Severe eye irritation<br>Severe skin irritation<br>Acute overexposure to extremely high airborne concentrations of respiratory irritants has been associated with development of an asthma-like reactive airways syndrome (RADS) in susceptible individuals. Extremely high airborne concentrations are not generated during normal conditions of use but may occur following a spill. The potential to generate extremely high airborne concentrations in a spill situation depends upon physical factors such as the concentration of the solution, the volume of the spill, the surface area of the spill, the size of the room where the spill occured, and the ventilation rate in the room. |
| Aluminum sulfate | Severe eye irritation<br><br>No skin irritation<br><br>Cell transformation assay: negative<br><br>Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea |
| Sodium borate | Based on repeated-dose ingestion studies in animals, may cause adverse reproductive and developmental effects. However, the doses administered were many times those to which humans would normally be exposed. |

**Chronic toxicity**

**Carcinogenicity** Contains no ingredient listed as a carcinogen.

**Sensitisation** No information available.

**Reproductive toxicity** The product contains no substances known to be hazardous to health in concentrations which need to be taken into account.

**Developmental Toxicity** The product contains no substances classified as hazardous to health in concentrations which should be taken into account according to EC directives. Boron: below limit for consideration.

**Target Organ Effects** Respiratory system. Eyes. Skin. Teeth.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Ecotoxicity effects** The environmental impact of this product has not been fully investigated.

**Product Information**
No information available.

**Component Information**

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates |
|---|---|---|---|
| Sodium bisulfite | | LC50= 240 mg/L Gambusia affinis 96 h | EC50 = 119 mg/L 48 h (Daphnia magna) |
| Potassium acetate | | LC50= 6800 mg/L Oncorhynchus mykiss 96 h | EC50 = 7170 mg/L 24 h (Daphnia magna) |
| Acetic acid | | LC50= 79 mg/L Pimephales promelas 96 h LC50= 75 mg/L Lepomis macrochirus 96 h | EC50 = 47 mg/L 24 h (Daphnia magna) EC50 = 65 mg/L 48 h (Daphnia magna) |
| Aluminum sulfate | | LC50= 100 mg/L Carassius auratus 96 h LC50= 37 mg/L Gambusia affinis 96 h | EC50 = 136 mg/L 15 min (Daphnia magna) |
| Sodium borate | 158 mg/L EC50 96 h (Desmodesmus subspicatus) 2.6 - 21.8 mg/L EC50 96 h (Pseudokirchneriella subcapitata) | LC50= 340 mg/L Limanda limanda 96 h | LC50 1085 - 1402 mg/L 48 h (Daphnia magna) |

**Chronic aquatic toxicity**
**Product Information**
No information available.

**Component Information**
No information available.

### 12.2 Persistence and degradability

Readily biodegradable.

| Degradation | | | | | | |
|---|---|---|---|---|---|---|
| Type: | Method | Compartment | Sampling time | Unit | Result | Unit |
| Chemical Oxygen Demand (COD) | | | | | 280 | g/l |
| Biochemical Oxygen Demand (BOD) | | | | | 227 | g/l |

### 12.3 Bioaccumulative potential

**Bioaccumulative potential** No information available.

**Partition coefficient: n-octanol/water** No information available

| Chemical Name | log Pow |
|---|---|
| Acetic acid | -0.31 |

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

This information is provided to assist users in the correct disposal of working solutions prepared and used to Carestream Health specifications.

**Working Solution** Waste material is currently classified as hazardous under Council Directive 91/689/EEC. The European Waste Catalogue Code is 09 01 04 Fixer solutions. Dispose according to the local regulations or guidelines that apply to the category of waste. Ensure the use of properly authorised waste management companies.

**Waste from residues / unused products** Dispose of in accordance with the European Directives on waste and hazardous waste.

**Empty containers** If thoroughly cleaned, preferably by rinsing at least three times with small quantities of water, waste product packaging may be consigned for recovery or disposal as non hazardous waste. Whenever possible, minimize waste by using the rinsing water to make up the working solution. The European Waste Catalogue Code is 15 01 02 plastic packaging.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

**Other information** According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

## 14. TRANSPORT INFORMATION

The information given below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may have a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions. Please consult the product packaging for further details.

| | |
|---|---|
| **IMDG/IMO** | not regulated |
| **14.1. UN/ID No** | not regulated |
| **14.2. Proper shipping name** | not regulated |
| **14.3. Hazard Class** | not regulated |
| **14.4. Packing group** | not regulated |
| **14.5. Marine pollutant** | None |
| **14.6. Special Provisions** | None |

| | |
|---|---|
| **ADR/RID** | not regulated |
| **14.1. UN/ID No** | not regulated |
| **14.2. Proper shipping name** | not regulated |
| **14.3. Hazard Class** | not regulated |
| **14.4. Packing group** | not regulated |
| **14.5. Classification Code** | None |
| **14.6. Special Provisions** | none |

| | |
|---|---|
| **ICAO/IATA** | not regulated |
| **14.1. UN/ID No** | not regulated |
| **14.2. Proper shipping name** | not regulated |
| **14.3. Hazard Class** | not regulated |
| **14.4. Packing group** | not regulated |
| **14.5. ERG Code** | none |
| **14.6. Special Provisions** | None |

## 15. REGULATORY INFORMATION

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

**International Inventories**

| | |
|---|---|
| **EINECS/ELINCS** | Complies |
| **TSCA** | Complies |
| **DSL/NDSL** | Complies |
| **ENCS** | Complies |
| **IECSC** | Complies |
| **KECL** | Complies |
| **PICCS** | Complies |
| **AICS** | Complies |

**Legend**
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
**ENCS** - Japan Existing and New Chemical Substances
**IECSC** - China Inventory of Existing Chemical Substances
**AICS** - Australian Inventory of Chemical Substances
**KECL** - Korean Existing and Evaluated Chemical Substances

### 15.2 Chemical Safety Assessment

No information available

## 16. OTHER INFORMATION

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

R31 - Contact with acids liberates toxic gas
R22 - Harmful if swallowed
R35 - Causes severe burns
R10 - Flammable
R61 - May cause harm to the unborn child
R41 - Risk of serious damage to eyes

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

H360FD - May damage fertility. May damage the unborn child
H314 - Causes severe skin burns and eye damage
H226 - Flammable liquid and vapour
H302 - Harmful if swallowed
EUH031 - Contact with acids liberates toxic gas
H318 - Causes serious eye damage

**Revision Date** 2012-11-15

**Revision Note** Update to EU transitional SDS format

**Disclaimer**

**The information provided on this SDS 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.**