Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 05/04/2017 Version: 0.0 Doc. No: SDS-909.036/1

Product identifier



SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product form Substance name EC-No. CAS-No. Type of product Formula Chemical structure

1.1.

: Substance

- : Calcium nitrate, tetrahydrate
- : 233-332-1
- : 13477-34-4
- : Pure substance
- : Ca(NO3)2.4H2O

Ca²⁺

Synonyms

: calcium dinitrate tetrahydrate / Calcium nitrate / calcium nitrate, 4-hydrate / calcium(II) nitrate,tetrahydrate / nitric acid calcium salt,tetrahydrate / nitric acid, calcium salt, tetrahydrate

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

1.2.1. Relevant identified uses

Use of the substance/mixture

: Anti-corrosion agent Chemical raw material Laboratory Chemical Fertilizer Explosive: additive

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

ISOLAB Laborgeräte GmbH Am Dillhof 2 - 63863 Eschau / GERMANY Tel: + 49 93 74 / 978 55-0 Fax: +49 93 74 / 978 55-29 prodsafe@isolab.de

1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number | Comment |
|---------|--|-----------------------------------|------------------|---------|
| Germany | Giftnotruf der Charité CBF, Haus VIII (Wirtschaftgebäude), UG | Hindenburgdamm 30 12203 Berlin | +49 30 19240 | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Ox. Sol. 3 H272

Eye Irrit. 2 H319

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) :



Signal word (CLP)

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| Hazard statements (CLP) | : H272 - May intensify fire; oxidiser H319 - Causes serious eye irritation |
|--------------------------------|---|
| | H302 - Harmful if swallowed |
| | H318 - Causes serious eye damage |
| Precautionary statements (CLP) | : P280 - Wear eye protection |
| | P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing |
| | P313: Get medical advice/ attention |

2.3. Other hazards

No additional information available

| SECTION 3: Composition/information on ingredients | | | |
|---|--|-----|--|
| 3.1. Substances | | | |
| Name | Product identifier | % | |
| Calcium nitrate,tetrahydrate | (CAS-No.) 13477-34-4 (EC-No.) 233-332-1 | 100 | |

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

| SEC | SECTION 4: First aid measures | | | |
|-------------------------------------|-----------------------------------|--|-------------------------|--|
| 4.1. | Description of first aid measures | | | |
| First-a | aid measures general | : Check the vital functions. Unconscious: maintain adequate airway and respiration. Res arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim cons with laboured breathing: half-seated. Victim in shock: on his back with legs slightly rais Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the vict warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, a physical strain. Depending on the victim's condition: doctor/hospital. | scious ed. im (no | |
| First-a | aid measures after inhalation | : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service | e. | |
| First-a | aid measures after skin contact | : Rinse with water. Soap may be used. Take victim to a doctor if irritation persists. | | |
| First-a | aid measures after eye contact | Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to ophthalmologist if irritation persists. | o an | |
| First-a | aid measures after ingestion | : Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Call Po Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you fee Ingestion of large quantities: immediately to hospital. Doctor: administration of chemica antidote. | el unwe | |
| 4.2. | Most important symptoms and e | cts, both acute and delayed | | |
| Symp | toms/effects after inhalation | : AFTER INHALATION OF DUST: Dry/sore throat. Coughing. Irritation of the respiratory Irritation of the nasal mucous membranes. | tract. | |
| Symptoms/effects after skin contact | | : Red skin. Itching. | | |
| Symptoms/effects after eye contact | | : Redness of the eye tissue. Irritation of the eye tissue. | | |
| Symptoms/effects after ingestion | | : Nausea. Abdominal pain. AFTER ABSORPTION OF HIGH QUANTITIES: Methemogle Blue/grey discolouration of the skin. Feeling of weakness. Dizziness. Respiratory difficu | | |
| 4.3. | Indication of any immediate med | al attention and special treatment needed | | |
| | ditional information available | | | |

No additional information available

| SECTION 5: Fire-fighting measur | es |
|--|--|
| 5.1. Extinguishing media | |
| Suitable extinguishing media | : Water. |
| Unsuitable extinguishing media | : No unsuitable extinguishing media known. |
| 5.2. Special hazards arising from the | e substance or mixture |
| Fire hazard | : DIRECT FIRE HAZARD. Non combustible. INDIRECT FIRE HAZARD. Promotes combustion. Reactions involving a fire hazard: see "Reactivity Hazard". |
| Explosion hazard | : INDIRECT EXPLOSION HAZARD. Reactions with explosion hazards: see "Reactivity Hazard". |

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| Precautionary measures fire | : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows. |
|--|---|
| Firefighting instructions | : Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed heat. Dilute toxic gases with water spray. |
| Protection during firefighting | : Heat/fire exposure: compressed air/oxygen apparatus. |
| SECTION 6: Accidental release mo | easures |
| 6.1. Personal precautions, protective | equipment and emergency procedures |
| 6.1.1. For non-emergency personnel | |
| Protective equipment | : Gloves. Safety glasses. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Reactivity hazard: compressed air/oxygen apparatus. Reactivity hazard: gas-tight suit. See "Material-Handling" to select protective clothing. |
| Emergency procedures | : Mark the danger area. No naked flames. Keep containers closed. Wash contaminated clothes In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation |
| 6.1.2. For emergency responders No additional information available | |
| 6.2. Environmental precautions | |
| Prevent spreading in sewers. | |
| 6.3. Methods and material for contain | nment and cleaning up |
| For containment | Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the solid spill. If reactin dilute toxic gas/vapour with water spray. Take account of toxic/corrosive precipitation water. |
| Methods for cleaning up | : Cover spill with non combustible material, e.g.: sand/earth or powdered limestone. Scoop soli spill into closing containers or bags. See "Material-handling" for suitable container materials. Carefully collect the spill/leftovers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. |
| 6.4. Reference to other sections | |
| No additional information available | |
| SECTION 7: Handling and storage | |
| 7.1. Precautions for safe handling | |
| Precautions for safe handling | : Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep the substance free from contamination. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. |
| 7.2. Conditions for safe storage, inclu | uding any incompatibilities |
| Storage temperature | : < 30 °C |
| Heat and ignition sources | : KEEP SUBSTANCE AWAY FROM: heat sources. |
| Information on mixed storage | : KEEP SUBSTANCE AWAY FROM: combustible materials. reducing agents. (strong) acids. (strong) bases. organic materials. water/moisture. |
| Storage area | : Store in a cool area. Keep out of direct sunlight. Store in a dry area. Keep only in the original container. Meet the legal requirements. |
| Special rules on packaging | : SPECIAL REQUIREMENTS: closing. watertight. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers. |
| | : SUITABLE MATERIAL: synthetic material. MATERIAL TO AVOID: paper. cardboard. wood. |
| Packaging materials | |
| Packaging materials 7.3. Specific end use(s) No additional information available | |

8.2. Exposure controls

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Materials for protective clothing:

GIVE GOOD RESISTANCE: butyl rubber. PVC

Hand protection:

Gloves

Eye protection:

Safety glasses. In case of dust production: protective goggles

Skin and body protection:

Protective clothing

Respiratory protection:

Dust production: dust mask with filter type P2

| ISOLAB |
|------------------|
| <i>chemicals</i> |

| SECTION 9: Physical and chemical properties | | | |
|--|--|--|--|
| 9.1. Information on basic physical and chemical properties | | | |
| Physical state | : Solid | | |
| Appearance | : Crystalline solid. | | |
| Molecular mass | : 236.15 g/mol | | |
| Colour | : Colourless to white. | | |
| Odour | : Odourless. | | |
| Odour threshold | : No data available | | |
| рН | : 5.0 - 7.0 (50 g/l, H ₂ O, 25 °C) | | |
| pH solution | : 5% | | |
| Relative evaporation rate (butylacetate=1) | : No data available | | |
| Melting point | : 45 °C | | |
| Freezing point | : No data available | | |
| Boiling point | : Not applicable | | |
| Flash point | : Not applicable | | |
| Auto-ignition temperature | : No data available | | |
| Decomposition temperature | : 42 °C | | |
| Flammability (solid, gas) | : No data available | | |
| Vapour pressure | : No data available | | |
| Relative vapour density at 20 °C | : No data available | | |
| Relative density | : 1.8 | | |
| Density | : 1820 kg/m³ | | |
| Solubility | : Soluble in water. Soluble in ethanol. Soluble in acetone. Water: 2710 g/l (40 °C) | | |
| Log Pow | : No data available | | |
| Viscosity, kinematic | : No data available | | |
| Viscosity, dynamic | : No data available | | |
| Explosive properties | : No data available | | |
| Oxidising properties | : May intensify fire; oxidiser. | | |
| Explosive limits | : No data available | | |
| 9.2. Other information | | | |
| VOC content | : Not applicable | | |
| Other properties | : Hygroscopic. | | |
| | | | |

SECTION 10: Stability and reactivity

10.1. Reactivity

Decomposes on exposure to temperature rise: release of toxic and corrosive gases/vapours (nitrous vapours) and oxidation resulting in increased fire or explosion risk. Reacts with combustible materials: risk of spontaneous ignition. Violent to explosive reaction with many compounds e.g.: with organic material, with (strong) reducers and with (some) bases. Reacts violently with (some) acids: release of toxic and corrosive gases/vapours (nitrous vapours).

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| 10.0 | Chamical stability | |
|-------------------------------------|------------------------------------|--|
| 10.2. | Chemical stability | |
| Hygrosc | copic. | |
| 40.0 | | |
| 10.3. | Possibility of hazardous reactions | |
| No additional information available | | |
| | | |
| 10.4. | Conditions to avoid | |
| No additional information available | | |
| | | |
| 10.5. | Incompatible materials | |
| No addit | tional information available | |
| | | |
| 10.6. | Hazardous decomposition products | |
| | | |

No additional information available

| SECTION 11: Toxicological information | | |
|--|----------------------------------|--|
| 11.1. Information on toxicological | effects | |
| Acute toxicity | : Not classified | |
| Calcium nitrate, tetrahydrate (13477-3 | 4-4) | |
| LD50 oral rat | 300-2000 mg/kg | |
| Skin corrosion/irritation | : Not classified | |
| | pH: 4.5 - 7.0 (5 %) | |
| Serious eye damage/irritation | : Causes serious eye irritation. | |
| | pH: 4.5 - 7.0 (5 %) | |
| Respiratory or skin sensitisation | : Not classified | |
| Germ cell mutagenicity | : Not classified | |
| Carcinogenicity | : Not classified | |
| Reproductive toxicity | : Not classified | |
| STOT-single exposure | : Not classified | |
| STOT-repeated exposure | : Not classified | |
| Aspiration hazard | : Not classified | |
| | | |

| SECTION 12: Ecological information | |
|---|---|
| 12.1. Toxicity | |
| Ecology - air | : Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). TA-Luft Klasse 5.2.1. |
| Ecology - water | : Mild water pollutant (surface water). Ground water pollutant. For Flanders: maximum concentration in drinking water: 270 mg/l (calcium)(M.B. 28/1/2003). Maximum concentration in drinking water: 50 mg/l (nitrate) (Directive 98/83/EC). Not harmful to fishes (LC50(96h) >1000 mg/l). May cause eutrophication. Insufficient data available on ecotoxicity. |
| Calcium nitrate.tetrahvdrate (13477-34-4) | |

| Calcium nitrate, tetrahydrate (13477-34-4) | |
|--|-------------------------|
| LC50 fish 2 | 10000 mg/l (LC50; 96 h) |
| EC50 Daphnia 1 | 2355 mg/l (LC50; 120 h) |
| | |

| 12.2. Persistence and degradability | | | |
|---|-------------------------------------|--|--|
| Calcium nitrate, tetrahydrate (13477-34-4) | | | |
| Persistence and degradability | Biodegradable in the soil. | | |
| Biochemical oxygen demand (BOD) | Not applicable | | |
| Chemical oxygen demand (COD) Not applicable | | | |
| ThOD | Not applicable | | |
| 12.3. Bioaccumulative potential | | | |
| Calcium nitrate, tetrahydrate (13477-34-4) | | | |
| Bioaccumulative potential | Not bioaccumulative. | | |
| 12.4. Mobility in soil | | | |
| No additional information available | lo additional information available | | |

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Results of PBT and vPvB assessment 12.5.

No additional information available

Other adverse effects 12.6.

No additional information available **SECTION 13: Disposal considerations** 13.1. Waste treatment methods : Remove waste in accordance with local and/or national regulations. Hazardous waste shall not Product/Packaging disposal recommendations be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Precipitate/make insoluble. Remove to an authorized dump (Class I). Do not discharge into surface water. Additional information : Hazardous waste according to Directive 2008/98/EC. European List of Waste (LoW) code : 06 10 02* - wastes containing dangerous substances **SECTION 14: Transport information**

accordance with ADR / RID / IMDG / IATA / ADN

| In accordance with ADR / F | RID / IMDG / IATA / ADN | | | |
|---|--|--------------------------------------|--------------------------------------|--------------------------------------|
| ADR | IMDG | IATA | ADN | RID |
| 14.1. UN number | • | | • | |
| 1454 | 1454 | 1454 | 1454 | 1454 |
| 14.2. UN proper shipp | bing name | | | |
| CALCIUM NITRATE | CALCIUM NITRATE | Calcium nitrate | CALCIUM NITRATE | CALCIUM NITRATE |
| Transport document desc | ription | | - I | |
| UN 1454 CALCIUM NITRATE, 5.1, III, (E) | UN 1454 CALCIUM NITRATE, 5.1, III | UN 1454 Calcium nitrate, 5.1, III | UN 1454 CALCIUM NITRATE, 5.1, III | UN 1454 CALCIUM NITRATE, 5.1, III |
| 14.3. Transport hazar | d class(es) | | | |
| 5.1 | 5.1 | 5.1 | 5.1 | 5.1 |
| 5.1 | 5.1 | 5.1 | 5.1 | 5.1 |
| 14.4. Packing group | | | | |
| III | III | 111 | III | 111 |
| 14.5. Environmental h | | | | |
| Dangerous for the environment : No | Dangerous for the environment : No Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |
| | N | o supplementary information ava | ailable | |

14.6. Special precautions for user

| - Overland transport | |
|---|---------------------------|
| Classification code (ADR) | : O2 |
| Special provisions (ADR) | : 208 |
| Limited quantities (ADR) | : 5kg |
| Excepted quantities (ADR) | : E1 |
| Packing instructions (ADR) | : P002, IBC08, LP02, R001 |
| Mixed packing provisions (ADR) | : MP10 |
| Portable tank and bulk container instructions (ADR) | : T1, BK1, BK2 |
| Portable tank and bulk container special provisions (ADR) | : TP33 |
| Tank code (ADR) | : SGAV |
| Tank special provisions (ADR) | : TU3 |
| Vehicle for tank carriage | : AT |
| Transport category (ADR) | : 3 |
| Special provisions for carriage - Bulk (ADR) | : VC1, VC2, AP6, AP7 |
| 06/04/2017 | EN (English) |

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| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV24 |
|---|--|
| Hazard identification number (Kemler No.) | : 50 |
| Orange plates | 50 |
| | 50 |
| | 1454 |
| | |
| Tunnel restriction code (ADR) | : E |
| EAC code | : 1Z |
| - Transport by sea | |
| Transport regulations (IMDG) | : Subject |
| Special provisions (IMDG) | : 208, 967 |
| Limited quantities (IMDG) | : 5 kg |
| Excepted quantities (IMDG) | : E1 |
| Packing instructions (IMDG) | : P002, LP02 |
| IBC packing instructions (IMDG) | : IBC08 |
| IBC special provisions (IMDG) | : B3 |
| Tank instructions (IMDG) | : T1, BK2, BK3 |
| Tank special provisions (IMDG) | : TP33 |
| EmS-No. (Fire) | : F-A |
| EmS-No. (Spillage) | : S-Q |
| Stowage category (IMDG) | : A |
| Stowage and handling (IMDG) | : SW23 |
| Properties and observations (IMDG) | : White deliquescent solid, soluble in water. Mixtures with combustible material are readily |
| | ignited and may burn fiercely. Harmful if swallowed. |
| MFAG-No | : 140 |
| - Air transport | |
| Transport regulations (IATA) | : Subject to the provisions |
| PCA Excepted quantities (IATA) | : E1 |
| PCA Limited quantities (IATA) | : Y546 |
| PCA limited quantity max net quantity (IATA) | : 10kg |
| PCA packing instructions (IATA) | : 559 |
| PCA max net quantity (IATA) | : 25kg |
| CAO packing instructions (IATA) | : 563 |
| CAO max net quantity (IATA) | : 100kg |
| Special provisions (IATA) | : A83 |
| ERG code (IATA) | : 5L |
| Inland waterway transport | |
| Classification code (ADN) | : O2 |
| Special provisions (ADN) | : 208 |
| Limited quantities (ADN) | : 5 kg |
| Excepted quantities (ADN) | : E1 |
| Carriage permitted (ADN) | : B |
| Equipment required (ADN) | : PP |
| Provisions prior to loading (ADN) | : LO04 |
| Provisions for carriage in bulk (ADN) | : CO02 |
| Number of blue cones/lights (ADN) | : 0 |
| - Rail transport | |
| Transport regulations (RID) | : Subject |
| Classification code (RID) | : 02 |
| Special provisions (RID) | : 208 |
| Limited quantities (RID) | : 5kg |
| Excepted quantities (RID) | : E1 |
| Packing instructions (RID) | : P002, IBC08, LP02, R001 |
| | |

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| DUC. NO. 3D3-909.030/1 | |
|--|----------------------|
| Special packing provisions (RID) | : B3 |
| Mixed packing provisions (RID) | : MP10 |
| Portable tank and bulk container instructions (RID) | : T1, BK1, BK2 |
| Portable tank and bulk container special provisions (RID) | : TP33 |
| Tank codes for RID tanks (RID) | : SGAV |
| Special provisions for RID tanks (RID) | : TU3 |
| Transport category (RID) | : 3 |
| Special provisions for carriage – Bulk (RID) | : VC1, VC2, AP6, AP7 |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW24 |
| Colis express (express parcels) (RID) | : CE11 |
| Hazard identification number (RID) | : 50 |
| | |

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

| SECTION 15: Regulatory information |
|------------------------------------|
|------------------------------------|

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions Calcium nitrate,tetrahydrate is not on the REACH Candidate List Calcium nitrate,tetrahydrate is not on the REACH Annex XIV List

VOC content

: Not applicable

15.1.2. National regulations

VwVwS Annex reference

Germany

Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 1 or 2; ID No. 321)
Classification water polluting in compliance with Verwaltungsvorschrift wassergefährdender

- Stoffe (VwVwS) of 27 July 2005 (Anhang 2)
- : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

WGK remark

| Nethenando | | |
|---|---|-----------------------------|
| SZW-lijst van kankerverwekkende stoffen | : | The substance is not listed |
| SZW-lijst van mutagene stoffen | : | The substance is not listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding | : | The substance is not listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid | : | The substance is not listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling | : | The substance is not listed |
| | | |
| 1E.2 Chamical actaby apparament | | |

15.2. Chemical safety assessment

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV

No additional information available

SECTION 16: Other information

| Abbreviations | s and acronyms: | |
|---------------|---|--|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways | |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road | |
| ATE | Acute Toxicity Estimate | |
| BCF | Bioconcentration factor | |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 | |
| EC50 | Median effective concentration | |
| IARC | International Agency for Research on Cancer | |

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| ΙΑΤΑ | International Air Transport Association |
|--------------|---|
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| PBT | Persistent Bioaccumulative Toxic |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| vPvB | Very Persistent and Very Bioaccumulative |
| Data sources | REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARI IAMENT AND OF THE |

Data sources

C) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF · I HE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

| Full text of H- and EUH-s | atements: |
|---------------------------|---|
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Ox. Sol. 3 | Oxidising Solids, Category 3 |
| H272 | May intensify fire; oxidiser |
| H319 | Causes serious eye irritation |
| H302 | Harmful if swallowed |
| H318 | Causes serious eye damage |

SDS ISOLAB

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product