

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

**1.1 Product Identifier:**

**Trade name: OXYDES H.5**

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

**Product category:** PC8 Biocidal products

**Application of the substance / the mixture:** Professional use only

**1.3 Details of the supplier of the safety data sheet:**

**Manufacturer / Importer / Supplier:**

Hygeniq  
 Postbus 618  
 7500 AP Enschede  
 The Netherlands  
 Tel.: +31 53 4282860  
 Fax: +31 53 5393865  
 Email: info@hygeniq.com  
 www.hygeniq.com

**Further information obtainable from:** Product safety department.

**1.4 Emergency telephone number:**

Only for DOCTORS / FIRE BRIGADE / POLICE:

NL-Phone: +31 53 4282860 (During office hours)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture:**

**Classification according to Regulation (EC) No 1272/2008:**



GHS02 flame

Self-react. D H242 Heating may cause a fire.



GHS05 corrosion

Met. Corr.1 H290 May be corrosive to metals.  
 Skin Corr. 1A H314 Causes severe skin burns and eye damage.  
 Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.  
 Acute Tox. 4 H312 Harmful in contact with skin.  
 STOT SE 3 H335 May cause respiratory irritation.

**2.2 Label elements:**

**Labelling according to Regulation (EC) No 1272/2008:** The product is classified and labelled according to the CLP regulation.

**Hazard pictograms:** GHS02, GHS05, GHS07, GHS09

**Signal word:** Danger

**Hazard-determining components of labelling:**

hydrogen peroxide solution  
 acetic acid, of a concentration of more than 10 per cent, by weight, of acetic acid  
 peracetic acid



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### Hazard statements:

- H242 Heating may cause a fire.
- H290 May be corrosive to metals.
- H302+H312 Harmful if swallowed or in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H335 May cause respiratory irritation.
- H410 Very toxic to aquatic life with long lasting effects.

### Precautionary statements:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P235 Keep cool.
- P260 Do not breathe dusts or mists.
- P280 Wear protective gloves/protective clothing/eye protection/face 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.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### Additional information:

EUH071 Corrosive to the respiratory tract.

### 2.3 Other hazards:

#### Results of PBT and vPvB assessment:

**PBT:** Not applicable.

**vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

### 3.2 Chemical characterisation: Mixtures:

**Description:** Mixture of substances listed below, possibly with non-hazardous additions.

#### Components:

CAS: 7722-84-1 EINECS: 231-765-0 Index number: 008-003-00-9 Reg.nr.: 01-2119485845-22	hydrogen peroxide solution ☠ Ox. Liq. 1, H271; ☠ Skin Corr. 1A, H314; ☠ Acute Tox. 4, H302; Acute Tox. 4, H332	10-25%
CAS: 64-19-7 EINECS: 200-580-7 Index number: 607-002-00-6 Reg.nr.: 01-2119475328-30	acetic acid, of a concentration of more than 10 per cent, by weight, of acetic acid ☠ Flam. Liq. 3, H226; ☠ Skin Corr. 1A, H314; ☠ Acute Tox. 4, H312; Acute Tox. 4, H332	2.5-10%
CAS: 79-21-0 EINECS: 201-186-8 Index number: 607-094-00-8	peracetic acid ☠ Flam. Liq. 3, H226; Org. Perox. D, H242; ☠ Skin Corr. 1A, H314; ☠ Aquatic Acute 1, H400; ☠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	2.5-10%

#### Ingredients according to detergents regulation (EC nr. 648/2004):

oxygen-based bleaching agents	≥15 - <30%
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**Additional information:** For the wording of the listed hazard phrases See section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures:

#### General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Take affected persons out of danger area and lay down.

Persons, providing assistance, should avoid exposure and danger for themselves or others.

#### After inhalation:

Remove the victim into fresh air, and keep at rest in a position that facilitates breathing.

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

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### After skin contact:

Take off contaminated clothing immediately and wash the skin with plenty of water (possibly showering).  
Rinse with plenty of water and wash with soap. Treat skin with, for example polyethyleneglycol 400.  
If skin irritation continues, consult a doctor.

### After eye contact:

If possible, remove contact lenses.  
Rinse opened eye for several minutes (at least 15 minutes) under running water. If symptoms persist, consult a doctor.

### After ingestion:

DO NOT INDUCE VOMITING!  
Rinse out mouth and then drink plenty of water.  
Call a physician or transport to hospital.

**4.2 Most important symptoms and effects, both acute and delayed:** No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media:

#### Suitable extinguishing agents:

CO<sub>2</sub>, powder, foam or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

Has a fire-promoting effect due to release of oxygen.  
Formation of irritating or corrosive gases is possible during heating or in case of fire.

### 5.3 Advice for firefighters:

#### Protective equipment:

Mouth respiratory protective device.  
Wear self-contained respiratory protective device.

**Additional information:** Cool endangered tanks with water spray.

## SECTION 6: Accidental release measures

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

Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.  
Avoid breathing vapor and contact with eyes, skin and clothing.

### 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.  
Prevent seepage into sewage system, workpits and cellars.  
Inform respective authorities in case of seepage into water course or sewage system.  
Remainder dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralising agent.

Weak alkaline solution

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

### 6.4 Reference to other sections:

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.

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**Information about fire and explosion protection:**

Keep ignition sources away - Do not smoke.  
 Protect against electrostatic charges.  
 Keep respiratory protective device available.

**7.2 Conditions for safe storage, including any incompatibilities:** Storage must comply with the local regulations.

**Storage:**

**Requirements to be met by storerooms and tanks:** Keep in a cool, dry place, protected from direct sunlight.

**Information about storage in one common storage facility:**

Do not store together with alkalis (caustic solutions).  
 Store away from flammable substances.

**Further information about storage conditions:**

Keep container tightly sealed.  
 Do not seal receptacle gas tight.  
 Store in cool, dry conditions in well sealed receptacles.  
 Protect from heat and direct sunlight.

**7.3 Specific end use(s):** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

**Additional information about design of technical facilities:** No further data; see section 7.

**8.1 Control parameters:**

**Ingredients with limit values that require monitoring at the workplace:**

**7722-84-1 hydrogen peroxide solution**

WEL (Great Britain)	Short-term value: 2.8 mg/m <sup>3</sup> , 2 ppm Long-term value: 1.4 mg/m <sup>3</sup> , 1 ppm
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**64-19-7 acetic acid, of a concentration of more than 10 per cent, by weight, of acetic acid**

WEL (Great Britain)	Short-term value: 50 mg/m <sup>3</sup> , 20 ppm Long-term value: 25 mg/m <sup>3</sup> , 10 ppm
IOELV (EU)	Short-term value: 50 mg/m <sup>3</sup> , 20 ppm Long-term value: 25 mg/m <sup>3</sup> , 10 ppm

**DNELs**

**7722-84-1 hydrogen peroxide solution**

Inhalative	Long-term - local effects	0.21 mg/m <sup>3</sup> (Consumer) 1.4 mg/m <sup>3</sup> (Worker)
	Acute - local effects	1.93 mg/m <sup>3</sup> (Consumer) 3 mg/m <sup>3</sup> (Worker)

**64-19-7 acetic acid, of a concentration of more than 10 per cent, by weight, of acetic acid**

Inhalative	Long-term - local effects	25 mg/m <sup>3</sup> (Worker)
	Acute - local effects	25 mg/m <sup>3</sup> (Worker)

**PNECs**

**7722-84-1 hydrogen peroxide solution**

Fresh water	0.0126 mg/l
Marine water	0.0126 mg/l
Intermittent releases	0.0138 mg/l
Fresh water sediment	0.047 mg/kg
Marine sediment	0.047 mg/kg
Soil	0.0019 mg/kg
Sewage treatment	466 mg/l

**64-19-7 acetic acid, of a concentration of more than 10 per cent, by weight, of acetic acid**

Fresh water	3.058 mg/l
Marine water	0.3058 mg/l

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Intermittent releases	30.58 mg/l
Fresh water sediment	11.36 mg/kg
Marine sediment	1.136 mg/kg
Soil	0.478 mg/kg
Sewage treatment	85 mg/l

**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

**Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter A/P2

**Protection of hands:**



Protective gloves

Use protective gloves to EN ISO 374-1

Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

PVC gloves

**Penetration time of glove material:**

Permeation: Breakthrough time - > 480 min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**



Tightly sealed goggles

Use safety glasses that meets the requirements of EN 166; latest versions.

**Body protection:** Protective work clothing

**Limitation and supervision of exposure into the environment:** Prevent spills from reaching surface waters or soil.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties:**

**General Information:**

**Appearance:**

<b>Form:</b>	Liquid.
<b>Colour:</b>	Colourless.
<b>Odour:</b>	Pungent
<b>Odour threshold:</b>	Not determined.

**pH-value at 20 °C:** 3.5

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### Change in condition

**Melting point/freezing point:** Not determined.  
**Initial boiling point and boiling range:** 118 °C

**Flash point:** 100 °C

**Flammability (solid, gas):** Not applicable.

**Ignition temperature:** 485 °C

**Decomposition temperature:** Not determined.

**Auto-ignition temperature:** Product is not self-igniting.

**Explosive properties:** Product does not present an explosion hazard.

### Explosion limits:

**Lower:** 4 Vol %  
**Upper:** 17 Vol %

**Vapour pressure at 20 °C:** 27 hPa

**Density at 20 °C:** 1.11 g/cm<sup>3</sup>

**Relative density:** Not determined.

**Vapour density:** Not determined.

**Evaporation rate:** Not determined.

### Solubility in / Miscibility with:

**Water:** Fully miscible.

**Partition coefficient: n-octanol/water:** Not determined.

### Viscosity:

**Dynamic:** Not determined.

**Kinematic:** Not determined.

### Solvent content:

**Oxidizing properties:** Product is oxidizing.

**9.2 Other information:** No further relevant information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity:

Reacts violently with bases.

The product is a strong oxidant and reacts violently with combustible and reducing materials.

### 10.2 Chemical stability:

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**10.3 Possibility of hazardous reactions:** No dangerous reactions known.

### 10.4 Conditions to avoid:

Heat

Keep away from open flames, hot surfaces and sources of ignition.

### 10.5 Incompatible materials:

Reducing Agents

Flammable substances

Alkali

**10.6 Hazardous decomposition products:** Oxygen

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects:****Acute toxicity:**

Harmful if swallowed or in contact with skin.

**LD/LC50 values relevant for classification:****ATE (Acute Toxicity Estimates)**

Oral	LD50	1,736 mg/kg
Dermal	LD10	7,153 mg/kg
Inhalative	LD50/2 h	31.7 mg/m <sup>3</sup>

**7722-84-1 hydrogen peroxide solution**

Oral	LD50	420 mg/kg (Rat)
Inhalative	LC50/4 h	mg/l (Rat)

**64-19-7 acetic acid, of a concentration of more than 10 per cent, by weight, of acetic acid**

Oral	LD50	3,310 mg/kg (Rat)
Dermal	LD50	1,060 mg/kg (rbt)
Inhalative	LC50/4 h	11.4 mg/l (Rat)

**79-21-0 peracetic acid**

Oral	LD50	500 mg/kg (ATE)
Dermal	LD10	1,100 mg/kg (ATE)
Inhalative	LD50/2 h	11 mg/m <sup>3</sup> (ATE)

**Primary irritant effect:****Skin corrosion/irritation:**

Causes severe skin burns and eye damage.

**Serious eye damage/irritation:**

Causes serious eye damage.

**Respiratory or skin sensitization:** Based on available data, the classification criteria are not met.**CMR effects (carcinogenic, mutagenic and reprotoxic):****Germ cell mutagenicity:** Based on available data, the classification criteria are not met.**Carcinogenicity:** Based on available data, the classification criteria are not met.**Reprotoxicity:** Based on available data, the classification criteria are not met.**STOT-single exposure:**

May cause respiratory irritation.

**STOT-repeated exposure:** Based on available data, the classification criteria are not met.**Aspiration hazard:** Based on available data, the classification criteria are not met.**SECTION 12: Ecological information****12.1 Toxicity:****Aquatic toxicity:****7722-84-1 hydrogen peroxide solution**

LC50/96h	5.74 mg/l (Pimephales promelas)
EC50/24h	0.25 mg/l (Daphnia Magna)
EC50/72h	0.875 mg/l (Algae)
NOEC / 21d	0.63 mg/l (Daphnia Magna)

**64-19-7 acetic acid, of a concentration of more than 10 per cent, by weight, of acetic acid**

Biodegradability - 28d	99 %
LC50/96h	75 mg/l (Fish)
IC5 / 16h	4,000 mg/l (Algae)
EC5 / 16h	2,850 mg/l (Bateria)

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EC5 / 15 min	11 mg/l (Bateria)
EC50/24h	47 mg/l (Daphnia Magna)
EC50/72h	>300.82 mg/l (Algae)

**12.2 Persistence and degradability:** No further relevant information available.

**12.3 Bioaccumulative potential:** No further relevant information available.

**12.4 Mobility in soil:** No further relevant information available.

**Additional ecological information:**

**General notes:**

Must not reach sewage water or drainage ditch undiluted or unneutralised.  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

**12.5 Results of PBT and vPvB assessment:**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects:** No further relevant information available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods:**

**Recommendation:**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

**Contaminated packaging:**

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

**SECTION 14: Transport information**

**14.1 UN-Number:**

ADR/RID/ADN, IMDG, IATA

UN3149

**14.2 UN proper shipping name:**

ADR/RID/ADN:

3149 HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED, ENVIRONMENTALLY HAZARDOUS

IMDG:

HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED, MARINE POLLUTANT

IATA:

HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

**14.3 Transport hazard class(es):**

ADR/RID/ADN:



**Class:**

5.1 (OC1) Oxidising substances.

**Label:**

5.1+8

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**IMDG:**



**Class:** 5.1 Oxidising substances.  
**Label:** 5.1/8

**IATA:**



**Class:** 5.1 Oxidising substances.  
**Label:** 5.1 (8)

**14.4 Packing group:**  
**ADR/RID/ADN, IMDG, IATA** II

**14.5 Environmental hazards:**  
**Marine pollutant:** Symbol (fish and tree)  
**Special marking (ADR/RID/ADN):** Symbol (fish and tree)

**14.6 Special precautions for user:** Warning: Oxidising substances.  
**Hazard identification number (Kemler code):** 58  
**EMS Number:** F-H,S-Q  
**Segregation groups:** Peroxides  
**Stowage Category:** B  
**Stowage Code:** SW2 Clear of living quarters.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Not applicable.

**Transport/Additional information:**

**ADR/RID/ADN:**  
**Limited quantities (LQ):** 1L  
**Excepted quantities (EQ):** Code: E2  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 500 ml

**Transport category:** 2  
**Tunnel restriction code:** E

**IMDG:**  
**Limited quantities (LQ):** 1L  
**Excepted quantities (EQ):** Code: E2  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 500 ml

**UN "Model Regulation":** UN 3149 HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED, 5.1 (8), II, ENVIRONMENTALLY HAZARDOUS

**SECTION 15: Regulatory information**

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

**Directive 2012/18/EU:**  
**Named dangerous substances - ANNEX I:** None of the ingredients are listed.

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**Seveso category:**

P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

E1 Hazardous to the Aquatic Environment

**Qualifying quantity (tonnes) for the application of lower-tier requirements:** 50 t

**Qualifying quantity (tonnes) for the application of upper-tier requirements:** 200 t

**REGULATION (EC) No 1907/2006 ANNEX XVII:** Conditions of restriction: 3

**National regulations:** Not applicable

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

**Relevant phrases:**

H226 Flammable liquid and vapour.

H242 Heating may cause a fire.

H271 May cause fire or explosion; strong oxidiser.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

H400 Very toxic to aquatic life.

**Training hints:** Take care of good information, instruction and training for users.

**Abbreviations and acronyms:**

ADN: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (Division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

EC50: Effective Concentration, 50 percent

IOELVS: Indicative Occupational Exposure Limit Values

mPa.s: milliPascal per second

Flam. Liq. 3: Flammable liquids – Category 3

Self-react. D: Self-reactive substances and mixtures – Type C/D

Ox. Liq. 1: Oxidizing liquids – Category 1

Org. Perox. D: Organic peroxides – Type C/D

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 4: Acute toxicity - oral – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

**References:**

This information is based on the current available data (suppliers of raw materials, chemistry maps, Annex VI)

See also the internet site: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

**Revisions were made in sections marked with \*.**

**Disclaimer:**

The information provided in this Material Safety Data Sheet has been prepared with the utmost care and corresponds to the most recent information available to the supplier on the date of publication mentioned in the header of every page. The contents of this Material Safety Data Sheet should not be considered as a guarantee for certain product properties or fitness for particular purposes. It is the obligation of the user to determine whether the product is suitable for the specific purpose, intended use and the method of application. This Safety Data Sheet only relates to the product described and does not apply to any not defined use or the use of the product in combination with other materials, substances or products. It is the responsibility of the user to use and handle the product with care and to comply with all applicable laws and regulations. The supplier accepts no liability for direct or indirect damages resulting from improper use of this Material Safety Data Sheet and / or the products described therein.