

Silicon Tetrachloride

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Reference number: D-SiCl4-143 Issue date: 7/27/2023 Revision date: 8/30/2023 Version: 0.1

Danger





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

1.1. Product identifier

Trade name : Silicon Tetrachloride, Tetrachlorosilane

SDS no D-SiCl4-143

Other means of identification : Silicon Tetrachloride

> CAS-No. : 10026-04-7 EC-No. : 233-054-0 : 014-002-00-4 EC Index-No.

REACH registration No : 01-2119489367-22

Chemical formula : SiCL4

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

Relevant identified uses : Industrial use. Perform risk assessment prior to use.

> Test gas/Calibration gas. Chemical reaction / Synthesis.

Laboratory use.

Use for manufacture of electronic/photovoltaic components.

Uses advised against Consumer use.

Uses other than those listed above are not supported, contact your supplier for more

information on other uses.

1.3. Details of the supplier of the safety data sheet

Messer Industriegase GmbH

Messer- Platz 1

D - 65812 Bad Soden am Taunus

Germany

T +49 (0) 6196 7760-200 - F +49 (0) 6196 7760-280 SDB.de@messergroup.com - www.messer.de

1.4. Emergency telephone number

Emergency telephone number : Messer Produktionsgesellschaft mbH Salzgitter, +49 (0) 5341 21-9333, erreichbar Montags

0:00 bis Sonntags 24:00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Health hazards Acute toxicity (oral), Category 3 H301

> Skin corrosion/irritation, Category 1, Sub-Category 1A H314 Serious eye damage/eye irritation, Category 1 H318 Acute toxicity (inhal.), Category 3 H331

> > EN (English) 1/11



Silicon Tetrachloride

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: D-SiCl4-143

2.2. Label elements

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

Hazard pictograms (CLP)





GHS05

Signal word (CLP)

Hazard statements (CLP) H314 - Causes severe skin burns and eye damage.

> H301 - Toxic if swallowed. H331 - Toxic if inhaled.

EUH014 - Reacts violently with water. EUH071 - Corrosive to the respiratory tract.

Precautionary statements (CLP)

: P280 - Wear eye protection, face protection, protective clothing, protective gloves. - Prevention

P202 - Do not handle until all safety precautions have been read and understood.

P271 - Use only outdoors or in a well-ventilated area.

P260 - Do not breathe gas, vapours.

P262 - Do not get in eyes, on skin, or on clothing.

P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product.

: P303+P361+P353+P315 - IF ON SKIN : (or hair) Take off immediately all contaminated - Response

clothing. Rinse skin with water or shower. Get immediate medical advice.

P304+P340+P315 - IF INHALED : Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get immediate medical advice / attention.

P305+P351+P338+P315 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

2.3. Other hazards

- Storage

Not classified as PBT or vPvB.

The substance/mixture has no endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Silicon Tetrachloride	CAS-No.: 10026-04-7 EC-No.: 233-054-0 EC Index-No.: 014-002-00-4 REACH registration No: 01-2119489367- 22	100	Acute Tox. 3 (Oral), H301 Skin Corr. 1A, H314 Eye Dam. 1, H318 Acute Tox. 3 (Inhalation), H331

Contains no other components or impurities which will influence the classification of the product.

EN (English) 2/11



Silicon Tetrachloride

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Reference number: D-SiCl4-143

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

- Inhalation : Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep

victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing

stopped.

- Skin contact : Remove contaminated clothing. Drench affected area with water for at least 15 minutes.

Get immediate medical attention.

- Eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes.

Get immediate medical attention.

- Ingestion : Rinse mouth, do not induce vomiting. (If vomiting occurs, keep head low so that stomach

content doesn't get into lungs.). Get immediate medical attention.

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

May cause severe chemical burns to skin and cornea. Suitable first-aid treatment should be

immediately available. Seek medical advice before using product.

Material is destructive to tissue of the mucuous membranes and upper respiratory tract.

Cough, shortness of breath, headache, nausea.

See section 11.

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

Obtain medical assistance.

Treat with corticosteroid spray as soon as possible after inhalation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Product does not burn, use fire control measures appropriate for the surrounding fire.

- Unsuitable extinguishing media : Do not use extinguishing media containing water.

Do not use water jet to extinguish.

5.2. Special hazards arising from the substance or mixture

Specific hazards : Water reactive product.

Exposure to fire may cause containers to rupture/explode.

Hazardous combustion products : Silica dust (inert - but may irritate respiratory tract and eyes). Hydrogen chloride.

5.3. Advice for firefighters

Specific methods : Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat

radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering

sewers and drainage systems. If possible, stop flow of product.

Use water spray or fog to knock down fire fumes if possible.

Move containers away from the fire area if this can be done without risk.

Special protective equipment for fire fighters : Wear gas tight chemically protective clothing in combination with self contained breathing

apparatus.

Standard EN 943-2: Protective clothing against liquid and gaseous chemicals, aerosols and

solid particles. Gas-tight chemical protective suits for emergency teams.

Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full

face mask.

EN (English) 3/11



Silicon Tetrachloride

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Reference number: D-SiCl4-143

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Act in accordance with local emergency plan.

> Try to stop release. Evacuate area.

Ensure adequate air ventilation.

Stay upwind.

See section 8 of the SDS for more information on personal protective equipment.

For emergency responders : Wear self-contained breathing apparatus when entering area unless atmosphere is proved

to be safe.

Use chemically protective clothing. Monitor concentration of released product. See section 5.3 of the SDS for more information.

6.2. Environmental precautions

Prevent liquid from entering sewers, watercourses, and soil.

Try to stop release.

6.3. Methods and material for containment and cleaning up

Do not use water on leaking product.

Ventilate area.

6.4. Reference to other sections

See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safe use of the product

: Installation of a cross purge assembly between the container and the regulator is recommended.

Purge system with dry inert gas (e.g. helium or nitrogen) before gas is introduced and when system is placed out of service.

Avoid exposure, obtain special instructions before use. Do not use water on valves, flanges and other fittings.

The product must be handled in accordance with good industrial hygiene and safety

procedures.

Only experienced and properly instructed persons should handle gases under pressure.

Consider pressure relief device(s) in gas installations.

Ensure the complete gas system was (or is regularily) checked for leaks before use.

Do not smoke while handling product.

Use only properly specified equipment which is suitable for this product, its supply pressure

and temperature. Contact your gas supplier if in doubt.

Avoid suck back of water, acid and alkalis.

Do not breathe gas.

Avoid release of product into work area.

EN (English) 4/11



Silicon Tetrachloride

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: D-SiCl4-143

Safe handling of the gas receptacle

: Refer to supplier's container handling instructions.

Do not allow backfeed into the container.

Protect containers from physical damage; do not drag, roll, slide or drop.

When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders.

Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use.

If user experiences any difficulty operating valve discontinue use and contact supplier.

Never attempt to repair or modify container valves or safety relief devices.

Damaged valves should be reported immediately to the supplier.

Keep container valve outlets clean and free from contaminants particularly oil and water.

Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.

Close container valve after each use and when empty, even if still connected to equipment.

Never attempt to transfer gases from one cylinder/container to another.

Never use direct flame or electrical heating devices to raise the pressure of a container. Do not remove or deface labels provided by the supplier for the identification of the content of the container.

Suck back of water into the container must be prevented.

Open valve slowly to avoid pressure shock.

7.2. Conditions for safe storage, including any incompatibilities

Observe all regulations and local requirements regarding storage of containers.

Containers should not be stored in conditions likely to encourage corrosion.

Container valve guards or caps should be in place.

Containers should be stored in the vertical position and properly secured to prevent them from falling over.

Stored containers should be periodically checked for general condition and leakage.

Keep container below 50°C in a well ventilated place.

Store containers in location free from fire risk and away from sources of heat and ignition.

Keep away from combustible materials.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Silicon Tetrachloride (10026-04-7)			
DNEL: Derived no effect level (Workers)			
Long-term - local effects, inhalation	9.3 mg/m³		
Long-term - systemic effects, inhalation	85 mg/m³		
Long-term - systemic effects, dermal	12.1 mg/kg bw/day		

PNEC (Predicted No-Effect Concentration) : None established.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Product to be handled in a closed system.

Systems under pressure should be regularily checked for leakages.

Ensure exposure is below occupational exposure limits (where available).

Gas detectors should be used when toxic gases may be released.

Consider the use of a work permit system e.g. for maintenance activities.

EN (English) 5/11



Silicon Tetrachloride

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: D-SiCI4-143

8.2.2. Individual protection measures, e.g. personal protective equipment

A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk.

The following recommendations should be considered:

PPE compliant to the recommended EN/ISO standards should be selected. Wear goggles and a face shield when transfilling or breaking transfer connections.

Provide readily accessible eye wash stations and safety showers.

Standard EN 166 - Personal eye-protection - specifications.

· Skin protection

· Eye/face protection

: Wear working gloves when handling gas containers. - Hand protection

Wear chemically resistant protective gloves.

Standard EN 374 - Protective gloves against chemicals.

Standard EN 388 - Protective gloves against mechanical risks, performance level 1 or

higher.

Neoprene rubber (HNBR).

- Other Keep suitable chemically resistant protective clothing readily available for emergency use.

Standard EN943-1 - Full protective suits against liquid, solid and gaseous chemicals.

Wear safety shoes while handling containers.

Standard EN ISO 20345 - Personal protective equipment - Safety footwear.

· Respiratory protection Recommended: Filter AX (brown).

Keep self contained breathing apparatus readily available for emergency use.

Self contained breathing apparatus is recommended, where unknown exposure may be

expected, e.g. during maintenance activities on installation systems.

Gas filters may be used if all surrounding conditions e.g. type and concentration of the

contaminant(s) and duration of use are known.

Use gas filters with full face mask, where exposure limits may be exceeded for a short-term

period, e.g. connecting or disconnecting containers. Gas filters do not protect against oxygen deficiency.

Standard EN 14387 - Gas filter(s), combined filter(s) and standard EN136, full face masks . Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full

face mask.

· Thermal hazards None in addition to the above sections.

8.2.3. Environmental exposure controls

Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

- Physical state at 20°C / 101.3kPa : Liquid. - Colour

Sweetish. Poor warning properties at low concentrations. Odour

Melting point / Freezing point Not applicable for gases and gas mixtures.

Boiling point 56.9 °C Flammability Non flammable. Lower explosion limit : Not applicable. Not applicable. Upper explosion limit

: Not applicable for gases and gas mixtures. Flash point

: > 650 °C Auto-ignition temperature Decomposition temperature : Not applicable.

рΗ Not applicable for gases and gas mixtures. Viscosity, kinematic Not applicable for gases and gas mixtures.

Water solubility [20°C] : Not available Partition coefficient n-octanol/water (Log Kow) : Not known. Vapour pressure [20°C] : Not available Vapour pressure [50°C] : 0.29 bar(a) at 22.5 °C

Density and/or relative density : Not applicable for gases and gas mixtures.

Relative vapour density (air=1) Lighter or similar to air.

> EN (English) 6/11



Silicon Tetrachloride

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: D-SiCl4-143

Particle characteristics : Not applicable for gases and gas mixtures.

Nanoforms are not relevant for gases and gas mixtures.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Oxidising properties : No oxidising properties.

9.2.2. Other safety characteristics

Molar mass : 169.9 g/mol

SECTION 10: Stability and reactivity

10.1. Reactivity

No reactivity hazard other than the effects described in sub-sections below.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Avoid moisture in installation systems.

10.5. Incompatible materials

For additional information on compatibility refer to ISO 11114.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not

be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

 Acute toxicity
 : Toxic if inhaled.

 LD50 oral rat
 238 mg/kg

 LC50 Inhalation - Rat [ppm]
 1312 ppm/1h

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : No known effects from this product.

Germ cell mutagenicity : No known effects from this product.

Carcinogenicity : No known effects from this product.

Toxic for reproduction : Fertility : No known effects from this product.

Toxic for reproduction : unborn child : No known effects from this product.

STOT-single exposure : Severe corrosion to the respiratory tract at high concentrations.

STOT-repeated exposure : No known effects from this product.

Aspiration hazard : Not applicable for gases and gas mixtures.

11.2. Information on other hazards

Other information : The substance/mixture has no endocrine disrupting properties.

EN (English) 7/11



Silicon Tetrachloride

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: D-SiCl4-143

SECTION 12: Ecological information

12.1. Toxicity

Assessment : No ecological damage caused by this product.

 EC50 48h - Daphnia magna [mg/l]
 : > 844 mg/l

 EC50 72h - Algae [mg/l]
 : > 100 mg/l

 LC50 96 h - Fish [mg/l]
 : > 245 mg/l

12.2. Persistence and degradability

Assessment : Not applicable for inorganic products.

Study scientifically unjustified.

12.3. Bioaccumulative potential

Assessment : No ecological damage caused by this product.

12.4. Mobility in soil

Assessment : No ecological damage caused by this product.

12.5. Results of PBT and vPvB assessment

Assessment : Not classified as PBT or vPvB.

12.6. Endocrine disrupting properties

Assessment : The substance/mixture has no endocrine disrupting properties.

12.7. Other adverse effects

Other adverse effects : May cause pH changes in aqueous ecological systems.

Effect on the ozone layer : No effect on the ozone layer.

Effect on global warming : No known effects from this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Contact supplier if guidance is required.

Ensure that the emission levels from local regulations or operating permits are not

exceeded.

Refer to the EIGA code of practice Doc.30 "Disposal of Gases", downloadable at

http://www.eiga.eu for more guidance on suitable disposal methods.

Must not be discharged to atmosphere.

Return unused product in original container to supplier.

List of hazardous waste codes (from Commission

Decision 2000/532/EC as amended)

06 08 02*: wastes containing hazardous chlorosilanes.

16 05 04 *: Gases in pressure containers (including halons) containing hazardous

substances.

13.2. Additional information

External treatment and disposal of waste should comply with applicable local and/or

national regulations.

SECTION 14: Transport information

14.1. UN number or ID number

In accordance with ADR / RID / IMDG / IATA / ADN

UN-No. : 1818

EN (English) 8/11



Silicon Tetrachloride

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: D-SiCl4-143

14.2. UN proper shipping name

Transport by road/rail (ADR/RID) : SILICON TETRACHLORIDE

Transport by air (ICAO-TI / IATA-DGR) : Silicon tetrachloride

Transport by sea (IMDG) : SILICON TETRACHLORIDE

14.3. Transport hazard class(es)

Labelling

8

8 : Corrosive substances.

Transport by road/rail (ADR/RID)

Class : 8
Classification code : C1
Hazard identification number : X80

Tunnel Restriction : E - Passage forbidden through tunnels of category E

Transport by air (ICAO-TI / IATA-DGR)

Class / Div. (Sub. risk(s)) : 8

Transport by sea (IMDG)

Class / Div. (Sub. risk(s)) : 8
Emergency Schedule (EmS) - Fire : F-A
Emergency Schedule (EmS) - Spillage : S-B

14.4. Packing group

Transport by road/rail (ADR/RID) : II - substances presenting medium danger.

Transport by air (ICAO-TI / IATA-DGR) : II - Medium danger.

Transport by sea (IMDG) : II - substances presenting medium danger.

14.5. Environmental hazards

Transport by road/rail (ADR/RID) : None.
Transport by air (ICAO-TI / IATA-DGR) : None.
Transport by sea (IMDG) : None.

14.6. Special precautions for user

Packing Instruction(s)

Transport by road/rail (ADR/RID) : P010.

Transport by air (ICAO-TI / IATA-DGR)

Passenger and Cargo Aircraft : Forbidden.
Cargo Aircraft only : 876.
Transport by sea (IMDG) : P010.

Special transport precautions : Avoid transport on vehicles where the load space is not separated from the driver's

compartment.

Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in

the event of an accident or an emergency.

Before transporting product containers:

- Ensure there is adequate ventilation.

- Ensure that containers are firmly secured.

- Ensure webs is aloned and not looking
- Ensure valve is closed and not leaking.
- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
- Ensure valve protection device (where provided) is correctly fitted.

14.7. Maritime transport in bulk according to IMO instruments

No additional information available

EN (English) 9/11



Silicon Tetrachloride

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: D-SiCl4-143

SECTION 15: Regulatory information

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

EU-Regulations

Restrictions on use : None.

Other information, restriction and prohibition : Not listed on the PIC list (Regulation EU 649/2012).

regulations Not listed on the POP list (Regulation EU 2019/1021).

Seveso Directive: 2012/18/EU (Seveso III) : Covered

National regulations

Water hazard class (WGK) : 1 - Slightly hazardous to water.

Kenn-Nr. : 55

Regulatory reference : National / local legislations :

Gesetz zum Schutz der arbeitenden Jugend (Jugendarbeitsschutzgesetz-JArbSchG)

Betriebssicherheitsverordnung-BetrSichV

TRBS 3145/TRGS 745 - Ortsbewegliche Druckgasbehälter - Füllen, Bereithalten,

innerbetriebliche Beförderung, Entleeren

TRGS 510 - Lagerung von Gefahrstoffen in ortsbeweglichen Behältern

TRGS 407 - Tätigkeiten mit Gasen - Gefährdungsbeurteilung

TRBS 2141 - Gefährdungen durch Dampf und Druck - Allgemeine Anforderungen. Gesetz zum Schutz von Müttern bei der Arbeit, in der Ausbildung und im Studium

(Mutterschutzgesetz - MuSchG)

Verordnung über Verbote und Beschränkungen des Inverkehrbringens gefährlicher Stoffe,

Zubereitungen und Erzeugnisse nach dem Chemikaliengesetz (Chemikalien-

Verbotsverordnung-ChemVerbotsV).

Vierte Verordnung zur Durchführung des Bundes-Immissionsschutzgesetzes (Verordnung über genehmigungsbedürftige Anlagen - 4. BImSchV) Anhang 2 Stoffliste zu Nr. 9.3 des

Anhangs 1.

Zwölfte Verordnung zur Durchführung des Bundes-Immisionsschutzgesetzes (12.

BImSchV-Störfall-Verordnung).

TA Luft.

Lagerklasse gemäß TRGS 510: 6.1D.

15.2. Chemical safety assessment

A CSA has been carried out.

SECTION 16: Other information

Indication of changes : Revised safety data sheet in accordance with commission regulation (EU) No 2020/878.

EN (English) 10/11



Silicon Tetrachloride

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: D-SiCl4-143

Abbreviations and acronyms

Training advice

Further information

: ATE - Acute Toxicity Estimate.

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

(EC) No 1907/2006.

EINECS - European Inventory of Existing Commercial Chemical Substances.

CAS# - Chemical Abstract Service number.

PPE - Personal Protection Equipment.

LC50 - Lethal Concentration to 50 % of a test population.

RMM - Risk Management Measures.

PBT - Persistent, Bioaccumulative and Toxic.

vPvB - Very Persistent and Very Bioaccumulative.

STOT- SE: Specific Target Organ Toxicity - Single Exposure.

CSA - Chemical Safety Assessment.

EN - European Standard.

UN - United Nations.

ADR - European Agreement concerning the International Carriage of Dangerous Goods by

IATA - International Air Transport Association.

IMDG code - International Maritime Dangerous Goods.

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail.

WGK - Water Hazard Class.

STOT - RE: Specific Target Organ Toxicity - Repeated Exposure.

UFI: Unique Formula Identifier.

: Users of breathing apparatus must be trained.

Ensure operators understand the toxicity hazard.

Classification in accordance with the procedures and calculation methods of Regulation

(EC) 1272/2008 (CLP).

Key literature references and sources of data are maintained in EIGA doc 169:

'Classification and Labelling Guide', downloadable at http://www.Eiga.eu .

Full text of H- and EUH-statements		
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
EUH014	Reacts violently with water.	
EUH071	Corrosive to the respiratory tract.	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
H301	Toxic if swallowed.	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	
H331	Toxic if inhaled.	
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A	

DISCLAIMER OF LIABILITY

: Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

End of document

EN (English) 11/11