

Danger

Safety Data Sheet

Silicon tetrafluoride

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: D-SiF4-108 Issue date: 1/8/2015 Revision date: 11/17/2023 Supersedes version of: 1/5/2023 Version: 0.6



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

1.1. Product identifier	
Trade name	: Silicon tetrafluoride
SDS no	: D-SiF4-108
Other means of identification	: Silicon tetrafluoride
	CAS-No. : 7783-61-1
	EC-No. : 232-015-5
	EC Index-No. :
REACH registration No	: 01-2120762243-59
Chemical formula	: SiF4
1.2. Relevant identified uses of the substance or i	nixture 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.
J. J	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 shee	<u>t</u>

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]

Gases under pressure : Liquefied gas	H280
Skin corrosion/irritation, Category 1, Sub-Category 1A	H314
Serious eye damage/eye irritation, Category 1	H318
Acute toxicity (inhalation:gas) Category 2	H330
	Skin corrosion/irritation, Category 1, Sub-Category 1A Serious eye damage/eye irritation, Category 1



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2.2. Label elements

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

Hazard pictograms (CLP)	GHS04 GHS05 GHS06
Signal word (CLP)	: Danger
Hazard statements (CLP)	: H314 - Causes severe skin burns and eye damage.
	H280 - Contains gas under pressure; may explode if heated.
	H330 - Fatal if inhaled.
	EUH071 - Corrosive to the respiratory tract.
Precautionary statements (CLP)	
- Prevention	: P280 - Wear eye protection, face protection, protective clothing, protective gloves. P260 - Do not breathe gas, vapours.
- Response	 P303+P361+P353+P315 - IF ON SKIN : (or hair) Take off immediately all contaminated 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 advice.
- Storage	: P405 - Store locked up. P403 - Store in a well-ventilated place.
2.3. Other hazards	
	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 tetrafluoride	CAS-No.: 7783-61-1 EC-No.: 232-015-5 EC Index-No.: REACH registration No: 01-2120762243- 59	100	Press. Gas (Liq.), H280 Skin Corr. 1A, H314 Eye Dam. 1, H318 Acute Tox. 2 (Inhalation:gas), H330

Name	Product identifier	Specific concentration limits
Silicon tetrafluoride	CAS-No.: 7783-61-1 EC-No.: 232-015-5 EC Index-No.: REACH registration No: 01-2120762243- 59	(1 ≤C ≤ 100) STOT SE 3, H335

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



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3.2. Mixtures

Not applicable

SECTION 4: First aid measur	es
4.1. Description of first aid measure	<u>s</u>
- 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	 In case of skin contact, wearing rubber gloves rub 2.5% calcium gluconate gel continuously into the affected area for 1.5 hours or until further medical care is available. Remove contaminated clothing. Drench affected area with water for at least 15 minutes. In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance.
- Eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes.
- Ingestion	: Ingestion is not considered a potential route of exposure.
4.2. Most important symptoms and	effects, both acute and delayed
	Prolonged exposure to small concentrations may result in pulmonary oedema. May cause severe chemical burns to skin and cornea. Suitable first-aid treatment should be immediately available. Seek medical advice before using product. Delayed adverse effects possible. 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 me	dical 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	: Water spray or fog. Product does not burn, use fire control measures appropriate for the surrounding fire.	
- Unsuitable extinguishing media	: Do not use water jet to extinguish.	
5.2. Special hazards arising from the substance	ce or mixture	
Specific hazards Hazardous combustion products	Exposure to fire may cause containers to rupture/explode.Hydrogen fluoride.	
5.3. Advice for firefighters		
Specific methods Special protective equipment for fire fighters	 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. 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. 	



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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.		
	Prevent from entering sewers, basements and workpits, or any place where its		
	accumulation can be dangerous.		
	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			
	Reduce vapour with fog or fine water spray.		
	Try to stop release.		
6.3. Methods and material for containment and cleaning up			
	Hose down area with water.		
	Wash contaminated equipment or sites of leaks with copious quantities of water.		
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	 Avoid contact with aluminium. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Avoid exposure, obtain special instructions before use. Do not smoke while handling product. Avoid suck back of water, acid and alkalis. Only experienced and properly instructed persons should handle gases under pressure. Ensure the complete gas system was (or is regularily) checked for leaks before use. 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. The product must be handled in accordance with good industrial hygiene and safety procedures. Consider pressure relief device(s) in gas installations. Do not breathe gas. Avoid release of product into work area. Use only lubricants and sealings approved for the specific gas service. 	



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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.

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SECTION 8: Exposure	controis/personal	protection

8.1. Control parameters		
DNEL (Derived-No Effect Level)	: None established.	
PNEC (Predicted No-Effect Concentration)	: None established.	
8.2. Exposure controls		
8.2.1. Appropriate engineering controls		
	Product to be handled in a closed system and under strictly controlled conditions. Provide adequate general and local exhaust ventilation. Preferably use permanent leak-tight installations (e.g. welded pipes). 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.	
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.	



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Eye/face protection	: Wear goggles and a face shield when transfilling or breaking transfer connections. Provide readily accessible eye wash stations and safety showers.
• Skin protoction	Standard EN 166 - Personal eye-protection - specifications.
Skin protection Hand 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.
	Consult glove manufacturer's product information on material suitability and material
	thickness.
	The breakthrough time of the selected gloves must be greater than the intended use period.
	Standard EN 511 - Cold insulating gloves.
- 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 B (grey).
	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 	:	Gas.
- Colour	:	Gives off white fumes in moist air. Colourless.
Odour	:	Pungent.
Melting point / Freezing point	:	-86.8 °C
Boiling point	:	-95.2 °C
Flammability	:	Non flammable.
Lower explosion limit	:	Not applicable.
Upper explosion limit	:	Not applicable.
Flash point	:	Not applicable for gases and gas mixtures.
Auto-ignition temperature	:	Non flammable.
Decomposition temperature	:	Not applicable.
рН	:	If dissolved in water pH-value will be affected.
Viscosity, kinematic	:	No reliable data available.
Water solubility [20°C]	:	Not available
Partition coefficient n-octanol/water (Log Kow)	:	Not applicable for inorganic products.
Vapour pressure [20°C]	:	Not applicable.
Vapour pressure [50°C]	:	Not applicable.
Density and/or relative density	:	Not applicable for gases and gas mixtures.
Relative vapour density (air=1)	:	3.6



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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 Critical temperature [°C]	: No oxidising properties. : -14.1 °C
9.2.2. Other safety characteristics	
Molar mass Other data	 104 g/mol Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.
SECTION 10: Stability and reactive	/ity
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	
	May react violently with alkalis. Reacts with most metals in the presence of moisture, liberating hydrogen, an extremely flammable gas. With water causes rapid corrosion of some metals. Reacts with water to form corrosive acids. Moisture. 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	:	Fatal if inhaled.
LC50 Inhalation - Rat [ppm]		225 ppm/4h
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.



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STOT-single exposure	 May cause nausea and irritation of the respiratory tract. Hydrolysis of silanes in the body forms silicic acid or hydrated silica. 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	 Absorption of excessive fluorides can result in acute systemic fluorosis with hypocalcemia, interference with various metabolic functions and organ damage (heart, liver, kidneys). Delayed fatal pulmonary oedema possible. The substance/mixture has no endocrine disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity

Assessment	: No ecological damage caused by this product.
EC50 48h - Daphnia magna [mg/l]	: No data available.
EC50 72h - Algae [mg/l]	: No data available.
LC50 96 h - Fish [mg/l]	: No data available.
12.2. Persistence and degradability	
Assessment	: Not applicable for inorganic products.
12.3. Bioaccumulative potential	
No additional information available	
<u>12.4. Mobility in soil</u>	
Assessment	: Because of its high volatility, the product is unlikely to cause ground or water pollution. Partition into soil is unlikely.
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

	Gases formed by combustion should be washed with water to remove silica. 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)	: 16 05 04 *: Gases in pressure containers (including halons) containing hazardous substances.



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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. : 1859

14.2. UN proper shipping name

Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)

: SILICON TETRAFLUORIDE

14.3. Transport hazard class(es)

Labelling



Class Classification code Hazard identification number

Tunnel Restriction

Transport by sea (IMDG) Class / Div. (Sub. risk(s)) Emergency Schedule (EmS) - Fire Emergency Schedule (EmS) - Spillage

14.4. Packing group

Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)

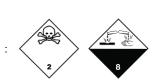
14.5. Environmental hazards

Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)

14.6. Special precautions for user

Packing Instruction(s)

Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Passenger and Cargo Aircraft Cargo Aircraft only Transport by sea (IMDG)



: SILICON TETRAFLUORIDE

: Silicon tetrafluoride

2.3 : Toxic gases.8 : Corrosive substances.

: 2

: 2TC

: 268

: C/D - Tank carriage : Passage forbidden through tunnels of category C, D and E. Other carriage : Passage forbidden through tunnels of category D and E

: 2.3 (8) : F-C

: S-U

: Not applicable.

- : Not applicable.
- : Not applicable.
- : None.
- : None.
- : None.

: P200.

- : Forbidden.
- : Forbidden.
- : P200.



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Reference number: D-SiF4-108		
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 valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. 	
14.7. Maritime transport in bulk according to	IMO instruments	
	Not applicable.	
SECTION 15: Regulatory information	n	
15.1. Safety, health and environmental regula	tions/legislation specific for the substance or mixture	
EU-Regulations		
Restrictions on use Other information, restriction and prohibition regulations Seveso Directive : 2012/18/EU (Seveso III)	 None. Not listed on the PIC list (Regulation EU 649/2012). Not listed on the POP list (Regulation EU 2019/1021). Covered. 	
National regulations		
Water hazard class (WGK) Regulatory reference	1 - Slightly hazardous to water.Ensure all national/local regulations are observed.	

Regulatory reference	: Ensure all national/local regulations are observed.
	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).
	Zwölfte Verordnung zur Durchführung des Bundes-Immisionsschutzgesetzes (12.
	BImSchV-Störfall-Verordnung).
	Vierte Verordnung zur Durchführung des Bundes-Immissionsschutzgesetzes (Verordnung
	über genehmigungsbedürftige Anlagen - 4. BlmSchV) Anhang 2 Stoffliste zu Nr. 9.3 des
	Anhangs 1.
	Classification for storage according to TRGS 510: 2A Gase (ohne Aerosolpackungen und
	Feuerzeuge).
	TA Luft.
15.2. Chemical safety assessment	
	A CSA has not yet been carried out.

SECTION 16: Other information

Indication of changes

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



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Abbreviations and acronyms	 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 Agreement concerning the International Carriage of Dangerous Goods by Road. IATA - International Air Transport Association. IMDG code - International Maritime Dangerous Goods. RID - Regulations concerning the International Carriage of Dangerous Goods by Road. IATA - International Maritime Dangerous Goods. RID - Regulations concerning the International Carriage of Dangerous Goods by Road. IATA - International Maritime Dangerous Goods. RID - Regulations concerning the International Carriage of Dangerous Goods by Road. IATA - 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.
Training advice	: Users of breathing apparatus must be trained. Ensure operators understand the toxicity hazard.
Further information	 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. 2 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 2	
EUH071	Corrosive to the respiratory tract.	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
H280	Contains gas under pressure; may explode if heated.	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	
H330	Fatal if inhaled.	
H335	May cause respiratory irritation.	
Press. Gas (Liq.)	Gases under pressure : Liquefied gas	
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	

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