

Danger

Safety Data Sheet

Nitric oxide

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: D-NO-088 Issue date: 1/8/2015 Revision date: 8/2/2023 Supersedes version of: 1/5/2013 Version: 0.6



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

1.1. Product identifier	
Trade name	Nitric oxide
SDS no	D-NO-088
Other means of identification :	Nitric oxide
	CAS-No. : 10102-43-9
	EC-No. : 233-271-0
	EC Index-No. :
REACH registration No :	01-2120766630-54
Chemical formula	NO
1.2. Relevant identified uses of the substance or n	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.
	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	

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 <u>SDB.de@messergroup.com</u> - <u>www.messer.de</u>

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]

Physical hazards	Oxidising Gases, Category 1	H270
	Gases under pressure : Compressed gas	H280
Health hazards	Skin corrosion/irritation, Category 1, Sub-Category 1B	H314
	Serious eye damage/eye irritation, Category 1	H318
	Acute toxicity (inhalation:gas) Category 1	H330



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2.2. Label elements

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

Hazard pictograms (CLP)	
	GHS03 GHS04 GHS05 GHS06
Signal word (CLP)	: Danger
Hazard statements (CLP)	: H314 - Causes severe skin burns and eye damage.
	H270 - May cause or intensify fire; oxidiser.
	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.
	P244 - Keep valves and fittings free from oil and grease.
Destance	P220 - Keep away from clothing and other combustible materials.
- 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.
	P370+P376 - In case of fire: Stop leak if safe to do so.
- 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]
Nitric oxide	CAS-No.: 10102-43-9	100	Ox. Gas 1, H270
	EC-No.: 233-271-0		Press. Gas (Comp.), H280
	EC Index-No.:		Skin Corr. 1B, H314
	REACH registration No: 01-2120766630-		Eye Dam. 1, H318
	54		Acute Tox. 1 (Inhalation:gas), H330

Name	Product identifier	Specific concentration limits
Nitric oxide	CAS-No.: 10102-43-9 EC-No.: 233-271-0 EC Index-No.: REACH registration No: 01-2120766630- 54	(0.5 ≤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 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.
- 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 effe	ects, 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 medic	al 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	e or mixture
Specific hazards	: Supports combustion. Exposure to fire may cause containers to rupture/explode.
Hazardous combustion products	: Nitric oxide/nitrogen dioxide.
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 ed	guipment and emergency procedures
For non-emergency personnel	: Act in accordance with local emergency plan.
	Try to stop release.
	Evacuate area.
	Ensure adequate air ventilation.
	Eliminate ignition sources.
	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 containm	ent 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.

Safe use of the product	: Use no oil or grease.
Sale use of the 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 exposure, obtain special instructions before use.
	Do not smoke while handling product.
	Keep equipment free from oil and grease. For more guidance, refer to the EIGA Doc. 33 -
	Cleaning of Equipment for Oxygen Service downloadable at http://www.eiga.eu.
	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 wher
	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.

SECTION 7: Handling and storage



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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 containe
	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
	Segregate from flammable gases and other flammable materials in store.
	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)	
	Nono

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Nitric oxide (10102-43-9) Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	2.5 mg/m ³
AGW (OEL TWA) [2]	2 ppm
Peak exposure limitation factor	2(II)
Remark	EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); AGS - Ausschuss für Gefahrstoffe; 22b - Für den Bereich Bergbau gilt bis 21. August 2023 ein Wert in Höhe von 30 mg/m3 bzw. 25 ppm
Regulatory reference	TRGS900

DNEL (Derived-No Effect Level)

None established.None established.



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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. per	sonal protective equipment
• Eye/face protection	 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.
Skin protection	Standard EN 166 - Personal eye-protection - specifications.
- Hand protection	 Wear working gloves when handling gas containers. 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. 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	 Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres. 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. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. Consult respiratory device supplier's product information for the selection of the appropriate device.
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	: Brownish gas.
Odour	: Pungent. Poor warning properties at low concentrations.
Melting point / Freezing point	: -164 °C
Boiling point	: -152 °C
Flammability	: Non flammable.
Lower explosion limit	: Not applicable.
Upper explosion limit	: Not applicable.
Flash point	: Not applicable for gases and gas mixtures.



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Auto-ignition temperature	: Non flammable.
Decomposition temperature	: Not applicable.
pH	: Not applicable for gases and gas mixtures.
Viscosity, kinematic	: No reliable data available.
Water solubility [20°C]	: mg/l Min: 46 Max: 57.4
Partition coefficient n-octanol/water (Log Kow)	: Not known.
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)	: 1
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 haza	rd classes
Oxidising properties	: Oxidiser.
- Coefficient of oxygen equivalency (Ci)	· 03

Oxidising properties	:	Oxidiser.
- Coefficient of oxygen equivalency (Ci)	:	0.3
Critical temperature [°C]	:	-93 °C
9.2.2. Other safety characteristics		
Molar mass	:	30 g/mol

Molar mass	:	30 g/m
Other data	:	None.

SECTION 10: Stability and reactivity	
10.1. Reactivity	
	No reactivity hazard other than the effects described in sub-sections below.
10.2. Chemical stability	
	Decomposes at room temperature to other nitrogen oxides and nitrogen. Oxidises in air to form nitrogen dioxide which is extremely reactive.
10.3. Possibility of hazardous reactions	
	Violently oxidises organic material.
10.4. Conditions to avoid	
	High temperature.
	Avoid moisture in installation systems.
10.5. Incompatible materials	
	Air.
	May react violently with combustible materials.
	May react violently with reducing agents.
	Keep equipment free from oil and grease. For more guidance, refer to the EIGA Doc. 33 -
	Cleaning of Equipment for Oxygen Service downloadable at http://www.eiga.eu.
	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	: Delayed fatal pulmonary oedema possible. Fatal if inhaled.
LC50 Inhalation - Rat [ppm]	57.5 ppm/4h



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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.
Target organ(s)	: Blood. Eyes. Respiratory system.
STOT-repeated exposure	: Severe corrosion to the respiratory tract at high concentrations.
Target organ(s)	: Respiratory system.
Aspiration hazard	: Not applicable for gases and gas mixtures.
11.2. Information on other hazards	
Other information	: Delayed fatal pulmonary oedema possible. The substance/mixture has no endocrine disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity

Assessment

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.

No ocological damage caused by this product



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SECTION 13: Disposal considerations

13.1. Waste treatment methods	
	Gas may be scrubbed in alkaline solution under controlled conditions to avoid violent reaction.
	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.
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.	: 1660
14.2. UN proper shipping name	
Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)	 NITRIC OXIDE, COMPRESSED Nitric oxide, compressed NITRIC OXIDE, COMPRESSED
14.3. Transport hazard class(es)	
Labelling	2.3 : Toxic gases. 5.1 : Oxidizing substances. 8 : Corrosive substances.
Transport by road/rail (ADR/RID)	
Class Classification code Tunnel Restriction	 2 1TOC D - Passage forbidden through tunnels of category D and E
Transport by sea (IMDG) Class / Div. (Sub. risk(s)) Emergency Schedule (EmS) - Fire Emergency Schedule (EmS) - Spillage	: 2.3 (5.1, 8) : F-C : S-W
14.4. Packing group	
Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)	 Not applicable. Not applicable. Not applicable.
14.5. Environmental hazards	
Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)	: None. : None. : None.



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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)

Special transport precautions

: P200.

- : Forbidden.
- : Forbidden.
- : P200.
- : 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.
- Ensure valve protection device (where provided) is correctly fitted.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulation	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) Kenn-Nr. Regulatory reference	 1 - Slightly hazardous to water. 285 Ensure all national/local regulations are observed. Sec_15_General. Sec15 DE CMR Tox 1 2 3 STOT SE1. Sec 15 DE BlmSchV 12 . Sec 15 DE BlmSchV 4. TA Luft. Classification for storage according to TRGS 510: 2A Gase (ohne Aerosolpackungen und Feuerzeuge).
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.



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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 Standard. UN - United Nations. ADR - 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 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. 1 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 1
EUH071	Corrosive to the respiratory tract.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H270	May cause or intensify fire; oxidiser.
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.
Ox. Gas 1	Oxidising Gases, Category 1
Press. Gas (Comp.)	Gases under pressure : Compressed gas
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
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.

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