

dinitrogen monoxide, liquefied, under pressure**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name	: dinitrogen monoxide, liquefied, under pressure
Synonyms	: B902, liquefied, under pressure; dental gas, liquefied, under pressure; dinitrogenoxide, liquefied, under pressure; dinitrogen oxide, under pressure; factitious air, liquefied, under pressure; hyponitrous acid anhydride, under pressure; hyponitrous oxide, under pressure; laughing gas, under pressure; nitrogen hypoxide; nitrogen(I) oxide, under pressure; nitrogen monoxide, under pressure; nitrogen oxide (N2O); nitrogen oxide, under pressure; nitrogen protoxide; nitrous oxide, under pressure; R-744A
Registration number REACH	: 01-2119970538-25
Product type REACH	: Substance/mono-constituent
CAS number	: 10024-97-2
EC number	: 233-032-0
RTECS number	: QX1350000
Molecular mass	: 44.01 g/mol
Formula	: N2O

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Relevant identified uses**

Propellant
Industrial use

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet**Supplier of the safety data sheet**

BALCHEM NV
Westvaardijk 85
B-1850 Grimbergen Belgium
 +32 2 251 60 87
 +32 2 252 17 51
info.grimbergen@balchem.com

Distributor of the product

BALCHEM NV
Westvaardijk 85
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1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):
+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Ox. Gas	category 1	H270: May cause or intensify fire; oxidiser.
Press. Gas	Liquefied gas	H280: Contains gas under pressure; may explode if heated.

2.2. Label elements

Signal word

H-statements

H270

H280



Danger

May cause or intensify fire; oxidiser.

Contains gas under pressure; may explode if heated.

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P-statements

P244	Keep valves and fittings free from oil and grease.
P220	Keep/Store away from clothing and combustible materials.
P370 + P376	In case of fire: Stop leak if safe to do so.
P410 + P403	Protect from sunlight. Store in a well-ventilated place.

3.3. Other hazards

May cause frostbites
Large spills/in enclosed spaces: risk of oxygen deficiency
May cause frostbites

SECTION 3: Composition/information on ingredients

3.1. Substances

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
dinitrogenoxide, liquefied, under pressure 01-2119970538-25	10024-97-2 233-032-0	C>99 %	Ox. Gas 1; H270 Press. Gas - Liquefied gas; H280	(1)(2)	Mono-constituent

(1) For H-statements in full: see heading 16
(2) Substance with a Community workplace exposure limit

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give alcohol to drink.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

In case of frostbites: Wash immediately with lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.

After eye contact:

Rinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents. Take victim to an ophthalmologist.

After ingestion:

Not applicable.

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

4.2.1 Acute symptoms

After inhalation:

Headache. Nausea. Feeling of weakness. EXPOSURE TO HIGH CONCENTRATIONS: Impaired concentration. Disturbed motor response. Behavioural disturbances. Disturbed sensation of pain. Drunkenness. Narcosis. Disturbances of consciousness. Visual disturbances.

After skin contact:

Frostbites.

After eye contact:

Frostbites.

After ingestion:

No effects known.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Adapt extinguishing media to the environment.

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

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5.2. Special hazards arising from the substance or mixture

On burning: release of toxic and corrosive gases/vapours (nitrous vapours). Explosive decomposition on exposure to temperature rise.

5.3. Advice for firefighters

5.3.1 Instructions:

Cool tanks/drums with water spray/remove them into safety. Physical explosion risk: cool from behind cover. Do not move the load if exposed to heat. After cooling: persistent risk of physical explosion. Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.

5.3.2 Special protective equipment for fire-fighters:

Insulating gloves. Protective clothing. Compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep upwind. Seal off low-lying areas. Close doors and windows of adjacent premises. No naked flames. Avoid ingress of water in the containers. Large spills/in confined spaces: consider evacuation.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Insulating gloves. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Try to reduce evaporation. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

Cover spill with non combustible material, e.g.: sand/earth. Damaged/cooled tanks must be emptied. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

See heading 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1. Precautions for safe handling

Keep away from naked flames/heat. Gas/vapour heavier than air at 20°C. Observe normal hygiene standards.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: <50 °C. Ventilation at floor level. Fireproof storeroom. Aboveground. Provide for a tub to collect spills. Store at ambient temperature. Keep out of direct sunlight. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources, combustible materials, reducing agents, oils-fats, highly flammable materials, organic materials.

7.2.3 Suitable packaging material:

Steel, stainless steel, monel steel, iron, copper, bronze, polyethylene.

7.2.4 Non suitable packaging material:

Polypropylene, aluminium, nickel.

7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

The Netherlands

Distikstofmonoxide	Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	83 ppm
	Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	152 mg/m ³

Belgium

Diazote (oxyde de)	Time-weighted average exposure limit 8 h	50 ppm
	Time-weighted average exposure limit 8 h	91 mg/m ³

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USA (TLV-ACGIH)

Nitrous oxide	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	50 ppm
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Germany

Distickstoffoxid	Time-weighted average exposure limit 8 h (TRGS 900)	100 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	180 mg/m ³

UK

Nitrous oxide	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	100 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	183 mg/m ³

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

Product name	Test	Number
Nitrous Oxide (organic and inorganic gases by Extractive FTI)	NIOSH	3800
Nitrous Oxide	NIOSH	6600
Nitrous Oxide	OSHA	ID 166

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values

DNEL/DMEL - Workers

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Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	183 mg/m ³	

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Do not eat, drink or smoke during work.

a) Respiratory protection:

Gas mask with filter type NO. High vapour/gas concentration: self-contained respirator.

b) Hand protection:

Insulated gloves.

- materials (good resistance)

Butyl rubber, PVC, polyethylene, tetrafluoroethylene.

c) Eye protection:

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Liquefied gas
Odour	Pleasant odour
	Sweet odour
	Almost odourless
Odour threshold	No data available
Colour	Colourless
Particle size	Not applicable (gas)
Explosion limits	No data available
Flammability	Non combustible
Log Kow	0.3 - 0.4
Dynamic viscosity	0.000015 Pa.s ; 25 °C
Kinematic viscosity	No data available
Melting point	-91 °C ; 1013 hPa
Boiling point	-89 °C ; 1013 hPa

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Flash point	Not applicable
Evaporation rate	No data available
Relative vapour density	1.5
Vapour pressure	50700 hPa ; 20 °C 57180 hPa ; 25 °C
Solubility	water ; 0.15 g/100 ml ; 15 °C
Relative density	1.2 ; -89 °C
Decomposition temperature	650 °C
Auto-ignition temperature	No data available
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	May cause or intensify fire; oxidiser.
pH	No data available

9.2. Other information

Critical temperature	36.5 °C
Critical pressure	72540 hPa
Absolute density	780 kg/m ³ ; -89 °C

SECTION 10: Stability and reactivity

10.1. Reactivity

May cause or intensify fire; oxidiser. Substance has neutral reaction.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Decomposes slowly on exposure to (some) metals. Reacts with combustible materials: risk of spontaneous ignition. Reacts violently with (strong) reducers. Oxidizes with organic material. Reacts with many compounds: (increased) risk of fire/explosion.

10.4. Conditions to avoid

Keep away from naked flames/heat.

10.5. Incompatible materials

Combustible materials, reducing agents, oils-fats, highly flammable materials, organic materials.

10.6. Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours (nitrous vapours).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

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Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral						Data waiving	
Dermal						Data waiving	
Inhalation (gases)	LC50		> 500000 ppm	90 day(s)	Mouse (male/female)	Experimental value	

Conclusion

Not classified for acute toxicity

Corrosion/irritation

dinitrogen monoxide, liquefied, under pressure

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye						Data waiving	
Skin						Data waiving	
Inhalation						Data waiving	

Conclusion

Not classified as irritating to the skin

Not classified as irritating to the eyes

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

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Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin						Data waiving	
Inhalation						Data waiving	

Conclusion

Not classified as sensitizing for skin
Not classified as sensitizing for inhalation

Specific target organ toxicity

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Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral								Data waiving
Dermal								Data waiving
Inhalation (gases)	NOAEC	Equivalent to OECD 413	50000 ppm		No effect	14 weeks (6h/day, 5 days/week)	Mouse (male/female)	Experimental value

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

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Result	Method	Test substrate	Effect	Value determination
Not sensitizing	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value
Negative with metabolic activation	Equivalent to OECD 479	Chinese hamster ovary (CHO)		Experimental value

Mutagenicity (in vivo)

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No (test)data available

Carcinogenicity

dinitrogen monoxide, liquefied, under pressure

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Organ	Effect
Inhalation (gases)	NOAEC		> 400000 ppm	78 week(s)	Mouse (male/female)	Experimental value		No effect

Reproductive toxicity

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	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEC	Equivalent to OECD 414	500 ppm	19 days (gestation, daily)	Rat (male/female)	No effect		Experimental value
Effects on fertility	NOAEC (P/F1)		> 700000	30 day(s)	Rat (male/female)	No effect		Experimental value

Conclusion CMR

Not classified for carcinogenicity
Not classified for mutagenic or genotoxic toxicity
Not classified for reprotoxic or developmental toxicity

Toxicity other effects

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No (test)data available

Chronic effects from short and long-term exposure

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ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Impairment of the nervous system. Sensorial disturbances. Coordination disorders. Feeling of weakness. Change in the haemogramme/blood composition. Impairment of the blood forming system. Possible premature birth.

SECTION 12: Ecological information

12.1. Toxicity

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	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		> 1000 mg/l	96 h	Pisces			

Conclusion

Not harmful to fishes

Not harmful to aquatic organisms

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

12.2. Persistence and degradability

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Half-life soil (t_{1/2} soil)

Method	Value	Primary degradation/mineralisation	Value determination
Not applicable			

Conclusion

Biodegradability: not applicable

12.3. Bioaccumulative potential

dinitrogen monoxide, liquefied, under pressure

Log Kow

Method	Remark	Value	Temperature	Value determination
		0.3 - 0.4		

Conclusion

Low potential for bioaccumulation (Log Kow < 4)

12.4. Mobility in soil

Not applicable (gas)

12.5. Results of PBT and vPvB assessment

The criteria of PBT and vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006 do not apply to inorganic substances.

12.6. Other adverse effects

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Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Included in the list of substances which may contribute to the greenhouse effect (IPCC)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

16 05 04* (gases in pressure containers and discarded chemicals: gases in pressure containers (including halons) containing dangerous substances).

Depending on branch of industry and production process, also other waste codes may be applicable. Hazardous waste according to Regulation (EU) No 1357/2014.

13.1.2 Disposal methods

Refer to manufacturer/supplier for information on recovery/ recycling. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals.

13.1.3 Packaging/Container

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)

14.1. UN number

UN number 1070

14.2. UN proper shipping name

Proper shipping name Nitrous oxide

14.3. Transport hazard class(es)

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Hazard identification number	25
Class	2
Classification code	20

14.4. Packing group

Packing group	
Labels	2.2+5.1

14.5. Environmental hazards

Environmentally hazardous substance mark	no
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14.6. Special precautions for user

Special provisions	584
Special provisions	662
Limited quantities	none.

Rail (RID)

14.1. UN number

UN number	1070
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14.2. UN proper shipping name

Proper shipping name	Nitrous oxide
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14.3. Transport hazard class(es)

Hazard identification number	25
Class	2
Classification code	20

14.4. Packing group

Packing group	
Labels	2.2+5.1 (+13)

14.5. Environmental hazards

Environmentally hazardous substance mark	no
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14.6. Special precautions for user

Special provisions	584
Special provisions	662
Limited quantities	none.

Inland waterways (ADN)

14.1. UN number

UN number	1070
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14.2. UN proper shipping name

Proper shipping name	Nitrous oxide
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14.3. Transport hazard class(es)

Class	2
Classification code	20

14.4. Packing group

Packing group	
Labels	2.2+5.1

14.5. Environmental hazards

Environmentally hazardous substance mark	no
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14.6. Special precautions for user

Special provisions	584
Special provisions	662
Limited quantities	none.

Sea (IMDG/IMSBC)

14.1. UN number

UN number	1070
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14.2. UN proper shipping name

Proper shipping name	Nitrous oxide
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14.3. Transport hazard class(es)

Class	2.2
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14.4. Packing group

Packing group	
Labels	2.2 + 5.1

14.5. Environmental hazards

Marine pollutant	-
Environmentally hazardous substance mark	no

14.6. Special precautions for user

Special provisions	
Limited quantities	none.

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

Annex II of MARPOL 73/78	Not applicable
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Air (ICAO-TI/IATA-DGR)

14.1. UN number	UN number	1070
14.2. UN proper shipping name	Proper shipping name	Nitrous oxide
14.3. Transport hazard class(es)	Class	2.2
14.4. Packing group	Packing group	
	Labels	2.2+5.1
14.5. Environmental hazards	Environmentally hazardous substance mark	no
14.6. Special precautions for user	Special provisions	
	Passenger and cargo transport: limited quantities: maximum net quantity per packaging	Forbidden

SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
	Not applicable (inorganic)

National legislation The Netherlands

Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 06
SZW - List of reprotoxic substances (fertility)	Possible risk of impaired fertility
SZW - List of reprotoxic substances (development)	Possibly hazardous to the foetus
Waterbezwaarlijkheid	11

National legislation Germany

Schwangerschaft Gruppe	C
WGK	1; Classification water polluting in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 2)
TA-Luft	5.2.4; IV

National legislation France

No data available

National legislation Belgium

No data available

Other relevant data

TLV - Carcinogen	Nitrous oxide; A4
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15.2. Chemical safety assessment

A chemical safety assessment has been performed.

SECTION 16: Other information

Full text of any H-statements referred to under headings 2 and 3:

H270 May cause or intensify fire; oxidiser.

H280 Contains gas under pressure; may explode if heated.

(*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own

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