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Mixture Sulphur dioxide 50% - Nitrogen 50%

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

1.1. Product identifier

Trade name Mixture Sulphur dioxide 50% - Nitrogen 50%

Chemical description Sulphur dioxide 50% - Nitrogen 50%

CAS N° -

CE N° -

Index N° Registration n° -

Chemical formula SO₂, N₂

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

Relevant identified uses Industrial and professional

Analysis, calibration Laboratory use

Contact supplier for more information on uses

Uses advised against For use by industrial or professional users only

1.3. Details of the supplier of the safety data sheet

MULTIGAS

Company identification Route de l'Industrie 102

CH-1564 Domdidier

Phone number +41 (0) 26 676 94 94

E-mail address <u>info@multigas.ch</u>

1.4. Emergency telephone numbers

145 (Toxicology Centre Zurich) or +41 (0) 44 251 51 51

+41 (0) 26 676 94 94 (Multigas)

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 1B	H314
Serious eye damage Category 1	H318
Acute toxicity (inhalation: gas) Category 4	H332



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Specific target organ toxicity (single exposure) Category 3

pecific target organ toxicity (single exposure) Gategory 5

H335

For the complete H-sentences texts mentioned in that chapter, refer to Section 16

2.2. Label elements

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

Hazard pictograms			
	GHS04	GHS05	GHS07

Signal word Danger

Hazard statements

H280 Contains gas under pressure; may explode if heated

H314 Causes severe skin burns and eye damage

H332 Harmful if inhaled

H335 May cause respiratory irritation

EUH071 Corrosive to the respiratory system

Precautionary statements

P280 Wear protective gloves, protective clothing, eye protection, face protection

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

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

attention

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

contact lenses, if present and easy to do. Continue rinsing. Get immediate

medical advice / attention

P410+P403 Protect from sunlight. Store in a well-ventilated place

P405 Store locked up

2.3. Other hazards

Exposure may worsen the situation of people with pre-existing eye, skin or respiratory disorders. Prolonged exposure to gas or overexposure to concentrated gas may cause loss of consciousness, possible lung tissue damage, decreased lung function, spinal cord spasm, chemical pneumonitis, throat inflammation (bronchitis) and respiratory paralysis. Contact with the product may cause cold burns or frostbite



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SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	Concentration	Classification
Sulphur dioxide	(CAS-No.) 7446-09-5 (EC-No.) 231-195-2 (EC Index-No.) 016-011-00-9 (Registration-No.) 01-2119485028-34	50%	Press. Gas (Liq.), H280 Skin Corr. 1B, H314 Eye Dam. 1, H318 Acute Tox. 3 (Inhalation: gas), H331
Nitrogen	(CAS-No.) 7727-37-9 (EC-No.) 231-783-9 (EC Index-No.) (Registration-No.)	50%	Press. Gas (Comp.), H280

For the complete H-sentences texts mentioned in that chapter, refer to Section 16 Contains no other components or impurities which will influence the classification of the product

3.2. Mixtures

Not established

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice See a doctor. Show this safety data sheet to the attending physician

In case of inhalation In case of inhalation, remove the person from the contaminated area. In

case of respiratory arrest, give artificial respiration. See a doctor

In case of skin contact Remove contaminated clothing and shoes immediately. Wash with soap

and plenty of water. Take victim immediately to hospital. See a doctor

In case of eyes contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a

doctor

In case of ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious

person. Rinse mouth with water. See a doctor

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

Treat with corticosteroid spray as soon as possible after inhalation



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SECTION 5: Firefighting measures

5.1. Extinguishing media

Water spray or water mist. Dry powder. Foam

Unsuitable extinguishing mediaDo not use water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards In case of fire or excessive heat, hazardous combustion products may be

produced

Exposure to fire may cause containers to rupture/explode

Hazardous combustion products In case of fire or excessive heat, hazardous combustion products may be

produced such as: sulphur oxides

5.3. Additional information

Wear self-contained breathing apparatus for firefighting, if necessary. (Standard EN137 - Self-contained open-circuit compressed air apparatus

with full face mask)

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, spray mists or gases

Provide adequate ventilation

Evacuate personnel to a safe place

Personal protective equipment, see section 8

6.2. Environmental precautions

Try to stop the leak

Decrease vapour by water spray in the form of fog or fine droplets

6.3. Methods and material for containment and cleaning up

Hose down area with water

Keep area evacuated and free from ignition sources until any spilled liquid

has evaporated (ground free from frost)

Wash contaminated equipment or sites of leaks with copious quantities of

water

6.4. Reference to other sections

See also sections 8 and 13



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes Avoid breathing vapour or mist

Keep away from sources of ignition - No smoking

For precautions, see section 2.2

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep container tightly closed in a dry and well-

ventilated place

Content under pressure

7.3. Specific end use(s)

-

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with occupational exposure limits

Component	CAS N°	Exposure value type	Control parameter	Source
	Sulphur dioxide 7446-09-5	T10/0	0.5 ppm	SUVA: Limit values of
Sulphur dioxide 7446-09-5		IWA	1.3 mg/m ³	exposure to workstations
		OEL	1 ppm	SUVA: Limit values of
			2.7 mg/m ³	exposure to workstations
	Nitrogen 7727-37-9 OEL	TIMA	-	
Nitrogon		-	No occupational	
Nitrogen 77.		OEL	-	exposure limit value
			-	

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate general and local exhaust ventilation

Gas detectors should be used when toxic gases may be released



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

Eye/face protectionWear goggles and a face shield when transfilling or breaking transfer

connections. Standard EN 166

Skin / hand protection Wear protective gloves when handling gas cylinders. Standard EN 388

Wear cold insulating gloves when transferring or disconnecting transfer

lines Standard EN 511

Wearing chemical resistant gloves Standard EN 374

For long-term use

Material: Fluoroelastomer Glove thickness: 0.7 mm Penetration time:480 min

For short-term use

Material: Chloroprene rubber Glove thickness: 0.4 mm Penetration time:30 min

Have appropriate, chemical-resistant protective clothing ready for use in

emergencies. Standard EN943-1

Respiratory protection Self-contained breathing apparatus (SCBA) or positive pressure air mask

must be used in oxygenated atmospheres. Standard EN 137 - Self-

contained compressed air device with a full face mask

8.2.3. Environmental exposure controls

Avoid any spill or leak if it can be done safely

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state at 20°C /

101.3kPa

Vapour pressure [20°C]

Gas

• Colour Colourless

Odour Mixture containing one or more components that have the following odour:

Pungent

No data available

Odour threshold No data available Hq No data available Melting point / Freezing point No data available No data available **Boiling point** Flash point No data available **Evaporation rate** No data available Flammability (solid, gas) Non-flammable **Explosive limits** No data available



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Vapour pressure [50°C]

Vapour density

Relative density, liquid (water=1)

No data available

No data available

Relative density, gas (air=1) 1.5885

Water solubility No data available

Partition coefficient

n-octanol/water (Log Kow)

No data available

Auto-ignition temperatureNo data availableDecomposition temperatureNo data availableViscosityNo data availableExplosive propertiesNo data availableOxidising propertiesNo data available

9.2. Other information

Molar mass 46 g/mol

Critical temperature [°C] No data available

Relative vapour density

Gas/vapour heavier than air. May accumulate in confined spaces,

particularly at or below ground level

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 recommended storage conditions

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

None under recommended conditions of use and storage

10.5. Incompatible materials

Reacts with water to form corrosive acids

Oxidants
Strong bases
Brass, zinc

For additional information on compatibility refer to ISO 11114



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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. Chemical safety assessment

Acute toxicity Toxic if inhaled

Skin corrosion/irritation Causes severe skin burns and eye damage

Serious eye damage/irritation No data available Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity No data available Reproductive toxicity No data available STOT-single exposure - Target No data available

organ(s)

STOT-repeated exposure No data available No data available Ingestion hazard

11.2. Information on other hazards

The mixture has no endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

Classification criteria are not met **Assessment**

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

PBT / vPvB assessment is not available because the chemical safety assessment is not required / is not conducted



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12.6. Endocrine-disrupting properties

The substance/mixture has no endocrine disrupting properties

12.7. Other adverse effects

Effect on the ozone layer: No known effect with this product.

Ozone depletion potential: None.

Effect on global warming: No known effect with this product.

Global warming potential: None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product Must not be released into the atmosphere

Burn in a chemical incinerator equipped with an afterburner and scrubber Return to the supplier the product not consumed in its original container

Contaminated container Eliminate as unused product

Contact the supplier if instructions are needed

OMoD Code 16 05 05

Gases in pressure containers (including halons) other than those

mentioned in 16 05 04

SECTION 14: Transport information

14.1. UN number

Transport par road/rail ADR / RID	Transport by sea IMDG	Transport by air IATA
1956	1956	1956

14.2. UN proper shipping name

Transport par road/rail ADR / RID	Transport by sea IMDG	Transport by air IATA
COMPRESSED GAS, N.O.S., (Sulphur dioxide, Nitrogen)	COMPRESSED GAS, N.O.S., (Sulphur dioxide, Nitrogen)	Compressed gas, n.o.s., (Sulphur dioxide, Nitrogen)

14.3. Transport hazard class(es)

Labelling



ADR/RID IMDG IATA

2.2 : Non-flammable, non-toxic gases



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14.4. Packing group

ADR/RID
IMDG Not established
IATA

14.5. Environmental hazards

ADR/RID None
IMDG None
ICAO-TI / IATA-DGR None

14.6. Special precautions for user

No data available

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

Not applicable

SECTION 15: Regulatory information

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

This safety data sheet complies with the requirements of Regulation (CE) No. 1907/2006

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 2015/830

Abbreviations and acronyms ADR: European Agreement concerning the International Carriage

of Dangerous Goods by Road

CAS: Chemical Abstract Service number (USA)

CLP: Classification Labelling Packaging Regulation; Regulation

(EC) No 1272/2008

CSA: Chemical Safety Assessment

EIGA: European Industrial Gases Association

EINECS: European Inventory of Existing Commercial Chemical

Substances

EN: European Standard
ATE: Acute Toxicity Estimate

IATA: International Air Transport Association

IMDG Code: International Maritime Dangerous Goods Code LC50: Lethal Concentration to 50 % of a test population



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OMoD: Swiss Ordinance on the movement of waste

PBT: Persistent, Bioaccumulative and Toxic

PPE: Personal Protection Equipment

REACH: Registration, Evaluation, Authorisation and Restriction of

Chemicals Regulation (EC) No 1907/2006

RID: Regulations concerning the international carriage of

dangerous goods by rail

RMM: Risk Management Measures

STOT-SE: Specific Target Organ Toxicity - Single Exposure

UN: United Nations

vPvB: Very Persistent and Very Bioaccumulative

WGK: Water Hazards Class

Full text of H, EUH and P statements used in sections 2 and 3

Hazard statements

H280 Contains gas under pressure; may explode if heated

H314 Causes severe skin burns and eye damage

H332 Harmful if inhaled

H335 May cause respiratory irritation

Precautionary statements

P280 Wear protective gloves, protective clothing, eye protection, face protection

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

attention

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 / attention

P410+P403 Protect from sunlight. Store in a well-ventilated place

P405 Store locked up

Disclaimer of liability

Details given in this document have been prepared based on the most available reliable documents and are believed to be correct at the time of

going to press

They do not claim to be exhaustive and should be considered as a guide