

Nitrogen dioxide

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Reference number: 090 Revision date: 15/12/2022 Supersedes version of: 22/10/2020 Version: 3.0

Danger



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

1.1. Product identifier

Trade name : Nitrogen dioxide

SDS no : 090

Other means of identification : Nitrogen dioxide

CAS-No. : 10102-44-0 EC-No. : 233-272-6 EC Index-No. : 007-002-00-0

REACH registration No : 01-2120770753-48

Chemical formula : NO2

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

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

Test gas/Calibration gas. Chemical reaction / Synthesis.

Laboratory use.

Contact supplier for more information on uses. Industrial use. Perform risk assessment prior to use.

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

Company identification : SOL SpA

Via G. Borgazzi 27 20900 MONZA - Italia T +39 039 23.96.1 http:\\www.sol.it msds@sol.it

E-Mail address (competent person) : msds@sol.it

1.4. Emergency telephone number

Emergency telephone number : Linea verde SET - 800452661 (24h/24h, 365 giorni l'anno); Dall'estero +39 0283421263

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 : Liquefied 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)









Signal word (CLP)

Hazard statements (CLP)

Precautionary statements (CLP)

- Prevention

- Response

- Storage

2.3. Other hazards

GHS03

GHS04

H314 - Causes severe skin burns and eye damage.

GHS05

GHS06

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.

: 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.

P220 - Keep away from clothing and other combustible materials.

: 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.

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. P370+P376 - In case of fire: Stop leak if safe to do so.

P405 - Store locked up.

P403 - Store in a well-ventilated place.

Not classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	%	Product identifier	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nitrogen dioxide	100	CAS-No.: 10102-44-0 EC-No.: 233-272-6 EC Index-No.: 007-002-00-0 REACH registration No: 01- 2120770753-48	Ox. Gas 1, H270 Press. Gas (Liq.), H280 Skin Corr. 1B, H314 Eye Dam. 1, H318 Acute Tox. 1 (Inhalation:gas), H330

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

Not applicable

3.2. Mixtures

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.



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- 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 effects, both acute and delayed

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

immediately available. Seek medical advice before using product.

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

Cough, shortness of breath, headache, nausea.

See section 11.

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

Obtain medical assistance.

Treat with corticosteroid spray as soon as possible after inhalation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : 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 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 : Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat

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

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

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

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

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

apparatus.

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

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

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

face mask.

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. Eliminate ignition sources.

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.

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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

: Use only lubricants and sealings approved for the specific gas service.

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

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

Consider pressure relief device(s) in gas installations.

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

Do not smoke while handling product.

Avoid exposure, obtain special instructions before use.

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.

Use no oil or grease.

Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.

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

recommended.

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

Avoid suck back of water, acid and alkalis.

Do not breathe gas.

Avoid release of product into work area.

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.

Safe handling of the gas receptacle

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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.

Segregate from flammable gases and other flammable materials in store.

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

Keep away from combustible materials.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Nitrogen dioxide (10102-44-0) EU - Indicative Occupational Exposure Limit (IOEL)				
IOEL TWA	0.96 mg/m³			
IOEL TWA [ppm]	0.5 ppm			
IOEL STEL	1.91 mg/m³			
IOEL STEL [ppm]	1 ppm			
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164			

DNEL (Derived-No Effect Level) : None available.

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

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.

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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.

Standard EN 166 - Personal eye-protection - specifications.

Provide readily accessible eye wash stations and safety showers.

· Skin protection

· Eye/face protection

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· Respiratory protection

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

Wear chemically resistant protective gloves.

Standard EN 388 - Protective gloves against mechanical risk, performance level 1 or higher.

Standard EN 374 - Protective gloves against chemicals.

Polyvinylchloride (PVC).

- 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.

: 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.

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

face mask

Recommended: Filter NO (blue).

Gas filters do not protect against oxygen deficiency.

Standard EN 14387 - Gas filter(s), combined filter(s) and standard EN136, full face masks .

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.

: 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

Thermal hazards

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

- Colour : Brownish gas.

Odour : Pungent. Poor warning properties at low concentrations.

Odour threshold is subjective and inadequate to warn of overexposure.

Melting point / Freezing point : -11.2 °C

-11.2 °C

Boiling point : 21.1 °C
Flammability : Non flammable.
Lower explosion limit : Not available

Lower explosion limit : Not available Upper explosion limit : Not available

Flash point : Not applicable for gases and gas mixtures.

Auto-ignition temperature : Non flammable.

Decomposition temperature : Not applicable.

pH : 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)

Vapour pressure [20°C]

Vapour pressure [50°C]

Vapour pressure [50°C]

Density and/or relative density

Not available

1 bar(a)

3.4 bar(a)

Not applicable.

Relative vapour density (air=1) : 2.8

Particle characteristics : Not applicable.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosive properties : Not applicable.
Explosion limits : Non flammable.
Oxidising properties : Oxidiser.

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- Coefficient of oxygen equivalency (Ci) : 1 Critical temperature [°C] : 158 °C

9.2.2. Other safety characteristics

Molar mass : 46 g/mol

Evaporation rate : Not applicable for gases and gas mixtures.

Gas group : Press. Gas (Liq.).

Other data : 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 normal conditions.

10.3. Possibility of hazardous reactions

Violently oxidises organic material.

10.4. Conditions to avoid

Acute toxicity

Avoid moisture in installation systems.

10.5. Incompatible materials

May react violently with alkalis.

With water causes rapid corrosion of some metals.

Reacts with water to form corrosive acids.

Moisture.

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.

: Fatal if inhaled.

SECTION 11: Toxicological information

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

LC50 Inhalation - Rat [ppm]		57.5 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.
STOT-single exposure	:	Severe corrosion to the respiratory tract at high concentrations.
STOT-repeated exposure	:	No known effects from this product.

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Aspiration hazard

: Not applicable for gases and gas mixtures.

11.2. Information on other hazards

Other information : Delayed fatal pulmonary oedema possible.

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

12.4. Mobility in soil

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 :

12.7. Other adverse effects

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

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

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Contact supplier if guidance is required.

Must not be discharged to atmosphere.

Gas may be scrubbed in alkaline solution under controlled conditions to avoid violent

reaction.

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.org for more guidance on suitable disposal methods.

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. : 1067

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14.2. UN proper shipping name

Transport by road/rail (ADR/RID) : DINITROGEN TETROXIDE (NITROGEN DIOXIDE)

Transport by air (ICAO-TI / IATA-DGR) : Nitrogen dioxide

Transport by sea (IMDG) : DINITROGEN TETROXIDE (NITROGEN DIOXIDE)

14.3. Transport hazard class(es)

Labelling : 2 5.1 8

2.3: Toxic gases.

5.1 : Oxidizing substances.8 : Corrosive substances.

Transport by road/rail (ADR/RID)

Class : 2
Classification code : 2TOC
Hazard identification number : 265

Tunnel Restriction : 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

Transport by sea (IMDG)

Class / Div. (Sub. risk(s)) : 2.3 (5.1, 8)
Emergency Schedule (EmS) - Fire : F-C
Emergency Schedule (EmS) - Spillage : S-W

14.4. Packing group

Transport by road/rail (ADR/RID) : Not applicable.

Transport by air (ICAO-TI / IATA-DGR) : Not applicable.

Transport by sea (IMDG) : Not applicable.

14.5. Environmental hazards

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

14.6. Special precautions for user

Packing Instruction(s)

Transport by road/rail (ADR/RID) : P200.

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

Passenger and Cargo Aircraft : Forbidden.
Cargo Aircraft only : Forbidden.
Transport by sea (IMDG) : P200.

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

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.



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SECTION 15: Regulatory information

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

EU-Regulations

Restrictions on use

: None.

Other information, restriction and prohibition

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

: Covered.

National regulations

Regulatory reference

: Ensure all national/local regulations are observed.

Not listed on the PIC list (Regulation EU 649/2012).

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 2015/830.

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.	

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H318	Causes serious eye damage.
H330	Fatal if inhaled.
Ox. Gas 1	Oxidising Gases, Category 1
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B

DISCLAIMER OF LIABILITY

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