

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 annex II and EC/2020/878

SPIROMECH AB

IG100 Nitrogen

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Date of issue: 2025-01-20

Version 1

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

1.1 Product identifier	IG100 Nitrogen
CAS-nr	7727-37-9
EG-nr	231-783-9
UFI	-
1.2 Relevant identified uses of the substance or mixture and uses advised against	Fire Extinguishing Agents Industrial Use
1.3 Details of the supplier of the safety data sheet	Spiromec AB Molijns väg 11 589 41 Linköping + 46 (0)13-36 26 60 spiromec@spiromec.se
Telephone	For poison information call, NHS 111 (England), NHS 24 (Scotland) or NHS Direct (Wales), in emergencies call 999.
Homepage/E-mail	
Emergency telephone	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

Classification CLP (1272/2008/EC)

Press. Gas (Comp.); H280

2.2 Label elements:

Pictogram



Signal Word

Warning

Containing substances

Nitrogen

Hazard statement Code(s)

H280 Contains gas under pressure; may explode if heated.

Precautionary statements

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

2.3 Other hazards

The product is not considered to contain substances that meet the criteria for classification as PBT or vPvB substances in concentrations $\geq 0.1\%$

Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$.

High concentrations can displace the normal air and cause suffocation from lack of oxygen.

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SECTION 3: Composition/information on ingredients

3.1 Substances

Components	CAS-No EC-No Reg-No	Conc. %	Hazard Class and Category Code(s)	Hazard statement Code(s)*
Nitrogen	7727-37-9 231-783-9	100	Press. Gas.	H280

* The full text of Hazard statement Codes are listed under section 16.

Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels.

The classification is based on information from the chemical supplier and <http://echa.europa.eu> (Databases)

SECTION 4: First aid measures

4.1 Description of first aid measures:

General Information

In all cases of doubt, or when symptoms persist, seek medical advice.

Inhalation

Fresh air. Contact a doctor if the complaints persist.

Skin contact

Warm the affected body part in lukewarm water if frostbite has occurred. DO NOT use hot water.

Frostbite should be treated by a doctor.

Eye contact

Rinse with lukewarm water for several minutes. Hold eyelids apart. Remove contact lenses, if present and easy to do. Contact a doctor if the complaints persist.

Ingestion

Rinse mouth and immediately give plenty of water or milk to drink. Seek medical advice.

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

Inhalation: High concentrations can displace the normal air and cause suffocation from lack of oxygen.

Skin contact: Contact with rapidly expanding gas may cause frostbite.

Eye contact: May be slightly irritating to eyes. (Pain, redness) frostbite

Ingestion: Ingestion may cause discomfort and vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

The product is not flammable. The product is an extinguishing agent.

5.2 Special hazards arising from the substance or mixture

Containers may burst or explode when heated, due to rapid pressure build-up.

Do not breathe fumes. During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Appropriate breathing apparatus and protective suits may be required.

Additional information

Cool endangered containers with water in case of fire. Move containers from fire area if it can be done without risk.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Ensure good ventilation.

Use breathing apparatus when oxygen levels are low or unknown.

Keep unauthorized and unprotected people at a safe distance.

6.2 Environmental precautions

Should be prevented from entering sewer systems, basements and pits, or other places where gas accumulation could be dangerous.

6.3 Methods and material for containment and cleaning up

Evacuate the area and ventilate the gas. Let the gas from the leaking gas cylinders evaporate outdoors.

6.4 Reference to other sections

For handling and storage, see section 7.

For personal protection, see section 8.

Collected waste is placed in closed metal containers and disposed of as waste according to section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Normal precautions taken when handling chemicals should be observed.

Use only with compatible and approved equipment.

Check pipes and shut-off valves regularly for gas leakages.

Only experienced and properly instructed persons may handle compressed gas.

Use only correctly specified Pressure container: must not be punctured or burned, even when empty. Protect from sunlight. Must not be exposed to temperatures exceeding 50 °C.

Use recommended safety equipment

Do not eat, drink or smoke in areas where this product is handled.

Protect gas cylinders from physical damage; you must not pull, roll, slip or overturn gas cylinder. Use trolleys that are intended for gas cylinders even if the gas cylinder is only moved for short distance

7.2 Conditions for safe storage, including any incompatibilities

The product should be stored in a manner which prevents hazards to health and the environment.

Store tightly, in original packaging.

Store in a well-ventilated space.

7.3 Specific end use(s)

-

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Appropriate engineering controls

Provide adequate ventilation.

Exposure limits

Swedish limit values or limit values according to the European commission:

None established

British limit values (EH40/2005 Workplace exposure limits)

None established

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SECTION 8: Exposure controls/personal protection**DNEL**

No known.

PNEC

No known.

8.2 Exposure controls:**General protective and hygiene measures**

Wash hands before breaks and at the end of work.

Handle in accordance with good industrial hygiene and safety practice.

Escaping gas can cause severe cold.

Individual protection measures, such as personal protective equipment:

Always consult a competent person/supplier when selecting personal protective equipment.

Respiratory protection

Oxygen monitors should be used since suffocating gases may be released.

Hand protection

Use protective gloves that meet the standard EN374, breakthrough time at least 280 minutes, if there is a risk of direct contact. Gloves that protect against cold are recommended. Use protective leather gloves

When selecting gloves, several parameters should be taken into account, use, handling, breakthrough time.

Eye protection

Wear tightly fitting protective goggles if there is a risk of contact with eyes.

Clothing requirements

Normally not needed

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Physical state:**

Gas

Colour:

Colourless

Odour

Odourless

Melting point/freezing point (°C):

Not determined

Boiling point or initial boiling point and boiling range

Not determined

Flammability

Not determined

Lower and upper explosion limit

Not determined

Flash point (°C):

Not determined

Auto-ignition temperature

Not determined

Decomposition temperature

Not determined

pH

Not determined

Kinematic viscosity

Not determined

Solubility

Not determined

Partition coefficient n-octanol/water (log value)

Not determined

Vapour pressure

Not determined

Density and/or relative density

1,18 Air = 1.

Relative vapour density

Not determined

Particle characteristics

Not determined

9.2 Other information: No specific.

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SECTION 10: Stability and reactivity**10.1 Reactivity**

Stable under recommended storage and handling conditions.

10.2 Chemical stability

The product is stable.

10.3 Possibility of hazardous reactions

No known.

10.4 Conditions to avoid

Protect from heat and direct sunlight.

10.5 Incompatible materials

No known.

10.6 Hazardous decomposition products

No known.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

See section 4. (Most important symptoms and effects, both acute and delayed)

Irritating/corrosive properties

Not classified as irritating/corrosive according to CLP.

Acute toxicity

Not classified as acutely toxic according to CLP.

Toxicology data

Information about this preparation is not available.

Specific organotoxicitet STOT-single exposure -repeated exposure

No known.

Routes of exposure:

Eyes and skin, ingestion, inhalation.

Allergenic potential

The product is not classified as allergenic by inhalation or skin contact.

Carcinogenicity, mutagenicity and toxicity for reproduction

This product is not classified as carcinogen, mutagen or toxic for reproduction.

Aspiration hazard

No

11.2 Information on other hazards

Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$.

Risk of frostbite.

Please note that if large quantities are inhaled, there is a risk of suffocation due to lack of oxygen.

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SECTION 12: Ecological information

This product is not classified as dangerous for the environment.

Do not flush into surface water or sanitary sewer system.

12.1 Toxicity

Information about this preparation is not available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

Evaporates quickly in air.

12.5 Results of PBT and vPvB assessment

This product is not considered to contain any substances that meet the criteria for classification as PBT or vPvB substances.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$.

12.7 Other adverse effects

No known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

The product

Dispose of in accordance with local authority requirements. Do not empty into drain.

Hazardous waste.

Disposal of Packaging

Empty and cleaned packaging can be recycled.

SECTION 14: Transport information

The product are classified as dangerous goods according to ADR/RID, IMDG, IATA-DGR.

14.1 UN number or ID number

1066

14.2 UN proper shipping name

NITROGEN, COMPRESSED

14.3 Transport hazard class(es)

2

14.4 Packing group

-

14.5 Environmental hazards

Marine Pollutant: No

14.6 Special precautions for user

-

14.7 Maritime transport in bulk according to IMO instruments

-

Tunnelcategory:

E

LQ

120 ml

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SECTION 15: Regulatory information

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

Classification according to Regulation (EC) No. 1907/2006 annex II and EC/2020/878. EH40/2005.

(EU) REACH Annex XVII

None listed.

(EU) Candidate List of substances of very high concern

None listed.

(EU) REACH Annex XIV

None listed.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

The full text of Hazard statement Codes listed under section 3

H280 Contains gas under pressure; may explode if heated

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Safety data sheet according to Regulation (EC) No. 1907/2006 annex II and EC/2020/878.

Sources

Safety data sheet provided by the manufacturer.

CLP-regulation, www.kemi.se, EH40/2005. www.echa.europa.eu (Databases)

Explanation of abbreviations

BCF: Bio Concentration Factor.

CAS-nr: Chemical Abstracts Service number

EC₅₀: Effect Concentration

IMDG: International Maritime Dangerous Goods Code.

LC₅₀: Lethal Concentration

LD₅₀: Lethal Dose

NOEC: No Observed Effect Concentration

PBT- substances: Persistent, Bio accumulative and Toxic substances.

vPvB- substances: Very persistent and Very Bio accumulative substances.