

Boron trifluoride

Safety Data Sheet LIND-P010

Legacy SDS ID: P-4567

This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Issue date: 03/13/2015 Revision date: 03/31/2025 Supersedes: 07/02/2024 SDS US Version: 2.5

SECTION: 1. Product and company identification

1.1. Product identifier

Product form : Substance
 Substance name : Boron trifluoride
 CAS-No. : 7637-07-2
 Formula : BF₃

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

Use of the substance/mixture : Industrial and professional use

1.3. Details of the supplier of the safety data sheet

Linde Inc.
 10 Riverview Drive
 Danbury, CT 06810-6268, USA
 www.lindeus.com

Electronics gas products 1-800-932-0624 or 1-908-329-9700
 Linde Inc. 1-844-44LINDE (1-844-445-4633)

For additional product information contact your local customer service.

1.4. Emergency telephone number

Emergency number : Onsite Emergency: 1-800-645-4633

CHEMTREC, 24 hr/day 7 days/week
 — Within USA: 1-800-424-9300, Outside USA: 001-703-527-3887
 (collect calls accepted, Contract 17729)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

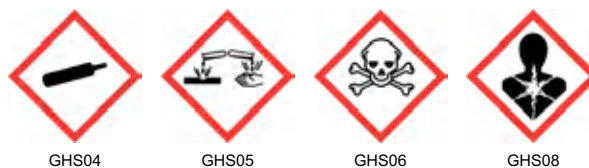
GHS-US classification

Press. Gas (Comp.) H280
 Acute Tox. 2 (Inhalation: gas) H330
 Skin Corr. 1A H314
 Eye Dam. 1 H318
 STOT SE 3 H335
 STOT RE 2 H373
 Aquatic Acute 3 H402

2.2. Label elements

GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED
 H314 - CAUSES SEVERE SKIN BURNS AND EYE DAMAGE
 H330 - FATAL IF INHALED
 H373 - MAY CAUSE DAMAGE TO ORGANS (KIDNEYS) THROUGH PROLONGED OR REPEATED EXPOSURE
 CGA-HG11 - SYMPTOMS MAY BE DELAYED
 CGA-HG22 - CORROSIVE TO THE RESPIRATORY TRACT.

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Precautionary statements (GHS US) :

- P202 - Do not handle until all safety precautions have been read and understood.
- P260 - Do not breathe gas
- P262 - Do not get in eyes, on skin, or on clothing.
- P264 - Wash exposed skin thoroughly after handling
- P271+P403 - Use and store only outdoors or in a well-ventilated place
- P280+P284 - Wear protective gloves/protective clothing/eye protection/respiratory protection and/or face protection
- P405 - Store locked up.
- P501 - Dispose of contents/container in accordance with container supplier/owner instructions
- CGA-PG05 - Use a back flow preventive device in the piping.
- CGA-PG20+CGA-PG10 - Use only with equipment of compatible materials of construction and rated for cylinder pressure.
- CGA-PG12 - Do not open valve until connected to equipment prepared for use.
- CGA-PG06 - Close valve after each use and when empty.
- CGA-PG18 - When returning cylinder, install leak tight valve outlet cap or plug.
- CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F).
- P304, P340, P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Contact an ophthalmologist immediately.
- P303, P361, P353, P363, P310 - IF ON SKIN OR (HAIR): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER/doctor.
- CGA-PG34 - SPECIFIC TREATMENT: Immediately apply calcium gluconate or equivalent to affected areas.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%
Boron trifluoride (Main constituent)	(CAS-No.) 7637-07-2	100

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Immediately remove to fresh air. If not breathing, give artificial respiration. **WARNING:** To avoid possible chemical burns, the rescuer should avoid breathing any exhaled air from the victim. Qualified personnel should give oxygen at half-hour intervals for 3-4 hours. Call a physician immediately.

First-aid measures after skin contact : In case of contact, immediately flush affected areas with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash clothing before reuse. Discard contaminated shoes.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. Contact an ophthalmologist immediately.

First-aid measures after ingestion : Ingestion is not considered a potential route of exposure.

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Reacts with water.

5.2. Special hazards arising from the substance or mixture

Reactivity : No reactivity hazard other than the effects described in sub-sections below.

5.3. Advice for firefighters

Firefighting instructions : Evacuate all personnel from the danger area. Use self-contained breathing apparatus (SCBA) and protective clothing. Immediately cool containers with water from maximum distance. Stop flow of gas if safe to do so, while continuing cooling water spray. Remove ignition sources if safe to do so. Remove containers from area of fire if safe to do so. On-site fire brigades must comply with OSHA 29 CFR 1910.156 and applicable standards under 29 CFR 1910 Subpart L—Fire Protection.

Protection during firefighting : **DANGER! Toxic, corrosive, high-pressure gas..**

Special protective equipment for fire fighters : Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.

Specific methods : Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas containers to rupture. Cool endangered containers with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems.

If leaking do not spray water (reacts violently).

Other information : Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by TC.).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : **Danger: Toxic. Corrosive.** Wear a self-contained breathing apparatus and appropriate personal protective equipment (PPE). (gas tight, chemical-protective) Evacuate personnel to a safe area. Approach suspected leak area with caution. Remove all sources of ignition. Toxic, corrosive vapor can spread from spill. Ventilate area or move container to a well-ventilated area. Before entering the area, especially a confined area, check the atmosphere with an appropriate device. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent waste from contaminating the surrounding environment. Prevent soil and water pollution. Dispose of contents/container in accordance with container supplier/owner instructions.

6.3. Methods and material for containment and cleaning up

No additional information available

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

Precautions for safe handling : Do not breathe gas/vapour. Avoid all contact with skin, eyes, or clothing. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Wear leather safety gloves and safety shoes when handling cylinders. Protect containers from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g. wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this product, see section 16.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a cool, well-ventilated place. Store and use with adequate ventilation. Store only where temperature will not exceed 125°F (52°C). Firmly secure containers upright to keep them from falling or being knocked over. Install valve protection cap firmly in place by hand. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods.

OTHER PRECAUTIONS FOR HANDLING, STORAGE, AND USE: When handling product under pressure, use piping and equipment adequately designed to withstand the pressures to be encountered. Never work on a pressurized system. Use a back flow preventive device in the piping. Gases can cause rapid suffocation because of oxygen deficiency; store and use with adequate ventilation. If a leak occurs, close the container valve and blow down the system in a safe and environmentally correct manner in compliance with all international, federal/national, state/provincial, and local laws; then repair the leak. Never place a container where it may become part of an electrical circuit.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Boron trifluoride (7637-07-2)		
ACGIH	ACGIH OEL TWA	0.1 ppm
ACGIH	ACGIH OEL C	0.7 ppm
USA OSHA	OSHA PEL C	3 mg/m ³
USA OSHA	OSHA PEL C	1 ppm
USA IDLH	IDLH	25 ppm

8.2. Exposure controls

Appropriate engineering controls : Use corrosion-proof equipment. USE ONLY IN A CLOSED SYSTEM. An explosion-proof, corrosion-resistant, forced-draft fume hood is preferred.

Eye protection : Wear safety glasses with side shields. Wear goggles and a face shield when transfilling or breaking transfer connections. Provide readily accessible eye wash stations and safety showers.

Skin and body protection : Wear metatarsal shoes and work gloves for cylinder handling, and protective clothing where needed. Wear appropriate chemical gloves during cylinder changeout or wherever contact with product is possible.

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Respiratory protection : When workplace conditions warrant respirator use, follow a respiratory protection program that meets or exceeds the requirements of the appropriate Health and Safety Regulations. Use an air-supplied or air-purifying cartridge if the action level is exceeded. Ensure that the respirator has the appropriate protection factor for the exposure level. If cartridge type respirators are used, the cartridge must be appropriate for the chemical exposure. For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Gas
Molecular mass : 68 g/mol
Colour : Gives off white fumes in moist air. Colourless.
Odour : Pungent.
Odour threshold : Odour threshold is subjective and inadequate to warn of overexposure.
pH : Not applicable.
Relative evaporation rate (butylacetate=1) : No data available
Relative evaporation rate (ether=1) : Not applicable.
Melting point : -127.1 °C (-196.78°F)
Freezing point : No data available
Boiling point : -99.8 °C (-147.64°F)
Flash point : Not applicable.
Critical temperature : -12.2 °C (10.04°F)
Auto-ignition temperature : Non flammable.
Decomposition temperature : No data available
Flammability : No data available
Vapour pressure : No data available
Critical pressure : 4980 kPa
Relative vapour density at 20°C : No data available
Relative density : 1.6
Density : 2.84 kg/m³ (at 15 °C)
Relative gas density : 2.4
Solubility : Water: 541000 mg/l Completely soluble.
Partition coefficient n-octanol/water (Log Pow) : Not applicable.
Partition coefficient n-octanol/water (Log Kow) : Not applicable.
Viscosity, kinematic : Not applicable.
Viscosity, dynamic : Not applicable.
Explosive properties : Not applicable.
Oxidizing properties : None.
Explosive limits : Not known.

9.2. Other information

Additional information : 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.

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10.3. Possibility of hazardous reactions

May occur. REACTS VIOLENTLY WITH WATER. Reaction with moisture in the atmosphere forms a fuming, white cloud that thickens with increased humidity.

10.4. Conditions to avoid

Water, humidity. Moisture.

10.5. Incompatible materials

Water. Rubber. Plastics. Organic materials. Alkali metals. Alkaline earth metals. (except magnesium). Calcium oxide. Silver.

10.6. Hazardous decomposition products

Thermal decomposition may produce : Boron (B). Fluorine. Reacts with water to form toxic and corrosive vapours. Boron trifluoride. Fluorides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
 Acute toxicity (dermal) : Not classified
 Acute toxicity (inhalation) : Inhalation:gas: FATAL IF INHALED.

Boron trifluoride (\f)7637-07-2	
LC50 Inhalation - Rat [ppm]	806 ppm/1h
ATE US (gases)	403 ppmv/4h

Skin corrosion/irritation : CAUSES SEVERE SKIN BURNS.
 pH: Not applicable.

Serious eye damage/irritation : CAUSES SERIOUS EYE DAMAGE.
 pH: Not applicable.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : MAY CAUSE RESPIRATORY IRRITATION.

STOT-repeated exposure : MAY CAUSE DAMAGE TO ORGANS (KIDNEYS) THROUGH PROLONGED OR REPEATED EXPOSURE.

Aspiration hazard : Not applicable

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No known ecological damage caused by this product.

Boron trifluoride (7637-07-2)	
EC50 - Crustacea [1]	21.3 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2. Persistence and degradability

Boron trifluoride (7637-07-2)	
Persistence and degradability	Hydrolyses. Not applicable for inorganic products.

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12.3. Bioaccumulative potential

Boron trifluoride (7637-07-2)	
Partition coefficient n-octanol/water (Log Pow)	Not applicable.
Partition coefficient n-octanol/water (Log Kow)	Not applicable.
Bioaccumulative potential	No data available.

12.4. Mobility in soil

Boron trifluoride (7637-07-2)	
Mobility in soil	No data available.
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution. Partition into soil is unlikely.

12.5. Other adverse effects

Other adverse effects	: May cause pH changes in aqueous ecological systems.
Effect on the ozone layer	: None.
Effect on global warming	: No known effects from this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Do not attempt to dispose of residual or unused quantities. Return container to supplier.

SECTION 14: Transport information

In accordance with DOT

Transport document description (DOT)	: UN1008 Boron trifluoride, 2.3 (8)
UN-No. (DOT)	: UN1008
Proper Shipping Name (DOT)	: Boron trifluoride
Transport hazard class(es) (DOT)	: 2.3 (8)
Hazard labels (DOT)	: Poison Gas 2.3 - Poison gas 8 - Corrosive



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DOT Special Provisions (49 CFR 172.102) : 2 - This material is poisonous by inhalation (see 171.8 of this subchapter) in Hazard Zone B (see 173.116(a) or 173.133(a) of this subchapter), and must be described as an inhalation hazard under the provisions of this subchapter.

238 - Neutron radiation detectors: a. Neutron radiation detectors containing non-pressurized boron trifluoride gas in excess of 1 gram (0.035 ounces) and radiation detection systems containing such neutron radiation detectors as components may be transported by highway, rail, vessel, or cargo aircraft in accordance with the following: a. Each radiation detector must meet the following conditions: (1) The pressure in each neutron radiation detector must not exceed 105 kPa absolute at 20 °C (68 °F); (2) The amount of gas must not exceed 13 grams (0.45 ounces) per detector; and (3) Each neutron radiation detector must be of welded metal construction with brazed metal to ceramic feed through assemblies. These detectors must have a minimum burst pressure of 1800 kPa as demonstrated by design type qualification testing; and (4) Each detector must be tested to a 1×10^{-10} cm³/s leaktightness standard before filling. b. Radiation detectors transported as individual components must be transported as follows: (1) They must be packed in a sealed intermediate plastic liner with sufficient absorbent or adsorbent material to absorb or adsorb the entire gas contents. (2) They must be packed in strong outer packagings and the completed package must be capable of withstanding a 1.8 meter (5.9 feet) drop without leakage of gas contents from detectors. (3) The total amount of gas from all detectors per outer packaging must not exceed 52 grams (1.83 ounces). c. Completed neutron radiation detection systems containing detectors meeting the conditions of paragraph a(1) of this special provision must be transported as follows: (1) The detectors must be contained in a strong sealed outer casing; (2) The casing must contain include sufficient absorbent or adsorbent material to absorb or adsorb the entire gas contents; (3) The completed system must be packed in strong outer packagings capable of withstanding a 1.8 meter (5.9 feet) drop test without leakage unless a system's outer casing affords equivalent protection. d. Except for transportation by aircraft, neutron radiation detectors and radiation detection systems containing such detectors transported in accordance with paragraph a. of this special provision are not subject to the labeling and placarding requirements of part 172 of this subchapter. e. When transported by highway, rail, vessel, or as cargo on an aircraft, neutron radiation detectors containing not more than 1 gram of boron trifluoride, including those with solder glass joints are not subject to any other requirements of this subchapter provided they meet the requirements in paragraph a(1) of this special provision and are packed in accordance with paragraph a(2) of this special provision. Radiation detection systems containing such detectors are not subject to any other requirements of this subchapter provided they are packed in accordance with paragraph a(3) of this special provision.

B9 - Bottom outlets are not authorized.

B14 - Each bulk packaging, except a tank car or a multi-unit-tank car tank, must be insulated with an insulating material so that the overall thermal conductance at 15.5 C (60 F) is no more than 1.5333 kilojoules per hour per square meter per degree Celsius (0.075 Btu per hour per square foot per degree Fahrenheit) temperature differential. Insulating materials must not promote corrosion to steel when wet.

Additional information

Emergency Response Guide (ERG) Number : 125

Other information : No supplementary information available.

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.

Transport by sea

UN-No. (IMDG) : 1008

Proper Shipping Name (IMDG) : BORON TRIFLUORIDE

Transport hazard class(es) (IMDG) : 2.3 (8)

Division (IMDG) : 2.3 - Toxic gases

EmS-No. (1) : F-C

EmS-No. (2) : S-U

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Other information : No supplementary information available.

Air transport

UN-No. (IATA) : 1008
 Proper Shipping Name (IATA) : Boron trifluoride
 Transport hazard class(es) (IATA) : 2.3 (8)

SECTION 15: Regulatory information

15.1. US Federal regulations

Boron trifluoride (7637-07-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on the United States SARA Section 302	
Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	500 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb
SARA Section 313 - Emission Reporting	1 %

15.2. International regulations

CANADA

Boron trifluoride (7637-07-2)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Boron trifluoride (7637-07-2)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

15.2.2. National regulations

Boron trifluoride (7637-07-2)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Japanese Poisonous and Deleterious Substances Control Law
Japanese Pollutant Release and Transfer Register Law (PRTR Law)
Listed on the Canadian IDL (Ingredient Disclosure List)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

Boron trifluoride(7637-07-2)	
U.S. - California - Proposition 65 - Carcinogens List	No
U.S. - California - Proposition 65 - Developmental Toxicity	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No



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Boron trifluoride(7637-07-2)	
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List

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SECTION 16: Other information

Other information

: Prior to using any plastics, confirm their compatibility with this chemical.

When you mix two or more chemicals, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Before using any plastics, confirm their compatibility with this product.

Linde asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information.

The opinions expressed herein are those of qualified experts within Linde Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use are not within the control of Linde Inc, it is the user's obligation to determine the conditions of safe use of the product.

Linde SDSs are furnished on sale or delivery by Linde or the independent distributors and suppliers who package and sell our products. To obtain current SDSs for these products, contact your sales representative, local distributor, or supplier, or download from www.lindeus.com.

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Revision date

: 03/31/2025

SDS US (GHS HazCom 2012) - Linde 2022

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.