

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Bromic Nitrogen Mix Food Grade Cylinder 2.2L**
 Part Number:
 Product Use: Food Additive
 Restriction of Use in NZ: Refer to Section 15

Australian Importer: **BROMIC PTY LTD (ABN 88 001 648 979)**
 Address: 10 Phiney Place
 Ingleburn
 NSW 2565 AUSTRALIA

Tel: +61 2 9426 5222
Australian Emergency No 1300 276 642

Date of SDS Preparation: 31 October 2022

Section 2. Hazards Identification

NOT classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Pictograms



Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Liquefied Gas	H280	Contains Gas under pressure; may explode if heated

Prevention Code	Prevention Statement
P103	Read label before use.

Response Code	Response Statement
None allocated	

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Nitrogen	≥99.99%	7727-37-9

Section 4. First Aid Measures

General	Do not give anything by oral to the victim. Evacuate the victim from the danger area to a ventilated area.
If in Eyes	Not expected to present a significant eyes hazard under anticipated conditions of normal use.
If on Skin	Not expected to present a significant skin hazard under anticipated conditions of normal use.
If Swallowed	Unlikely route of exposure. As this product is a gas, refer to the section "Inhalation". Do not induce vomiting without medical advice. Obtain immediate medical attention.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Administer oxygen if necessary. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms: In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Remove victim to uncontaminated area wearing self-contained breathing apparatus. Apply artificial respiration if breathing stopped.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable gas
Hazards from products	Fire exposure can cause the breaking and and explosion of the cylinder(s).
Suitable Extinguishing media	All known extinguishing can be used.
Precautions for firefighters and special protective clothing	In confined space use self-contained breathing apparatus. If possible, stop flow of products.
HAZCHEM CODE	2T

Section 6. Accidental Release Measures**Personal precautions:**

Refer to Section 8 for PPE requirements. Evacuate area of unnecessary personnel. Ensure adequate air ventilation.

Environmental precautions:

Try to stop release.

Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

Spill and Disposal procedures:

If the cylinder leaks and it cannot be stopped, bring the cylinder outdoors, in a ventilated area, and leave it to vent to the atmosphere.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Do not eat, drink and/or smoke in the working areas or plants.
- For container handling, use proper personal protective equipment such as safety shoes and gloves.
- Do not allow back feed into the container.
- Suck back of water into the container must be prevented.
- Use only properly specified equipment which are suitable for this product.
- Open slowly the valve to avoid pressure blows.
- Avoid the direct contact of the product.
- Handle carefully the contains, thus avoiding violent collisions between them or against other surfaces, as well as falls and other mechanical strains susceptible to damage their integrity/resistance.
- Contact your supplier if in doubt.

Precautions for Storage:

- Keep container below 50°C in a well ventilated place.
- Avoid against collisions.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace exposure standards for airborne contaminants (2019)” under Safe Work Australia.

Engineering Controls

Avoid under-oxygenated atmospheres (O₂<18%). In high concentrations may cause asphyxiation. Ensure suitable ventilation. Ensure skin and eyes protection appropriate to the conditions of use.

Personal Protection Equipment



Eyes	Safety glasses with side-shields (according to directive EN 166).
Hands	Use gauntlet according to EN 388
Skin	Wear long-sleeved clothes. Remove or clean contaminated clothing. Apron or protective clothing are not necessary.
Respiratory	No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

Section 9 Physical and Chemical Properties

Appearance	Gas
Colour	Colourless
Odour	Undeterminable

Product Name: **Bromic Nitrogen Mix Food**
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SDS Prepared by: Technical Compliance Consultants (NZ) Ltd
Tel: 64 9 475 5240 www.techcomp.co.nz

Odour Threshold	Not available
pH	Not available
Boiling Point	196°C (1,013 bar)
Melting Point	210°C (1,013 bar)
Freezing Point	Not available
Flash Point	Not available
Flammability	Non flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	1.147 kg m ³ (a 288 K e 98 kPa)
Relative Density	0.97
Water Solubility	20 mg/l (15 °C; 1,013bar)
Partition Coefficient:	Not applicable for inorganic gases
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available
Molecular mass	Not available
VOC content	Not available
Other Information	Critical temperature: -146.96 °C Critical pressure: 33.958 bar Critical density: 535.6 kg/m ³ Triple point temperature: -210° C Triple point pressure: 12.52 kPa

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	None known.
Conditions to Avoid	Keep away from heat/ sparks/open flames/hot surfaces; No smoking.
Incompatible Materials	None known.
Hazardous Decomposition Products	None known.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not classified.
Dermal	Not classified.
Inhalation	Not classified.
Eye	Not classified.
Skin	Not classified.

Chronic Effects:

Carcinogenicity	Not classified.
Reproductive Toxicity	Not classified.
Germ Cell Mutagenicity	Not classified.
Aspiration	Not classified.
STOT/SE	Not classified.
STOT/RE	Not classified.
Other hazards	Not classified.

Section 12. Ecotoxicological Information

No known ecological damage caused by this product.

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Section 13. Disposal Considerations

Disposal Method:

Do not discharge where the accumulation can be dangerous, but in the atmosphere and in a well-ventilated area.

The cylinders are non-refillable containers. In case the cylinder should be put out of use, ask the manufacturer / supplier for recovery / recycling information. Contact the supplier if disposal instructions are deemed necessary.

Precautions or methods to avoid: None known.

Section 14 Transport Information

This product is classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition).

Road and Rail Transport

UN No: 1066
Class-primary: 2.2
Proper Shipping Name: NITROGEN, COMPRESSED

Air Transport

UN No: 1066
Class-primary: 2.2
Proper Shipping Name: NITROGEN, COMPRESSED

Marine Transport

UN No: 1066
Class-primary: 2.2
Proper Shipping Name: NITROGEN, COMPRESSED
Marine pollutant: No

Section 15 Regulatory Information

Not classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Section 16 Other Information

Glossary

Cat	Category
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms

LD ₅₀	inhaling or ingesting it.
LEL	Lethal dose to kill 50% of test animals/organisms.
OSHA	Lower explosive level.
TEL	American Occupational Safety and Health Administration.
TLV	Tolerable Exposure Limit.
UEL	Threshold Limit Value-an exposure limit set by responsible authority.
WES	Upper Explosive Level Workplace Exposure Limit

References:

1. Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
2. Standard for the Uniform Scheduling of Medicines and Poisons.
3. Australian Code for the Transport of Dangerous Goods by Road & Rail.
4. Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
5. Workplace exposure standards for airborne contaminants, Safe work Australia.
6. American Conference of Industrial Hygienists (ACGIH).
7. Globally Harmonised System of classification and labelling of chemicals.

Disclaimer

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Please contact the Australian Manufacturer, if further information is required.

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