

## Safety Data Sheet NICKEL BROMIDE Anhydrous

SDS no. ZHGKYP7Q • Version 1.0 • Date of issue: 2024-07-11

### SECTION 1: Identification

#### GHS Product identifier

Product name NICKEL BROMIDE Anhydrous

#### Other means of identification

Name	Product Code
NICKEL BROMIDE Anhydrous LR	NL029
Nickel dibromide, Nickelous bromide	

#### Recommended use of the chemical and restrictions on use

Laboratory reagent.

#### Supplier's details

Name	ChemSupply Australia Pty Ltd
Address	38-50 Bedford Street 5013 Gillman South Australia Australia
Telephone	08 8440 2000
email	www.chemsupply.com.au

#### Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

### SECTION 2: Hazard identification

#### General hazard statement

Class 9 Miscellaneous dangerous goods shall not be loaded in a vehicle with: - Class 1 Explosives - Class 5. 1 Oxidizing agents (when Class 9 substance capable of igniting and burning - Class 5. 2 Organic peroxides (when Cl. 9 capable of igniting/burning).

SPECIAL PROVISION AU01 States:

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 not subject to this Code when transported by road or rail;

- (a) packagings;
- (b) IBCs; or
- (c) any other receptacle not exceeding 500 kg(L).

#### Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Acute toxicity, inhalation, Cat. 4
- Acute toxicity, oral, Cat. 4
- Hazardous to the aquatic environment, short-term (acute), Cat. 1
- Hazardous to the aquatic environment, long-term (chronic), Cat. 1
- Carcinogenicity, Cat. 1A
- Germ cell mutagenicity, Cat. 2
- Toxic to reproduction, Cat. 1
- Respiratory sensitizer, Cat. 1
- Skin corrosion/irritation, Cat. 2
- Skin sensitizer, Cat. 1
- Specific target organ toxicity following repeated exposure, Cat. 1

**GHS label elements, including precautionary statements**

**Pictograms**



**Signal word**

**Danger**

**Hazard statement(s)**

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H341	Suspected of causing genetic defects
H350	May cause cancer
H360	May damage fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects

**Precautionary statement(s)**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell,
P302+P352	IF ON SKIN: Wash with plenty of water/soap
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor/physician if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physician
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P405	Store locked up.

P501

Dispose of contents/container to an approved waste disposal facility

### SECTION 3: Composition/information on ingredients

#### Mixtures

Molecular weight: 218.53

#### Components

Component	CAS no.	Concentration
<b>Nickel (II) bromide (EC no.: 236-665-0)</b>	<b>13462-88-9</b>	<b>100 - 100 % (weight)</b>
CLASSIFICATIONS: Acute toxicity, inhalation, Cat. 4; Acute toxicity, oral, Cat. 4; Carcinogenicity, Cat. 1A; Germ cell mutagenicity, Cat. 2; Hazardous to the aquatic environment, long-term (chronic), Cat. 1; Hazardous to the aquatic environment, short-term (acute), Cat. 1; Respiratory sensitizer, Cat. 1; Skin corrosion/irritation, Cat. 2; Skin sensitizer, Cat. 1; Specific target organ toxicity following repeated exposure, Cat. 1; Toxic to reproduction, Cat. 1. HAZARDS: H302 - Harmful if swallowed; H315 - Causes skin irritation; H317 - May cause an allergic skin reaction; H332 - Harmful if inhaled; H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled; H341 - Suspected of causing genetic defects [route]; H350 - May cause cancer [route]; H360 - May damage fertility or the unborn child [effect, route]; H372 - Causes damage to organs [organs] through prolonged or repeated exposure [route]; H400 - Very toxic to aquatic life; H410 - Very toxic to aquatic life with long lasting effects.		

### SECTION 4: First-aid measures

#### Description of necessary first-aid measures

General advice	First Aid Facilities: Maintain eyewash fountain and drench facilities in work area.
If inhaled	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Immediately obtain medical aid if cough or other symptoms appear.
In case of skin contact	Immediately remove contaminated clothing and wash affected area with water for at least 15 minutes. Ensure contaminated clothing is washed before re-use. Seek medical advice /attention depending on the severity.
In case of eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.
If swallowed	Rinse mouth thoroughly with water immediately. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

#### Most important symptoms/effects, acute and delayed

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

#### Indication of immediate medical attention and special treatment needed, if necessary

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

### SECTION 5: Fire-fighting measures

#### Suitable extinguishing media

Use measures suitable for extinguishing surrounding fire.

#### Specific hazards arising from the chemical

Hazards from Combustion Products: Hydrogen bromide gas and oxides of nickel.

Material does not burn. Fire or heat may produce irritating, poisonous and/or corrosive gases. Runoff will pollute waterways.

**Special protective actions for fire-fighters**

Use suitable protective equipment for surrounding fire.

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**SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

Evacuate the area of all non-essential personnel. Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

Wear protective clothing specified for normal operations (see Section 8)

**Environmental precautions**

Prevent from entering into drains, ditches, rivers or the sea

**Methods and materials for containment and cleaning up**

Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

Seek expert advice on handling and disposal.

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**SECTION 7: Handling and storage**

**Precautions for safe handling**

When using do not eat or drink. Use local exhaust extraction over processing area. Avoid generation or accumulation of dusts. Avoid exposure - obtain special instructions before use.

Avoid generating and inhaling dust.

**Conditions for safe storage, including any incompatibilities**

Store away from oxidizing agents. Store away from acids. Store away from foodstuffs. Keep containers securely sealed and protected against physical damage.

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

**Appropriate engineering controls**

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

**Individual protection measures, such as personal protective equipment (PPE)**

**Eye/face protection**

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

**Skin protection**

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hand Protection: Ensure hand protection complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

**Body protection**

Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

## Safety Data Sheet

### NICKEL BROMIDE Anhydrous

SDS no. ZHGKYP7Q • Version 1.0 • Date of issue: 2024-07-11

Body Protection: Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

#### Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

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## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

Physical state	Solid
Appearance	Yellow to brown powder.
Color	No data available.
Odor	No data available.
Odor threshold	No data available.
Melting point/freezing point	962 - 964 deg C.
Boiling point or initial boiling point and boiling range	No data available.
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	No data available.
Kinematic viscosity	No data available.
Solubility	Solubility in Water: 567 g/L @ 20 °C Solubility in Organic Solvents: Soluble in alcohol, ether and ammonium hydroxide.
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	No data available.
Relative vapor density	No data available.
Particle characteristics	No data available.

### Supplemental information regarding physical hazard classes

No data available.

### Further safety characteristics (supplemental)

No data available.

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## SECTION 10: Stability and reactivity

### Reactivity

Stable under normal conditions of storage and handling.

### Chemical stability

Stable under recommended storage conditions.

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SDS no. ZHGKYP7Q • Version 1.0 • Date of issue: 2024-07-11

### Possibility of hazardous reactions

Hazardous Polymerization: Will not occur.

### Conditions to avoid

Incompatible materials, dust generation, excess heat, exposure to moist air or water.

### Incompatible materials

Strong oxidisers, acids and metals.

### Hazardous decomposition products

Hydrogen bromide gas.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Ingestion: May be harmful if swallowed.

Inhalation: Harmful if inhaled. May cause cancer by inhalation.

#### Skin corrosion/irritation

May cause sensitisation by skin contact. Exposure to a sensitiser, once sensitisation has occurred, may manifest itself as a skin rash or inflammation or as an asthmatic condition, and in some individuals this reaction can be extremely severe.

#### Serious eye damage/irritation

Irritating to eyes.

#### Respiratory or skin sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### Germ cell mutagenicity

Suspected of causing genetic defects.

#### Carcinogenicity

International Agency for Research on Cancer: Classified as a Group 1 carcinogen to humans. Established human carcinogens are those substances known to be carcinogenic to humans. There is sufficient evidence to establish a causal association between human exposure to these substances and the development of cancer.

#### Reproductive toxicity

Possible risk of harm to the unborn child.

#### Specific target organ toxicity (STOT) - single exposure

No data available.

#### Specific target organ toxicity (STOT) - repeated exposure

Causes damage to organs through prolonged or repeated exposure

#### Aspiration hazard

No data available.

#### Additional information

No data available.

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## **SECTION 12: Ecological information**

### **Toxicity**

A harmful effect on aquatic organisms cannot be excluded in the event of improper handling or disposal.

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## **SECTION 13: Disposal considerations**

### **Disposal methods**

#### **Product disposal**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

#### **Other disposal recommendations**

Do not discharge this material into waterways, drains and sewers.

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## **SECTION 14: Transport information**

### **ADG (Road and Rail)**

UN Number: 3077

Class: 9

Packing Group: III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains NICKEL BROMIDE)

### **Hazchem emergency action code (EAC)**

2X

### **IMDG**

UN Number: 3077

Class: 9

Packing Group: III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains NICKEL BROMIDE)

### **IATA**

UN Number: 3077

Class: 9

Packing Group: III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains NICKEL BROMIDE)

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## **SECTION 15: Regulatory information**

### **Safety, health and environmental regulations specific for the product in question**

#### **Australia SUSMP**

Poison Schedule: NS

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## **SECTION 16: Other information**

### **Further information/disclaimer**

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended.

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**Preparation information**

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia  
National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'  
Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.  
Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.  
Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019  
Safe Work Australia, Hazardous Chemical Information System (HCIS), [hcis.safeworkaustralia.gov.au](http://hcis.safeworkaustralia.gov.au)  
IATA, Dangerous Goods Regulations (DGR)  
IMO, International Maritime Dangerous Goods Code (IMDG)