

Safety Data Sheet

1. Identification of the substance

- 1.1. *Product identifiers:* **Product Name:** Nickel(ii) bromide
Synonyms:
Catalog number: QE-2833
CAS Number: 13462-88-9
- 1.2. *Identified use:* Laboratory chemicals, for scientific research and development only.
- 1.3. *Supplier:* Combi-Blocks, Inc., 7949 Silverton Ave # 915, San Diego, CA 92126, USA. Tel: 858-635-8950. Email: sales@combi-blocks.com.
- 1.4. *Emergency Contact:* During normal business hours (Monday-Friday 8am-5pm PST), call 1-858-635-8950. After business hours, call Infotrac at 1-800-535-5053 (USA) or 1-352-323-3500 (international).

2. Hazards identification

- 2.1. *Classification of the substance or mixture:*
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
- Sensitisation, Skin (Category 1), H317
Sensitisation, respiratory (Category 1), H334
Germ cell mutagenicity (Category 2), H341
Specific target organ toxicity, repeated exposure (Category 1), H372
Hazardous to the aquatic environment, long-term hazard (Category 1), H410

- 2.2. *GHS Label elements, including precautionary statements:*

Pictograms



Signal word

Danger

Hazard statement(s).

- H317** May cause an allergic skin reaction
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H341 Suspected of causing genetic defects
H372 Causes damage to organs through prolonged or repeated exposure
H410 Very toxic to aquatic life with long lasting effects

Precautionary statement(s).

- P260** Do not breathe dust/fume/gas/mist/vapours/spray.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
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.
P285 In case of inadequate ventilation wear respiratory protection.
P302+P352 If on skin: Wash with soap and water.
P304+P340+P312 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P314 Get Medical advice/attention if you feel unwell.
P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.
P403+P233 Store in a well ventilated place. Keep container tightly closed.
P405 Store locked up.

P501

Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients.

3.1. Substances

COMPONENT	CLASSIFICATION	CONCENTRATION
Nickel(ii) bromide	H317, H334, H341, H350I, H360D, H372, H410	≤ 100

See Section 2 for full text of hazard statements.

4. First aid measures

4.1. Description of first aid measures.

- General advice:* Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
- If inhaled:* Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- In case of skin contact:* Wash with soap and water.
- In case of eye contact:* Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention.
- If swallowed:* Wash out mouth with copious amounts of water for at least 15 minutes. Seek medical attention.

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

See Section 2.2 and/or in Section 11.

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

No data.

5. Fire fighting measures

- 5.1. *Extinguishing media:* Use dry sand, dry chemical or alcohol-resistant foam for extinction.
- 5.2. *Special hazards arising from the substance or mixture:* nitrogen oxides, hydrogen bromide.
- 5.3. *Advice for firefighters:* Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4. *Further information:* No data available.

6. Accidental release measures

- 6.1. *Personal precautions, protective equipment and emergency procedures:*
Ensure adequate ventilation. Use personal protective equipment.
- 6.2. *Environmental precautions:*
Should not be released into the environment. See Section 12 for additional ecological information.
- 6.3. *Methods and materials for containment and cleaning up:*
Sweep up or vacuum up spillage and collect in suitable container for disposal.
- 6.4. *Reference to other sections:*
Refer to protective measures listed in Sections 8 and 13.

7. Handling and storage

- 7.1. *Precautions for safe handling:* Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electro-static charge. For precautions see section 2.2.
- 7.2. *Conditions for safe storage, including any incompatibilities:* Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- 7.3. *Specific end use(s):* Laboratory chemicals, for scientific research and development only.

8. Exposure Controls / Personal protection

- 8.1. *Control parameters:*
Components with workplace control parameters: Contains no substances with occupational exposure limit values.
- 8.2. *Exposure controls:*

Appropriate engineering controls: Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Use only under a chemical fume hood.

Personal protective equipment:

Eye/face protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

Body Protection: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

(a) Appearance:	Solid
(b) Odour:	No data
(c) Odour Threshold:	No data
(d) pH:	No data
(e) Melting point/freezing point:	No data.
(f) Initial boiling point and boiling range:	No data
(g) Flash point:	No data
(h) Evaporatoin rate:	No data
(i) Flammability (solid, gas):	No data
(j) Upper/lower flammability or explosive limits:	No data
(k) Vapour pressure:	No data
(l) Vapour density:	No data
(m) Relative density:	No data
(n) Water solubility:	No data
(o) Partition coefficient: n-octanol/water:	No data
(p) Auto-ignition:	No data
(q) Decomposition temperature:	No data
(r) Viscosity:	No data
(s) Explosive properties:	No data
(t) Oxidizing properties:	No data

9.2. Other safety information:

Formula	Br ₂ Ni
Molecular weight	218.5
CAS Number	13462-88-9

10. Stability and reactivity

- 10.1. *Reactivity* No data
- 10.2. *Chemical stability* Stable under recommended storage conditions.
- 10.3. *Possibility of hazardous reactions* No data
- 10.4. *Conditions to avoid*
- 10.5. *Incompatible material* Explosives, flammable/toxic gases, flammable liquid, flammable solid, spontaneously combustible substances, substances which are dangerous when wet, oxidizing substances, organic peroxides, poisons, radioactive materials.
- 10.6. *Hazardous decomposition products:*

Hazardous decomposition products formed under fire conditions: nitrogen oxides, hydrogen bromide.

Other decomposition products: No data

In the event of fire: See Section 5.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

.

Skin irritation/corrosion: No data available.

Eye damage/irritation: No data available.

Respiratory or skin sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity: Suspected of causing genetic defects.

Carcinogenicity: May cause cancer.

Reproductive toxicity: May damage fertility or the unborn child.

Specific target organ system toxicity - single exposure: No data available.

Specific target organ system toxicity - repeated exposure: Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard: No data available.

Additional information: To the best of our knowledge, the chemical, physical and toxicological properties of this substance have not been thoroughly investigated.

12. Ecological information

12.1. *Toxicity* No data available.

12.2. *Persistence and degradability* Very toxic to aquatic life with long lasting effects.

12.3. *Bioaccumulative potential* No data available

12.4. *Mobility in soil* No data available

12.5. *Results of PBT and vPvB assessment* No data available.

12.6. *Other adverse effects* No data available.

13. Disposal Considerations

13.1. Waste treatment methods

Product Arrange disposal as special waste, by licensed disposal company, in consultation with local waste disposal authority, in accordance with national and regional regulations.

Contaminated packaging Dispose of as unused product.

14. Transportation information

DOT (US), IMDG and IATA:

UN Number: UN3077 *Class:* 9 *Packing group:* III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (NOT INCLUDING WASTE) (Nickel(ii) bromide)

15. Regulatory information

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, or have known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

16. Other information

This MSDS is correct to the best of our knowledge at the date of publication but does not purport to be all inclusive and shall be used only as a guide. Combi-Blocks shall not be held liable for any injury or damage resulting from handling or from contact with the above product.