### SDS 3130 Cyanogen Bromide

### Date of Issue/re-issue: 10/01/2019

Expiry: 01/02/2024

### **1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

**Company Name ECP Limited** Address: 39 Woodside Ave, Northcote, Auckland, New Zealand Emergency Tel: 0800 243 622 or **Tel** +64 9 480 4386 **FAX** +64 9 480 4385 .....0800 CHE M CA LL Product Cyanogen Bromide Code 3130 CAS# HSNO# UN# DG Class/es Packing group # Tracking? Handlers Certificate? 506-68-3 | HSR004413 | 1889 6.1A, 9.1A 6.1A, 9.1A 6.1 (8) I Recommended use: Laboratory Investigations

# 2. Hazards identification

2.1 GHS Classification
Acute toxicity, Oral (Category B)
Acute toxicity, Inhalation (Category B)
Acute toxicity, Dermal (Category B)
Skin corrosion (Category A)
Aquatic toxicity (Acute or Chronic) (Category A)
2.2 GHS Label elements, including precautionary statements



Signal word **Danger** 

Hazard statement(s)

H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H330 Fatal if inhaled.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 Wear respiratory protection.

Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth.

Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.
Storage
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
Disposal
P501 Dispose of contents/container to an approved waste disposal plant.
2.3 Other hazards
None

# 3. Composition/information on ingredients

Substance/Mixture: Substance

3.1 Substances

Hazardous components

Component	Classification	Concentration		
Cyanogen bromide	mide			
	6.1 B; 8.2 A; 9.1 A; H300, H330, H310,	<=100%		
	H314, H410 M-Factor - Aquatic Acute: 1			

# 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.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Cough, shortness of breath, headache, nausea. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

4.3 Indication of any immediate medical attention and special treatment needed No data available

# 5. Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
Dry powder
5.2 Special hazards arising from the substance or mixture
No data available
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

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

## 7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Do not store near acids. Recommended storage temperature 2 - 8 °C. Hydrolyses readily.

7.3 Specific end use(s) No data available

## 8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

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.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

**Body Protection** 

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

#### 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties a) Appearance Form: crystalline Colour: colourless b) Odour No data available c) Odour Threshold No data available Hq (b No data available e) Melting point/freezing point Melting point/range: 50 - 53 °C - lit. f) Initial boiling point and boiling range 61 - 62 °C - lit. g) Flash point No data available h) Evaporation rate No data available i) Flammability (solid, gas) No data available j) Upper/lower flammability or explosive limits No data available k) Vapour pressure 133 hPa at 22.6 °C I) Vapour density No data available m) Relative density No data available n) Water solubility soluble o) Partition coefficient: n-octanol/water No data available p) Auto-ignition temperature No data available q) Decomposition temperature No data available r) Viscosity No data available

#### 10. Stability and reactivity

10.1 ReactivityContact with acids liberates very toxic gas.10.2 Chemical stabilityNo data available

10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
Heat
Sensitive to air and carbon dioxide.
10.5 Incompatible materials
Oxidizing agents, acids, Water
10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions
Carbon oxides, nitrogen oxides (NOx), hydrogen bromide gas, hydrogen cyanide.
Other decomposition products
No data available

### **11.** Toxicological information

11.1 Information on toxicological effects Acute toxicity No data available Inhalation: No data available Dermal: No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. **Reproductive toxicity** No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Potential health effects Inhalation May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Ingestion May be fatal if swallowed. Causes burns. Skin May be fatal if absorbed through skin. Causes skin burns. Eyes Causes eye burns. Signs and Symptoms of Exposure Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., cough, shortness of breath, headache, nausea.

Additional Information RTECS: Not available

### **12.** Ecological information

12.1 Toxicity
Toxicity to fish
LC50 - Lepomis macrochirus (Bluegill) - 0.24 mg/l - 96 h
12.2 Persistence and degradability
Biodegradability
Result: - Readily biodegradable.
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
Very toxic to aquatic life.

## **13.** Disposal considerations

13.1 Waste treatment methods Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging Dispose of as unused product.

# 14. Transport Information Table

		ADR/RID -	IMDG	IATA – DGR
		European	International Maritime	International Air Travel
		packaging	Dangerous Goods Code	Association – Dangerous
		certification		Goods Regulations
14.1	UN Number	1889	1889	1889
14.2	UN Proper Shipping	CYANOEGNE	CYANOGEN BROMIDE	Cyanogen bromide
	name	BROMIDE		
14.3	Transport Hazard	6.1 (8)	6.1 (8)	6.1 (8)
	Class			
14.4	Packaging group	1		1
14.5	Environmental	Yes	Yes	No
	Hazards			
14.6	Special precautions	No data available		
	for user			

# 15. Regulatory information

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

HSNO Approval Code: HSR004413

HSNO Group Standard Approval: Outside of Group Standard

Tracking Required: 6.1A, 9.1A

Approved Handler Cert.: 6.1A, 9.1A

### 16. Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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