

· EChem Supplies

VERSION	1.0
REVISION	2026-06-24
PRINT DATE	2026-06-24
CAS-NO.	159374-49-9

SECTION 1 Identification

1.1 PRODUCT IDENTIFIERS

Product name	<u>Ni_{0.25}Mn_{0.75}(OH)₂ Precursor Powder</u>
Product number	N.A.
Brand	EChem Supplies
CAS-No.	159374-49-9
EC-No.	<u>CLIBPCNM2575OH</u>
Index-No.	Not assigned

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE AND USES ADVISED AGAINST

Identified uses	Laboratory chemical · Research and development use
Uses advised against	Not for consumer use or non-laboratory applications.

1.3 DETAILS OF THE SUPPLIER

Company	EChem Supplies
Address	3487 Collins Ave, Unit A, San Pablo, CA 94806, USA
Telephone	+1 (559) 428-8906
E-mail	support@echemsupplies.com
Website	echemsupplies.com

1.4 EMERGENCY TELEPHONE

Emergency (CHEMTREC)	+1 800-424-9300 (USA) · +1 703-527-3887 (International)
Availability	24 hours / day · 7 days / week

SECTION 2 Hazards identification

2.1 CLASSIFICATION OF THE SUBSTANCE (OSHA HCS, 29 CFR 1910.1200)

- This substance is NOT classified as hazardous according to OSHA HCS (29 CFR 1910.1200) / GHS.

2.2 GHS LABEL ELEMENTS

Not a hazardous substance or mixture. No GHS pictogram, signal word, or hazard statement is required for this product.

HAZARD STATEMENTS

None.

PRECAUTIONARY STATEMENTS

Observe good industrial hygiene practices. Avoid dust formation; provide adequate ventilation.

2.3 HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)

None known.

SECTION 3 Composition / information on ingredients

3.1 SUBSTANCES

Chemical name	Nickel Manganese Hydroxide (Precursor)
Synonym	N/A
Formula	<u>Ni_{0.25}Mn_{0.75}(OH)₂</u>
Molecular weight	N/A
CAS-No.	159374-49-9
EC-No.	CLIBPCNM25750H

COMPONENT	CLASSIFICATION	CONCENTRATION
Ni _{0.25} Mn _{0.75} (OH) ₂	Not classified as hazardous	≤ 100 %

The substance contains no components classified as hazardous at reportable levels.

4.1 DESCRIPTION OF FIRST-AID MEASURES**GENERAL ADVICE**

No special measures required. Treat symptomatically. When in doubt, seek medical advice.

IF INHALED

Move the person to fresh air if dust has been inhaled. Seek medical advice if irritation persists.

IN CASE OF SKIN CONTACT

Wash off with soap and water.

IN CASE OF EYE CONTACT

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

IF SWALLOWED

Rinse mouth. Seek medical advice if discomfort occurs.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

No significant effects expected. Dust may cause mild mechanical irritation.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT

Treat symptomatically. No specific antidote required.

SECTION 5**Firefighting measures**

5.1 EXTINGUISHING MEDIA**SUITABLE EXTINGUISHING MEDIA**

Use extinguishing media appropriate to the surrounding fire (water spray, foam, dry chemical, or carbon dioxide).

UNSUITABLE EXTINGUISHING MEDIA

None known.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE

- No unusual fire or explosion hazard.
- Combustion may produce carbon and other oxides.

5.3 ADVICE FOR FIREFIGHTERS

Wear self-contained breathing apparatus and full protective gear in case of fire.

5.4 FURTHER INFORMATION

Standard procedures for chemical fires apply.

SECTION 6**Accidental release measures**

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

Avoid dust formation. Ensure adequate ventilation. Wear appropriate personal protective equipment (see Section 8).

6.2 ENVIRONMENTAL PRECAUTIONS

No special environmental precautions required. Prevent large quantities from entering drains or watercourses.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Sweep up or vacuum and collect in a closed container. Avoid generating airborne dust.

6.4 REFERENCE TO OTHER SECTIONS

For disposal see Section 13.

SECTION 7 Handling and storage

7.1 PRECAUTIONS FOR SAFE HANDLING

Observe good industrial hygiene. Avoid dust generation; provide adequate ventilation. Wash hands after handling.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES

- Keep container closed.
- Store in a dry, well-ventilated place.
- Keep away from strong oxidizers.

Recommended storage temperature Room temperature (15 – 30 °C)

Storage class (TRGS 510) 13

7.3 SPECIFIC END USE(S)

Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

SECTION 8 Exposure controls / personal protection

8.1 CONTROL PARAMETERS

COMPONENT	OSHA PEL	ACGIH TLV
Ni _{0.25} Mn _{0.75} (OH) ₂	Not established	Not established

8.2 EXPOSURE CONTROLS

APPROPRIATE ENGINEERING CONTROLS

Provide local exhaust ventilation where dust is generated. Provide eyewash stations.

EYE / FACE PROTECTION

Safety glasses with side-shields (EN 166 / NIOSH).

SKIN PROTECTION

Standard work gloves; nitrile gloves recommended for prolonged contact.

RESPIRATORY PROTECTION

Not required under normal use. Where dust limits may be exceeded, use an N95 / P2 dust respirator.

SECTION 9 **Physical and chemical properties****9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

PROPERTY	VALUE
Appearance	Powder
Color	Black
Odor	Odorless
pH	N/A
Melting point / freezing point	N/A
Initial boiling point	N/A
Flash point	N/A
Flammability (solid)	N/A
Vapor pressure	N/A
Density	N/A
Water solubility	Insoluble
Autoignition temperature	N/A
Explosive properties	N/A
Oxidizing properties	N/A

9.2 OTHER SAFETY INFORMATION

NONE

SECTION 10**Stability and reactivity**

10.1 REACTIVITY

Stable and non-reactive under normal conditions of use and storage.

10.2 CHEMICAL STABILITY

Stable.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

None known under normal processing.

10.4 CONDITIONS TO AVOID

- Dust accumulation and ignition sources.
- Contact with strong oxidizers.

10.5 INCOMPATIBLE MATERIALS

Strong oxidizing agents.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Carbon and other oxides upon combustion.

SECTION 11**Toxicological information**

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS**ACUTE TOXICITY**

Oral	No data available / not classified
Inhalation	No data available / not classified
Dermal	No data available / not classified

SKIN CORROSION / IRRITATION

Not classified. Dust may cause mild mechanical irritation.

SERIOUS EYE DAMAGE / EYE IRRITATION

Not classified. Dust may cause mild mechanical irritation.

CARCINOGENICITY

Not listed as a carcinogen by IARC, NTP, or OSHA.

11.2 ADDITIONAL INFORMATION

No adverse health effects are expected under normal handling.

SECTION 12**Ecological information**

12.1 Toxicity	Not classified as environmentally hazardous
12.2 Persistence and degradability	No data available
12.3 Bioaccumulative potential	Not expected to bioaccumulate
12.4 Mobility in soil	No data available
12.5 PBT / vPvB assessment	Not conducted — chemical safety assessment not required
12.6 Endocrine-disrupting properties	No data available

12.7 OTHER ADVERSE EFFECTS

None known.

SECTION 13**Disposal considerations**

13.1 WASTE TREATMENT METHODS**PRODUCT**

Dispose of in accordance with national and local regulations. When uncontaminated, this product is not expected to be a hazardous waste under RCRA.

CONTAMINATED PACKAGING

Empty containers may be recycled or disposed of as ordinary waste if uncontaminated.

SECTION 14**Transport information**

DOT (US)	Not regulated as dangerous goods
IMDG	Not regulated as dangerous goods
IATA	Not regulated as dangerous goods
UN number	None
Marine pollutant	No

SECTION 15**Regulatory information**

15.1 US FEDERAL REGULATIONS

- CERCLA reportable quantity: none
- SARA 302 / 304 / 313: not listed
- Clean Air Act: contains no hazardous air pollutants (HAP)
- TSCA: all components listed as active on the TSCA inventory

15.2 US STATE RIGHT-TO-KNOW

Massachusetts	N/A
Pennsylvania	N/A
California Prop 65	Not listed

SECTION 16**Other information**

16.1 FULL TEXT OF H-STATEMENTS

None — the substance is not classified as hazardous.

16.2 REVISION INFORMATION

Version	1.0
Revision date	2026-6-24
Prepared by	EChem Supplies — EHS

16.3 DISCLAIMER

The information herein is believed to be correct but is provided as a guideline only, based on current knowledge of the substance. It does not constitute a warranty of any property of the product. EChem Supplies shall not be held liable for any damage resulting from handling or contact with the above product. The user is responsible for safe use and for compliance with all applicable laws and regulations.