

## **MATERIAL SAFETY DATA SHEET**

### **NICKEL BORATE Hydrate 98%** **MSDS CAS: 51142-85-9**

#### **Section 1: Chemical Product and Company Identification**

##### **Section 1: Chemical Product**

**Product Name:** NICKEL BORATE Hydrate

**CAS#:** 51142-85-9

**Synonym:** Not available.

**Chemical Name:** Not available.

**Chemical Formula:** B<sub>2</sub>H<sub>4</sub>NiO<sub>6</sub>

**Brand:** OXFORD

##### **Details Of The Supplier Of The Safety Data Sheet :**

**Company identification:**      **OXFORD LAB FINE CHEM LLP**  
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,  
Navghar, Vasai (East). Palghar - 401 210.  
Mumbai, Maharashtra, INDIA.  
Tel: 91-250-2390989  
Tel/Fax: 91-250-2390032

#### **Section 2: Composition and Information on Ingredients**

##### **Composition:**

Name	CAS #	% by Weight
Nickel Borate Hydrate	51142-85-9	100

## Section 3: Hazards Identification

**EMERGENCYOVERVIEW:** May cause skin irritation and/or dermatitis

**Principle routes of exposure:** Skin

**Inhalation:** May cause irritation of respiratory tract

**Ingestion:** May be harmful if swallowed.

**Skin contact:** May cause allergic skin reaction

**Eye contact:** Avoid contact with eyes

**Statements of hazard:** MAYCAUSE ALLERGIC SKIN REACTION.

**Statement of Spill or Leak - ANSI Label:** Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

## Section 4: First Aid Measures

**General advice:**

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Inhalation:** Move to fresh air. Call a physician immediately.

**Skin contact:** Rinse immediately with plenty of water and seek medical advice

**Ingestion:** Do not induce vomiting without medical advice.

**Eye contact:**

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Protection of first-aiders:** No information available

## Section 5: Fire and Explosion Data

**Suitable extinguishing media:** Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam

## Section 5: Fire and Explosion Data (Continued)

**Specific hazards:** Burning produces irritant fumes.

**Unusual hazards:** None known

**Special protective equipment for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**Specific methods:** Water mist may be used to cool closed containers.

**Flash point:** Not determined Autoignition temperature: Not determined

**NFPA rating:**

NFPA Health: 1

NFPA Flammability: 1

NFPA Reactivity: 0

## Section 6: Accidental Release Measures

**Personal precautions:** Use personal protective equipment.

**Environmental precautions:** Prevent product from entering drains.

**Methods for cleaning up:** Sweep up and shovel into suitable containers for disposal.

## Section 7: Handling and Storage

**Storage:** ROOM TEMPERATURE

**Handling:** Use only in area provided with appropriate exhaust ventilation.

**Safe handling advice:** Wear personal protective equipment.

**Incompatible products:** Oxidising and spontaneously flammable products

## Section 8: Exposure Controls/Personal Protection

**Engineering measures:** Ensure adequate ventilation.

### **PERSONAL PROTECTIVE EQUIPMENT**

**Respiratory protection:** Breathing apparatus only if aerosol or dust is formed.

**Hand protection:** Pvc or other plastic material gloves

**Skin and body protection:** Usual safety precautions while handling the product will provide adequate protection against this potential effect.

**Eye protection:** Safety glasses with side-shields

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.

## Section 9: Physical and Chemical Properties

Physical state	: Powder
Molecular weight	: 180.34 g/mole
Melting point	: No data available at this time.
Boiling point	: No Data available at this time.
Density	: No data available
Vapor pressure	: No data available
Evaporation rate	: No data available
Vapor density	: No data available
Solubility (in water)	: No data available
Flash point	: Not determined
Autoignition temperature	: Not determined

## Section 10: Stability and Reactivity Data

**Stability:** Stable under recommended storage conditions.

**Polymerization:** None under normal processing.

### **Hazardous decomposition products:**

Thermal decomposition can lead to release of irritating gases and vapours such as carbon oxides.

**Materials to avoid:** Strong oxidising agents

**Conditions to avoid:** Exposure to air or moisture over prolonged periods.

## Section 11: Toxicological Information

### Product Information

#### Acute toxicity

**Components RTECS Number: Selected LD50s and LC50s**  
**NICKELBORATE Not Available Not Determined**

#### Chronic toxicity:

Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.

Local effects: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Specific effects: May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.

Primary irritation: No data is available on the product itself.

Carcinogenic effects: No data is available on the product itself.

Mutagenic effects: No data is available on the product itself.

Reproductive toxicity: No data is available on the product itself.

## Section 12: Ecological Information

Mobility: No data available

Bioaccumulation: No data available

Ecotoxicity effects: No data available

Aquatic toxicity: May cause long-term adverse effects in the aquatic environment.

**Components U.S. DOT- Appendix B –**

**Marine Pollutan**

**U.S. DOT- Appendix B -**

**Severe Marine Pollutants**

**United Kingdom - The Red**

**List:**

**NICKEL BORATE Not Listed Not Listed Not Listed**

**Components Germany VCI (WGK) World Health Organization (WHO) - Drinking Water**

## Section 12: Ecological Information (Continued)

### Ecotoxicity - Fish Species

#### Data

NICKEL BORATE Not Listed Not Listed Not Listed

### Components Ecotoxicity - Freshwater

#### Algae Data

Ecotoxicity - Microtox Data Ecotoxicity – Water Flea

#### Data

NICKEL BORATE Not Listed Not Listed Not Listed

Components EPA- ATSDR Priority List EPA- HPV Challenge

Program Chemical List

California - Priority Toxic

#### Pollutants

NICKEL BORATE Not Listed Not Listed Not Listed

Components California - Priority Toxic Pollutants California - Priority Toxic Pollutants

NICKEL BORATE Not Listed Not Listed

## Section 13: Disposal Considerations

### Waste from residues / unused products:

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

Contaminated packaging: Do not re-use empty containers

## Section 14: Transport Information

### Land transport (ADR-RID)

General information: Not regulated.

### Sea transport (IMDG) [English only]

General information: Not regulated.

## Section 14: Transport Information (Continued)

### Air transport (ICAO-IATA) [English only]

General information: Not regulated.

## Section 15: Other Regulatory Information

### International Inventories

#### U.S. regulations:

Components California Proposition 65

-

Massachusetts Right to

Know List:

New Jersey Right to

Know List:

Pennsylvania Right to Know

List:

Catalog Number: 216202

Canada DSL

Inventory List -

Product name: NICKEL BORATE

Not Listed

Illinois - Toxic Air

Contaminants

Connecticut - Hazardous Air

Pollutants

NICKEL BORATE Not Listed Not Listed Not Listed Not Listed

Components SARA 313 Emission Reporting/Toxic Release of Chemicals

CERCLA/SARA - Section

302 Extremely Haz

NTP: IARC:

NICKEL BORATE Not Listed Not Listed None None

**SARA 313 Notification:** The above is your notification as to the SARA313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

## Section 15: Other Regulatory Information (Continued)

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).

### State Notification:

The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released

## Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

### *Disclaimer:*

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The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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