



# SAFETY DATA SHEET

ProChemOnline.com



## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Nickel (II) Formate Dihydrate**

PRODUCT NUMBER: 2688

CAS NUMBER: 15694-70-9

### MANUFACTURER:

Prochem, Inc.  
826 Roosevelt Road  
Rockford, IL 61109

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IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Danger**

### Hazard Statements

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.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.

### Precautionary Phrases

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P284	Wear respiratory protection.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

### HMIS CLASSIFICATION:

Health: 1 Fire: 1 Reactivity Hazard: 1

### NFPA RATING:

Health: 1 Flammability: 1 Reactivity Hazard: 1

**EYE CONTACT:** May cause eye irritation.

**SKIN CONTACT:** May be harmful if absorbed through the skin. Causes skin irritation. May cause allergic skin reaction.

**INHALATION:** May be harmful if inhaled. Causes respiratory tract irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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

### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: Ni(HCO<sub>2</sub>)<sub>2</sub> •2H<sub>2</sub>O

Molecular Weight: 184.77

CHEMICAL NAME	CAS#	%
Nickel (II) Formate Dihydrate	15694-70-9	100

### SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with soap and plenty of water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

**INGESTION:** Seek immediate medical attention.

### SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Not applicable

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Not available

**EXTINGUISHING MEDIUM:** Use carbon dioxide, extinguishing powder, or water spray. Fight large fires with water spray or alcohol resistant foam.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Carbon oxides and toxic nickel oxide fumes

### SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid the formation of dust. Avoid breathing vapors, mist, gas, or dust.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spillage from entering drains or allowing to be released into the environment.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Sweep up and place in suitable container for proper disposal.

### SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Use with adequate ventilation.. Avoid formation of dusts and aerosols. Open and handle container with care.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Store away from oxidizing agents.

### SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

**EXPOSURE CONTROLS:** Contains no substances with occupational exposure limit values.

**EYE PROTECTION:** Wear chemical safety glasses or goggles and face shield.

**SKIN PROTECTION:** Wear nitrile or rubber gloves, and a complete suit protecting against chemicals.

**VENTILATION:** Provide local exhaust, preferably mechanical.

**RESPIRATOR:** Use an approved respirator.

**ADDITIONAL PROTECTION:** Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** Green powder

**ODOR:** No data available

**MOLECULAR WEIGHT:** 184.77

**BOILING POINT:** No data available

**MELTING POINT:** 130-140°C

**SPECIFIC GRAVITY:** 2.15 gm/ml

**SOLUBILITY:** Water

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** None

**INCOMPATIBILITY:** Oxidizing agents

**DECOMPOSITION PRODUCTS:** Carbon oxides and toxic nickel oxide fumes

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** Not available

**CARCINOGENIC EFFECTS:** May cause cancer. IARC states it's carcinogenic to humans. NTP states it's known to be carcinogen.

**MUTAGENIC EFFECTS:** Not available

**TETRATOGENIC EFFECTS:** Not available

**CHRONIC TOXICITY:** Not available

**RTECS:** No data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

## SECTION 12 ECOLOGICAL DATA

Do not allow product to reach ground water, watercourse, or sewage system even in small quantities. Avoid transfer to the environment. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. May cause long lasting and harmful effects to aquatic life. Very toxic for aquatic life.

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

## SECTION 14 TRANSPORTATION DATA

UN3077

Environmentally hazardous substances, solid, n.o.s.

(Nickel (II) formate dihydrate)

CLASS 9

PG III

Marine Pollutant: No

## SECTION 15 REGULATORY INFORMATION

**SARA 302/304:** Not Listed

**SARA 311/312:** Not Listed

## **SECTION 15 REGULATORY INFORMATION (Cont.)**

**SARA (TITLE 313):** Nickel (II) formate dihydrate

**CALIFORNIA PROP. 65:** Nickel (II) formate dihydrate

## **SECTION 16 OTHER INFORMATION**

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE PREPARED: 05/15

SDS DEPT.