

SAFETY DATA SHEET



Conforms to regulation (EC) no. EU 453/2010

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name: ND Protein Precipitation Kit - Reagent B

Product Number: EC-888B

1.2 Relevant Identified Uses of the Substance/Mixture and Uses Advised Against

Investigational research by professional users

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer

National Diagnostics
305 Patton Drive
Atlanta, GA 30036
(404) 699-2121
(800) 526-3867
info@nationaldiagnostics.com

1.4 Emergency Telephone Number

ChemTel Inc.

Contract number MIS8894340

1-800 255-3924 (United States, Canada, Puerto Rico & US Virgin Islands)

01-800-099-0731 (Mexico)

400-120-0751 (China)

000-800-100-4086 (India)

1-300-954-583 (Australia)

0-800-591-6042 (Brazil)

+1-813-255-3924 (All other regions)

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]

H315 - Skin Corrosion/Irritation (Category 2)

H319 - Serious Eye Damage/Eye Irritation (Category 2A)

H400 - Acute Hazards to the Aquatic Environment (Category 1)

2.2 Label Elements

GHS LABEL ELEMENTS AND CLASSIFICATION

GHS Label Elements



WARNING

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H400 - Very toxic to aquatic life.

P273 - Avoid release to the environment.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses if present and easy to do. Continue rinsing.

2.3 Other Hazards

None found.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Chemical Names/Description

Solution of Proprietary Salt

Component List

| Component | % Comp. | CAS # | EC # | 1278/2008 Classification |
|------------------|---------|-------|------|-----------------------------|
| Proprietary Salt | 15-20% | | | H315, H319, H400 |

SECTION 4 - FIRST AID MEASURES

4.1 Description of First Aid Measures

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Call a physician.

Skin

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eyes

Immediately flush eyes with plenty of water for at least fifteen minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Inhalation

Coughing, choking, with variable symptoms of headache, dizziness, and weakness.

Ingestion

Symptoms may include nausea, vomiting and diarrhea.

Skin

Symptoms include redness, itching, and pain.

Eyes

Redness and pain.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Unknown/not applicable

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishing media

Not applicable.

5.2 Special Hazards Arising from the Substance/Mixture

Hazardous Combustion Products

Not applicable.

Hazardous Decomposition Products

When heated to decomposition it emits toxic fumes.

Hazardous Polymerization

Will not occur under normal conditions of use (See Sections 10.4 & 10.5).

5.3 Advice for Firefighters

Not applicable.

5.4 Further Information

No data available.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

Wear appropriate protective equipment as specified in Section 8.

6.2 Environmental Precautions

Prevent discharge into the environment. Dike spills and stop leakage where practical. Do not allow material to enter drains.

6.3 Methods and Materials for Containment and Cleaning Up

Contain and clean up spill immediately, prevent from entering floor drains. Contain liquids using absorbents. Shovel all spill materials into disposal drum. Scrub spill area with detergent, flush with copious amounts of water.

6.4 References to Other Sections

For disposal information see Section 13. For protective clothing and equipment see Section 8.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

7.2 Conditions for Safe Storage (including any incompatibles)

Keep in a tightly closed container, stored in a cooled, dry, ventilated area.

Incompatibles

Alkali metals, chloral hydrate, acids tartaric acid, potassium chlorate, metallic salts, iodine. Reacts violently with bromide trifluoride, perchloric acid, and oxidants.

7.3 Specific End Uses

Investigational research by professional users

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PRECAUTIONS

8.1 Control Parameters

ACGIH Threshold Limit Value (TLV):

none listed

OSHA Permissible Exposure Limit (PEL):

none listed

8.2 Exposure Controls

Engineering Controls

A system of local and/or general exhaust is recommended to keep employee exposures low. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source.

Respiratory Protection

For conditions of use where exposure to the dust or mist is apparent, a full-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator.

Eye Protection

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Skin Protection

Wear protective gloves and clean body covering clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical & Chemical Properties

| | | | |
|--------------------------------|---------------------------|---|----------------|
| a. Appearance | Clear, colorless solution | b. Odor | None |
| c. Odor Threshold | N.A. | d. pH | Not available. |
| e. Melting/Freezing Point (°C) | 0 | f. Boiling point (°C) | 100 |
| g. Flash Point (°C) | N.A. | h. Evaporation Rate | Not available. |
| i. Flammability | N.A. | j. Upper/Lower Flammability or Explosive Limits | N.A. |
| k. Vapor Pressure | Not available. | l. Vapor Density (Air = 1) | Not available. |
| m. Relative Density | Not available. | n. Water Solubility | Soluble. |

| | | | |
|---|-----------------|---|--------------------|
| o. Partition Coefficient n-octanol/water | Mixture | p. Autoignition Temperature (°C) | N.A. |
| q. Decomposition Temperature (°C) | Not applicable. | r. Viscosity | No data available. |
| s. Explosive Properties | N.A. | t. Oxidizing Properties | Mild oxidizer |

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive under normal conditions of use. May react with strong reductants.

10.2 Chemical Stability

Stable under recommended conditions of use and storage.

10.3 Possibility of Hazardous Reactions

Will not occur under normal conditions of use (See Sections 10.4 & 10.5).

10.4 Conditions to Avoid

Light and incompatibles.

10.5 Incompatible Materials

Alkali metals, chloral hydrate, acids tartaric acid, potassium chlorate, metallic salts, iodine. Reacts violently with bromide trifluoride, perchloric acid, and oxidants.

10.6 Hazardous Decomposition Products

When heated to decomposition it emits toxic fumes.

SECTION 11 - TOXICOLOGICAL INFORMATION

Product LD50 Values

Oral Rat LD50 (mg/kg)

28933

Dermal Rabbit LD50 (mg/kg)

No Data

Component Cancer List Status

| | NTP Carcinogen | | IARC Category |
|------------------|----------------|-------------|---------------|
| | Known | Anticipated | |
| Proprietary Salt | No | No | None |

Potential Health Effects

Inhalation

Inhalation of dust from evaporated solution may lung irritation. May cause lung edema.

Ingestion

Causes irritation to the gastrointestinal tract.

Skin

Causes irritation to skin.

Eyes

Causes irritation.

Carcinogenicity

Not listed as a known or anticipated carcinogen by NTP or IARC.

Mutagenicity

No information found.

Reproductive Toxicity

Large repeated doses for treatment of asthma in pregnancy has resulted in fetal death, severe goiter and cretanoid appearance of the newborn.

Teratogenic Effects

No information found.

Routes of Entry

No information found.

Target Organ Statement

No information found.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity

| | Vertebrates | Invertebrates | Algae | Microorganisms |
|--|--------------------------------|-----------------------------------|--------------|----------------|
| Aquatic Toxicity (ppm unless otherwise noted) | LC50 (96hours, trout): 2800 | LC50 (48hrs, Daphnia):0.17mg/L | LOEC: 66mg/L | LOEC 5850 mg/L |
| | Birds | Arthropods | Plants | Microorganisms |
| Terrestrial Environment Toxicity (ppm unless otherwise noted) | No data | LC50 (24 hrs) 8900ug/g | No data | No data |

12.2 Persistence and Degradability

No data

12.3 Bioaccumulative Potential

No data

12.4 Mobility in Soil

No data

12.5 Results of PBT and vPvB Assessment

Not PBT or vPvB

12.6 Other Adverse Effects

None

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Offer surplus or non-recyclable product to licensed disposal company. Disposal is subject to user compliance with applicable law and product characteristics at time of disposal. Dispose of packaging as product.

SECTION 14 - TRANSPORT INFORMATION

| | ADR/RID | IATA | IMO | DOT |
|----------------------------|---|--|---|----------------|
| 14.1 UN Number | 3082 | 3082 | 3082 | N.A. |
| 14.2 Shipping Name | Environmentally hazardous substance, liquid, N.O.S. | Environmentally hazardous substance, liquid, N.O.S | Environmentally hazardous substance, liquid, N.O.S. | Not regulated. |
| 14.3 Hazard Class | 9 | 9 | 9 | N.A. |
| 14.4 Packing Group | III | III | III | N.A. |
| 14.5 Environmental Hazards | N.A. | N.A. | Not regulated | N.A. |
| 14.6 Special Precautions | N.A. | N.A. | N.A. | N.A. |

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance/Mixture

United States

TSCA Regulatory Statement

All intentional ingredients are listed on the TSCA Inventory.

SARA 311/312 Hazard Categories

| Component | Fire | Pressure | Reactivity | Acute | Chronic |
|------------------|------|----------|------------|-------|---------|
| Proprietary Salt | No | No | No | No | No |

Europe

EEC Regulatory

All intentional ingredients are listed on the European EINECS Inventory.

SECTION 16 - OTHER INFORMATION

Revisional Updates

8/8/2023 - Updated Section 14.5

4/26/2019 - Updated Section 1.4

5/29/2015 - Updated Sections 2.1 and 3.1

8/12/2013 - Released Version 1.0

NFPA Codes

Health 1 Flammability 0 Reactivity 0

Dangers

Proprietary Salt

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H400 - Very toxic to aquatic life.

MANUFACTURER DISCLAIMER: The information given herein is offered in good faith as accurate, but without guarantee. Conditions of the use and suitability of the product for particular uses are beyond our control. All risks of use of the product are therefore assumed by the user. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.