

Revision Date: 2010-12-01
Reason for Revision: Regulation (EC) No. 1272/2008 Compliance

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: Total Nitrogen Reagent

Application: Determination of Total Nitrogen in Water Samples

Company Information (USA):

Hanna Instruments, Inc.
584 Park East Dr, Woonsocket, Rhode Island, USA 02895

Technical Service Contact Information:

1-800-426-6287 (8:30AM - 5:00PM ET)
+1-401-766-4260 (8:30AM - 5:00PM ET)

USA Emergency Contact Information:

1-800-424-9300 (Chemtrec 24Hr. Emergency)

International Emergency Contact Information:

+1-703-527-3887 (Chemtrec 24Hr. Emergency)

E-mail Address:

tech@hannainst.com

SECTION 2: HAZARD IDENTIFICATION

Harmful if swallowed. Contact with acids liberates toxic gases. Risk of serious damage to eyes.

According to Regulation (EC) No. 1272/2008:

Classification: Acute Toxicity (Category 4)
Eye Damage (Category 1)

Signal Word: **Danger**

Pictograms:



Hazard Statements: H302: Harmful if swallowed.
H318: Causes serious eye damage.
EUH031: Contact with acids liberates toxic gas.

Precaution Statements: P280: Wear protective gloves/eye protection/face protection.

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

According to Directives 67/548/EEC and 1999/45/EC:

Symbol: Xn: Harmful

R-phrases: 22-31-41: Harmful if swallowed. Contact with acids liberates toxic gases. Risk of serious damage to eyes.

S-phrases: 26-39-46: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face protection. If swallowed, seek medical advice immediately and show this container or label.

SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component:	EC No:	CAS No:	Hazard Class:	Phrases:	Concentration:
Sodium metabisulfite	231-673-0	7681-57-4	Acute Tox. 4 Eye Dam. 1 Xn, Xi	H302, H318, EUH031 R: 22-31-41	-

SECTION 4: FIRST AID MEASURES

- After Inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.
- After Skin Contact:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.
- After Eye Contact:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
- After Swallowing:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.
- General Information:** Not available

SECTION 5: FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:**
Dry chemical powder.
- Special Risks:**
Emits toxic fumes under fire conditions.
- Special Protective Equipment:**
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
- Additional Information:**
NA

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Personal Precautions:**
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.
- Environmental Precautions:**
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.
- Additional Notes:**
None

SECTION 7: HANDLING AND STORAGE

- | | |
|---|----------------------|
| Handling: | Storage: |
| Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. | Keep tightly closed. |

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Type	Value	Source	Type	Value	Source
Sodium Metabisulfite					
TWA (8hr)	5 mg/m ³	Belgium	TWA (8hr)	5 mg/m ³	Canada (Ontario)
TWA (8hr)	5 mg/m ³	Canada (Quebec)	TWA (8hr)	5 mg/m ³	France
TWA (8hr)	5 mg/m ³	Greece	TWA (8hr)	5 mg/m ³	Portugal
TWA (8hr)	5 mg/m ³	Spain	TWA (8hr)	5 mg/m ³	UK

Engineering:

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment:

As appropriate to quantity handled.

Respiratory Protection:

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

Protective Gloves:

Compatible chemical-resistant gloves.

Eye Protection:

Chemical safety goggles.

Industrial Hygiene:

Wash thoroughly after handling.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Appearance:	White crystals	Odor:	Odorless	Density at 20 °C:	1.48 g/cm ³
Melting Point:	300 °C	Boiling Point:	NA	Solubility:	650 g/L
pH at 20 °C:	4.5	Explosion Limit:	NA	Flash Point:	NA
Thermal Decomp.:	NA				

SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided:

Air sensitive. Moisture sensitive.

Hazardous Polymerization:

Will not occur.

Further Information:

Not available

Hazardous Decomposition Products:

Sulfur oxides.

Substances to be Avoided:

Strong acids, Strong oxidizing agents.

SECTION 11: TOXICOLOGICAL INFORMATION**Product Toxicity**

ACUTE TOXICITY

LD50 (Oral, Rat): > 2000 mg/kg

LD50 (Skin, Rat): > 2000 mg/kg

LD50 (Intravenous, Rat): 115 mg/kg

LD50 (Parenteral, Mouse): 910 mg/kg

IRRITATION DATA

Skin, Rabbit: 500 mg

Potential Health Effects:**Inhalation:** May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.**Skin Contact:** May cause skin irritation. May be harmful if absorbed through the skin.**Eye Contact:** Causes severe eye irritation.**Ingestion:** Harmful if swallowed.**Component Toxicity****Acute Toxicity:**

Not Available

Chronic Toxicity:

Not Available

Additional Data:

Not Available

SECTION 12: ECOLOGICAL INFORMATION

Test Type: IC50 Algae

Species: Scenedesmus subspicatus

Time: 72 h

Value: 48 mg/L

Test Type: EC50 Daphnia

Species: Daphnia magna

Time: 24 h

Value: 89 mg/L

Test Type: LC50 Fish

Species: Onchorhynchus mykiss (Rainbow trout)

Time: 96 h

Value: 150.0 - 220.0 mg/L

SECTION 13: DISPOSAL CONSIDERATIONS**Waste Disposal:** Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.**SECTION 14: TRANSPORTATION INFORMATION****Land:**

Not subject to transport regulations.

Sea:

Not subject to transport regulations.

Air:

Not subject to transport regulations.

SECTION 15: REGULATORY INFORMATION

Complies with European Regulations (EC) No. 1907/2006 and No. 1272/2008.

Complies with European Council Directives 67/548/EEC and 1999/45/EC.

Complies with OSHA Regulation 29 CFR 1910.1200.

Complies with Canadian Regulation SOR/88-66

SECTION 16: OTHER INFORMATION***Text of phrases under Section 3***

R22: Harmful if swallowed.
R31: Contact with acids liberates toxic gas.
R41: Risk of serious damage to eyes.
H302: Harmful if swallowed.
H318: Causes serious eye damage.
EUH031: Contact with acids liberates toxic gas.

Revision Information

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Supersedes edition of: 2009-06-10
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Compliance

Legend

NA: Not Applicable
ND: Not Determined

**THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR
KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE
APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF
THE PROPERTIES OF THE PRODUCT.**