



**SIGMA-ALDRICH**

## Material Safety Data Sheet

Date Printed: 04/12/2006  
Date Updated: 02/04/2006  
Version 1.30

### Section 1 - Product and Company Information

**Product Name** Inosine 5'-monophosphate disodium salt, Sigma Grade; From Muscle  
**Product Number** I4500  
**Brand** Sigma Chemical

**Company** Sigma-Aldrich  
**Street Address** 3050 Spruce Street  
**City, State, Zip, Country** SAINT LOUIS, MO 63103 US  
**Technical Phone:** 800-325-5832  
**Fax:** 800-325-5052  
**Emergency Phone:** 314-776-6555

### Section 2 - Composition/Information on Ingredient

<u>Substance Name</u>	<u>CAS #</u>	<u>SARA 313</u>	<u>EC no</u>	<u>Annex I Index Number</u>
INOSINE 5'-MONOPHOSPHATE SODIUM SIGMAGRADE FROM MUSCLE	None	No		

**Formula** C10H13N4O8P  
**Synonyms**

### Section 3 - Hazards Identification

#### Emergency Overview

Toxic.  
Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.  
Target organ(s): Eyes. Nerves.

**HMIS Rating**  
Health: 2\* Flammability: 0 Reactivity: 0

**NFPA Rating**  
Health: 2 Flammability: 0 Reactivity: 0

\*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

### Section 4 - First Aid Measures

#### Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

#### Inhalation Exposure

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

#### Dermal Exposure

In case of contact, immediately wash skin with soap and copious amounts of water.

#### Eye Exposure

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

### Section 5 - Fire Fighting Measures

**Autoignition Temp:** N/A

#### Extinguishing Media

**Suitable**

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

#### Firefighting

##### Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

##### Specific Hazard(s)

Emits toxic fumes under fire conditions.

### Section 6 - Accidental Release Measures

#### Procedure(s) of Personal Precaution(s)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

#### Methods for Cleaning Up

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.

### Section 8 - Exposure Controls / PPE

#### Engineering Controls

Safety shower and eye bath. Mechanical exhaust required.

#### Personal Protective Equipment

##### Other

Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

#### General Hygiene Measures

Wash thoroughly after handling. Wash contaminated clothing before reuse.

### Section 9 - Physical/Chemical Properties

**Molecular Weight:** 348.2 AMU

pH N/A  
BP/BP Range N/A  
MP/MP Range N/A  
Freezing Point N/A  
Vapor Pressure N/A  
Vapor Density N/A  
Saturated Vapor Conc. N/A  
SG/Density N/A  
Bulk Density N/A  
Odor Threshold N/A  
Volatile% N/A  
VOC Content N/A  
Water Content N/A  
Solvent Content N/A  
Evaporation Rate N/A

Sigma Chemical - I4500  
Page 2

Sigma-Aldrich Corporation  
www.sigma-aldrich.com

RECEIVED

APR 25 2006

Safety and Environmental  
Health

Viscosity N/A  
Partition Coefficient N/A  
Decomposition Temp. N/A  
Flash Point °F N/A  
Flash Point °C N/A

Explosion Limits N/A

Flammability N/A  
Autoignition Temp N/A  
Solubility N/A

N/A = not available

## Section 10 - Stability and Reactivity

**Stability**  
Stable  
Stable.  
**Materials to Avoid**  
Strong oxidizing agents.

**Hazardous Decomposition Products**  
**Hazardous Decomposition Products**  
Carbon monoxide, Carbon dioxide, Nitrogen oxides, Phosphorous oxides.

**Hazardous Polymerization**  
**Hazardous Polymerization**  
Will not occur.

## Section 11 - Toxicological Information

**Route of Exposure**  
**Inhalation**  
Material is Irritating to mucous membranes and upper respiratory tract.  
**Multiple Routes**  
Harmful if swallowed, inhaled, or absorbed through skin. Causes eye and skin irritation.

**Target Organ(s) or System(s)**  
Eyes, Kidneys. Damage to the eyes. Damage to the liver. Damage to the heart. Damage to the kidneys, Nerves. Liver.

**Signs and Symptoms of Exposure**  
Exposure can cause: CNS depression. Gastrointestinal disturbances. Narcotic effect. Damage to the eyes. Damage to the liver. Damage to the heart. Damage to the kidneys. May cause convulsions.

**Conditions Aggravated by Exposure**  
The toxicological properties have not been thoroughly investigated.

**RTECS Number:** N/A

## Section 12 - Ecological Information

No data available.

## Section 13 - Disposal Considerations

**Appropriate Method of Disposal of Substance or Preparation**  
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

## Section 14 - Transport Information

### DOT

**Proper Shipping Name:** None  
**Non-Hazardous for Transport:** This substance is considered to be non-hazardous for transport.

### IATA

**Non-Hazardous for Air Transport:** Non-hazardous for air transport.

## Section 15 - Regulatory Information

### EU Additional Classification

**Symbol of Danger:** T

**Indication of Danger**

Toxic.

**Risk Statements** R: 23/24/25 36/37/38

Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

**Safety Statements** S: 22 26 36 45

Do not breathe dust. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### US Classification and Label Text

**Indication of Danger**

Toxic.

**Risk Statements**

Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

**Safety Statements**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. Do not breathe dust.

**US Statements**

**Target organ(s):** Eyes. Nerves.

### United States Regulatory Information

**SARA Listed:** No

**Notes:** This product is subject to SARA section 313 reporting requirements.

### Canada Regulatory Information

**WHMIS Classification**

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

**DSL:** No

**NDSL:** No

## Section 16 - Other Information

### Disclaimer

For R&D use only. Not for drug, household or other uses.

### Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2006 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.