

Material Safety Data Sheet

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Version 1.30

Section 1 - Product and Company Information

S-(4-Nitrobenzyl)-6-thioinosine, minimum 98%

CAS#

38048-32-7

Product Number Brand

Sigma Chemical

Company

Fax:

Sigma-Aldrich

Street Address City, State, Zip, Country 3050 Spruce Street SAINT LOUIS, MO 63103 US

Technical Phone:

800-325-5832 800-325-5052

Emergency Phone:

314-776-6555

Section 2 - Composition/Information on Ingredient

Substance Name

SARA 313

EC no 253-753-4 Annex I Index Number

S-(4-NITROBENZYL)-6-THIOINOSINE (NBTI)POTENT ADENOSINE UPTAKE INHIBITOR

Formula

C17H17N5O6S

Synonyms

Nitrobenzylthioinosine, 6-(p-Nitrobenzylthio)inosine, 6-(((4-Nitrophenyl)methyl)thio)-9-beta-D-

ribofuranosyl-9H-purine

Section 3 - Hazards Identification

Emergency Overview

Caution: Avoid contact and inhalation.

HMIS Rating

Health: 1

Flammability: 0

Reactivity: 0

NFPA Bating

Flammability: 0

Reactivity: 0

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 breathing becomes difficult, call a physician.

Dermal Exposure

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

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.

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

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 7 - Handling and Storage

User Exposure

Avoid inhalation. Avoid contact with eyes, skin, and clothing Avoid prolonged or repeated exposure.

Storage

Suitable

Keep tightly closed. Store at 2-8°C

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.

Hand

Protective gloves.

Chemical safety goggles

General Hygiene Measures

Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance

Physical State Solid

Color White

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Molecular Weight 419.42 AMU N/A N/A **BP/BP Range** MP/MP Range 187 - 190 °C 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 N/A Viscosity **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, Sulfur oxides

Hazardous Polymerization

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact

May cause skin irritation.

Skin Absorption

May be harmful if absorbed through the skin.

Eye Contact

May cause eye irritation.

Inhalation

May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

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Sigma-Aldrich Corporation www.sigma-aldrich.com Ingestion

May be harmful if swallowed.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Conditions Aggravated by Exposure

Potent purine transport inhibitor.

RTECS Number: UO9025000

Chronic Exposure - Mutagen

 Species
 Dose
 Cell Type
 Mutation test

 Rat
 4200 NMOL/L
 liver
 DNA inhibition

Rat 8 UMOL/L liver Other mutation test systems

Section 12 - Ecological Information

No data available

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.

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 nonhazardous for transport.

IATA

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

Section 15 - Regulatory Information

US Classification and Label Text

US Statements

Caution: Avoid contact and inhalation.

United States Regulatory Information

SARA Listed: No

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.

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The above information isbelieved 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. Sigm#Aldrich Inc., shall not be held liable for

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any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for addition terms and conditions of sale. Copyright2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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