#### SIGMA-ALDRICH

#### MATERIAL SAFETY DATA SHEET

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# Section 1 - Product and Company Information

Product Name 3-AMINOPHTHALHYDRAZIDE

Product Number 09253 Brand FLUKA

Company Sigma-Aldrich Street Address 3050 Spruce Street

SAINT LOUIS MO 63103 US City, State, Zip, Country

Technical Phone: 314 771 5765

414 273 3850 Ext. 5996 Emergency Phone:

800 325 5052 Fax:

# Section 2 - Composition/Information on Ingredient

SARA 313 Substance Name CAS #

3-AMINOPHTHALHYDRAZIDE 521-31-3 No

Formula C8H7N3O2

Synonyms 5-Amino-2,3-dihydro-1,4-phthalazinedione \*

3-Aminophthalhydrazide \* 3-Aminophthalic acid

hydrazide \* Luminol

TH8890060 RTECS Number:

# Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Irritant.

Irritating to eyes, respiratory system and skin.

#### HMIS RATING

HEALTH: 2

FLAMMABILITY: 0 REACTIVITY: 0

# NFPA RATING

HEALTH: 2

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 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

# FLASH POINT

N/A

#### AUTOIGNITION TEMP

N/A

#### FLAMMABILITY

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 7 - Handling and Storage

#### HANDLING

User Exposure: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

# STORAGE

Suitable: Keep tightly closed.

#### Section 8 - Exposure Controls / PPE

#### ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

#### PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Government approved respirator.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

# GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

#### Section 9 - Physical/Chemical Properties

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Physical State: Solid Appearance Color: Slightly yellow

Form: Powder

Value At Temperature or Pressure Property

177.16 AMU Molecular Weight

N/AНq BP/BP Range N/AMP/MP Range 300 °C Freezing Point N/AVapor Pressure N/AVapor Density N/ASaturated Vapor Conc. N/A SG/Density N/ABulk Density N/AOdor Threshold N/AVolatile% N/AVOC Content N/AWater Content N/ASolvent Content N/AEvaporation Rate N/AViscosity N/ASurface Tension N/APartition Coefficient N/A Decomposition Temp. N/A Flash Point N/AExplosion Limits N/AFlammability N/AAutoignition Temp N/ARefractive Index N/AOptical Rotation N/AN/A Miscellaneous Data

N/A = not available

Section 10 - Stability and Reactivity

#### STABILITY

Solubility

Stable: Stable.

Materials to Avoid: Strong oxidizing agents, Strong acids, Strong

bases, Strong reducing agents.

# HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides.

#### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

N/A

Section 11 - Toxicological Information

#### ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes eye irritation.

Inhalation: Material is irritating to mucous membranes and upper

respiratory tract. May be harmful if inhaled.

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.

#### CHRONIC EXPOSURE - MUTAGEN

Species: Hamster Dose: 500 UMOL/L Cell Type: lung

Mutation test: Sister chromatid exchange

Section 12 - Ecological Information

## Section 13 - Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION
Contact a licensed professional waste disposal service to dispose
of this material. 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: Xi

Indication of Danger: Irritant.

R: 36/37/38

Risk Statements: Irritating to eyes, respiratory system and skin.

S: 26 36/37

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves.

#### US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Irritant.

Risk Statements: 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 and gloves.

#### UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

TSCA INVENTORY ITEM: Yes

## 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: Yes 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 2004 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.