#### SIGMA-ALDRICH

#### MATERIAL SAFETY DATA SHEET

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Version 1.3

## Section 1 - Product and Company Information

Product Name IODOACETAMIDE SIGMAULTRA

Product Number I1149
Brand SIGMA

Company Sigma-Aldrich Street Address 3050 Spruce Street City, State, Zip, Country SAINT LOUIS MO 63103 US

Technical Phone: 314 771 5765

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# Section 2 - Composition/Information on Ingredient

Substance Name CAS # SARA 313 IODOACETAMIDE CRYSTALLINE 144-48-9 No

Formula C2H4INO

2-Iodoacetamide \* Monoiodoacetamide \* Surauto \*

USAF D-1

RTECS Number: AC4200000

# Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Toxic

Toxic if swallowed. May cause sensitization by inhalation and skin contact.

#### HMIS RATING

HEALTH: 3\*

FLAMMABILITY: 0 REACTIVITY: 1

## NFPA RATING

HEALTH: 3

FLAMMABILITY: 0
REACTIVITY: 1

\*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 immediately.

## 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 skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

#### EYE EXPOSURE

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

#### 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 TO BE FOLLOWED IN CASE OF LEAK OR SPILL Evacuate area.

## PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, 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. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

#### STORAGE

Suitable: Keep tightly closed. Store with desiccant. Store at 2-8°C

## SPECIAL REQUIREMENTS

Light sensitive.

## Section 8 - Exposure Controls / PPE

## ENGINEERING CONTROLS

Use only in a chemical fume hood. Safety shower and eye bath.

#### PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Government approved respirator. Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

#### GENERAL HYGIENE MEASURES

Wash contaminated clothing before reuse. Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance	Physical State: Solid
	Color: Slightly yellow
	Form: Fine crystals

Value Property At Temperature or Pressure

184.96 AMU Molecular Weight N/AНq BP/BP Range N/AMP/MP Range 92 °C Freezing Point N/AVapor Pressure N/A Vapor Density N/ASaturated Vapor Conc. N/A SG/Density N/ABulk Density N/AOdor Threshold N/AVolatile% N/AVOC Content N/A Water Content N/AN/ASolvent Content N/A

Evaporation Rate Viscosity N/ASurface Tension N/APartition Coefficient N/A Decomposition Temp. N/AFlash Point N/AExplosion Limits N/AFlammability N/A Autoignition Temp N/A Refractive Index N/A Optical Rotation N/A

Solubility Solubility in Water: 0.1 g/ml H20

N/A

## N/A = not available

Miscellaneous Data

## Section 10 - Stability and Reactivity

### STABILITY

Conditions to Avoid: Light.

Materials to Avoid: Strong reducing agents, Strong oxidizing agents, Strong bases, Strong acids.

#### HAZARDOUS DECOMPOSITION PRODUCTS

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

#### HAZARDOUS POLYMERIZATION

## 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.

Ingestion: Toxic if swallowed.

#### **SENSITIZATION**

Sensitization: May cause allergic reaction.

#### SIGNS AND SYMPTOMS OF EXPOSURE

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

#### TOXICITY DATA

Oral Mouse 74 mg/kg LD50

Intraperitoneal Mouse 50 MG/KG LD50

Intravenous Mouse 56 MG/KG LD50

# CHRONIC EXPOSURE - CARCINOGEN

Species: Mouse

Route of Application: Skin

Dose: 1480 MG/KG Exposure Time: 20W

Frequency: I

Result: Skin and Appendages: Other: Tumors.

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria.

Tumorigenic: Tumors at site or application.

## CHRONIC EXPOSURE - MUTAGEN

Species: Human
Dose: 10 UMOL/L

Cell Type: lymphocyte

Mutation test: DNA inhibition

# 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. 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: Toxic solids, organic, n.o.s.

UN#: 2811 Class: 6.1

Packing Group: Packing Group III Hazard Label: Toxic substances.

PIH: Not PIH

#### IATA

Proper Shipping Name: Toxic solid, organic, n.o.s.

IATA UN Number: 2811 Hazard Class: 6.1 Packing Group: III

## Section 15 - Regulatory Information

#### EU ADDITIONAL CLASSIFICATION

Symbol of Danger: T

Indication of Danger: Toxic.

R: 25-42/43

Risk Statements: Toxic if swallowed. May cause sensitization by inhalation and skin contact.

S: 22-36/37-45

Safety Statements: Do not breathe dust. Wear suitable protective clothing and gloves. 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 if swallowed. May cause sensitization by inhalation and skin contact.

Safety Statements: Do not breathe dust. After contact with skin, wash immediately with plenty of soap-suds. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

# 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

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