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# IODINE PENTOXIDE CAS NO 12029-98-0

# MATERIAL SAFETY DATA SHEET SDS/MSDS

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1 Product identifiers

Product name : Iodine Pentoxide

CAS-No. : 12029-98-0

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Industrial & for professional use only.

## **1.3** Details of the supplier of the safety data sheet

Company	:	Central Drug House (P) Ltd 7/28 Vardaan House New Delhi -110002 INDIA
Telephone Email	:	+91 11 49404040 care@cdhfinechemical.com

## **1.4 Emergency telephone number** Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

# Classification according to Regulation (EC) No 1272/2008 Oxidizing solids (Category 2), H272 Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 Label elements

# Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal word



Hazard statement(s) H272 H314

May intensify fire; oxidizer. Causes severe skin burns and eye damage.

Precautionary statement(s) P220

Keep/Store away from clothing/ combustible materials.

P280	Wear protective gloves/ protective clothing/ 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.
P310	Immediately call a POISON CENTER/doctor.
Supplemental Hazard Statements	none

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Synonyms	:	lodic anhydride Diiodine pentoxide
Formula		$I_2O_5$
Molecular weight	:	333.81 g/mol
CAS-No.	:	12029-98-0
EC-No.	:	234-740-2

#### Hazardous ingredients according to Regulation (EC) No 1272/2008 Component Classification

## **Diiodine pentaoxide**

Diloume pentaoxide				
CAS-No.	12029-98-0	Ox. Sol. 2; Skin Corr. 1B; Eye	<= 100 %	
EC-No.	234-740-2	Dam. 1; H272, H314, H318		

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

## In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

## If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### **4.3 Indication of any immediate medical attention and special treatment needed** No data available

Concentration

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture Hydrogen iodide
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- **5.4 Further information** Use water spray to cool unopened containers.

## **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
- 6.2 Environmental precautions Do not let product enter drains.
- **6.3** Methods and materials for containment and cleaning up Sweep up and shovel.\'20 Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections

For disposal see section 13.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.Keep away from heat and sources of ignition. For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Oxidizing hazardous materials

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# **SECTION 8: Exposure controls/personal protection**

- 8.1 Control parameters
- 8.2 Exposure controls

## Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Personal protective equipment

## **Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

## **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Control of environmental exposure

Do not let product enter drains.

## **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

a) Appearance       Fondury No data available         b) Odour       No data available         c) Odour Threshold       No data available         d) pH       No data available         e) Melting point/freezing point       No data available         g) Flash point       No data available         h) Evaporation rate       No data available         i) Flammability (solid, gas)       No data available         j) Upper/lower       No data available         flammability or       explosive limits         k) Vapour pressure       No data available         j) Vapour density       No data available         j) Vapour density       No data available         j) Vapour density       No data available         j) Vapour gressure       No data available         j) Vapour density       No data available         j) Vapour pressure       No data available         j) Vapour density       No data available         o) Partition coefficient: n- octanol/water       No data available         o) Decomposition       No data available         q) Decomposition <td< th=""><th>a)</th><th>Appearance</th><th>Form: powder</th></td<>	a)	Appearance	Form: powder
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9.2

No data available

## **SECTION 10: Stability and reactivity**

- 10.1 Reactivity No data available
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** No data available
- **10.5** Incompatible materials Strong oxidizing agentsStrong reducing agents, Powdered metals, Strong acids
- **10.6** Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Hydrogen iodide Other decomposition products - No data available In the event of fire: see section 5

## **SECTION 11: Toxicological information**

11.1 Information on toxicological effects

## Acute toxicity

No data availableDiiodine pentaoxide

Skin corrosion/irritation No data available(Diiodine pentaoxide)

**Serious eye damage/eye irritation** No data available(Diiodine pentaoxide)

**Respiratory or skin sensitisation** No data available(Diiodine pentaoxide)

## Germ cell mutagenicity

No data available(Diiodine pentaoxide)

## Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

## **Reproductive toxicity**

No data available(Diiodine pentaoxide)

**Specific target organ toxicity - single exposure** No data available(Diiodine pentaoxide)

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available(Diiodine pentaoxide)

## **Additional Information**

RTECS: Not available

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea(Diiodine pentaoxide)

# **SECTION 12: Ecological information**

- 12.1 Toxicity No data available
- 12.2 Persistence and degradability No data available
- **12.3 Bioaccumulative potential** No data available
- **12.4 Mobility in soil** No data available(Diiodine pentaoxide)
- 12.5 Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
- **12.6 Other adverse effects** No data available

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

#### **SECTION 14: Transport information**

14.1	<b>UN number</b> ADR/RID: 3085		IMDG: 3085	IATA: 3085
14.2	UN proper shipping nameADR/RID:OXIDIZING SOLID, CORROSIVE, N.O.S. (Diiodine pentaoxide)IMDG:OXIDIZING SOLID, CORROSIVE, N.O.S. (Diiodine pentaoxide)IATA:Oxidizing solid, corrosive, n.o.s. (Diiodine pentaoxide)			
14.3	Transport hazard class(es) ADR/RID: 5.1 (8)		IMDG: 5.1 (8)	IATA: 5.1 (8)
14.4	<b>Packaging group</b> ADR/RID: II		IMDG: II	ΙΑΤΑ: ΙΙ
14.5	<b>Environmental hazards</b> ADR/RID: no		IMDG Marine pollutant: no	IATA: no
14.6	<b>Special pr</b> No data av	ecautions for user ailable		

## **SECTION 15: Regulatory information**

**15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

# 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

## **SECTION 16: Other information**

## Full text of H-Statements referred to under sections 2 and 3.

H272 May intensify fire; oxidizer.H314 Causes severe skin burns and eye damage.H318 Causes serious eye damage.

## Further information

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. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.