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Arsenic Trioxide CAS No 1327-53-3

MATERIAL SAFETY DATA SHEET SDS/MSDS

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

| 1.1 | Product identifiers Product name | : | Arsenic Trioxide |
|--|---|-----|--|
| | CAS-No. | : | 1327-53-3 |
| 1.2 Relevant identified uses of the substance or mixture and uses advi | | | e substance or mixture and uses advised against |
| | Identified uses | : | Laboratory chemicals, Industrial & for professional use only. |
| 1.3 | Details of the supplier of t Company | | afety data sheet Central Drug House (P) Ltd 7/28 Vardaan House Ansari Road Daryaganj New Delhi-110002 INDIA |
| | Telephone Email | : | +91 11 49404040 care@cdhfinechemical.com_ |
| | Emergeney telenhene ny | mha | |

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

> Classification according to Regulation (EC) No 1272/2008 Acute toxicity, Oral (Category 2), H300 Skin corrosion (Category 1B), H314 Carcinogenicity (Category 1A), H350 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

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

Danger

Hazard statement(s) H300 H314

Fatal if swallowed. Causes severe skin burns and eye damage.

| May cause cancer. Very toxic to aquatic life with long lasting effects. |
|---|
| |
| Obtain special instructions before use. |
| Wear protective gloves/ protective clothing/ eye protection/ face protection. |
| IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. |
| IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. |
| IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed |
| or concerned: Get medical advice/ attention. |
| none |
| |

Restricted to professional users.

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 | : | Arsenous acid Arsenic trioxide |
|---|----|---|
| Formula Molecular weight CAS-No. EC-No. Index-No. | :: | As2O3 197.84 g/mol 1327-53-3 215-481-4 033-003-00-0 |

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

Arsenic trioxide Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

| CAS-No. | 1327-53-3 | Acute Tox. 2; Skin Corr. 1B; | <= 100 % |
|-----------|--------------|------------------------------|----------|
| EC-No. | 215-481-4 | Carc. 1A; Aquatic Acute 1; | |
| Index-No. | 033-003-00-0 | Aquatic Chronic 1; H300, | |
| | | H314, H350, H400, H410 | |
| | | M-Factor - Aquatic Acute: 10 | |

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.

lf 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. Take victim immediately to hospital. Consult a physician.

Concentration

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

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 Arsenic oxides
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear respiratory protection. 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 Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

- 6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. 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 contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure obtain special instructions before use.
 Provide appropriate exhaust ventilation at places where dust is formed.
 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): Non-combustible, acute toxic Cat. 1 and 2 / very toxic 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

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

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

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| a) | Appearance | Form: powder Colour: white |
|----|--|-------------------------------|
| b) | Odour | odourless |
| c) | Odour Threshold | No data available |
| d) | рН | No data available |
| e) | Melting point/freezing point | Melting point/range: 313 °C |
| f) | Initial boiling point and boiling range | 460 °C at 1,013 hPa |
| g) | Flash point | No data available |
| h) | Evaporation rate | No data available |
| i) | Flammability (solid, gas) | No data available |
| j) | Upper/lower flammability or explosive limits | No data available |
| k) | Vapour pressure | 0.000001 mmHg at 66 °C |
| I) | Vapour density | No data available |
| m) | Relative density | 3.738 g/cm3 |
| n) | Water solubility | No data available |
| o) | Partition coefficient: n- octanol/water | log Pow: 5 |

| p) | Auto-ignition | No data available |
|----|---------------|-------------------|
| | temperature | |

- q) Decomposition No data available temperature
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available

9.2 Other safety information 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 Heat
- **10.5** Incompatible materials Oxidizing agents, Metals

10.6 Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Arsenic oxides 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 LD50 Oral - Rat - 14.6 mg/kg(Arsenic trioxide)

Skin corrosion/irritation No data available(Arsenic trioxide)

Serious eye damage/eye irritation No data available(Arsenic trioxide)

Respiratory or skin sensitisation No data available(Arsenic trioxide)

Germ cell mutagenicity

No data available(Arsenic trioxide)

Carcinogenicity

This is or contains a component that has been reported to be carcinogenic classification.(Arsenic trioxide) Human carcinogen.(Arsenic trioxide)

(Arsenic trioxide)

IARC: 1 - Group 1: Carcinogenic to humans (Arsenic trioxide)

1 - Group 1: Carcinogenic to humans (Arsenic trioxide)

Reproductive toxicity

No data available(Arsenic trioxide)

Specific target organ toxicity - single exposure No data available(Arsenic trioxide)

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available(Arsenic trioxide)

Additional Information RTECS: CG3325000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated., Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache(Arsenic trioxide)

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 8.23 mg/l - 24 h(Arsenic trioxide) other aquatic invertebrates

12.2 Persistence and degradability No data available

NO data avallable

 12.3 Bioaccumulative potential
 Lepomis cyanellus(Arsenic trioxide)

Bioconcentration factor (BCF): 236

12.4 Mobility in soil No data available(Arsenic trioxide)

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

Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

| 14.1 | UN number ADR/RID: 1561 | IMDG: 1561 | IATA: 1561 |
|------|---|---------------------------|------------|
| 14.2 | UN proper shipping nameADR/RID:ARSENIC TRIOXIIMDG:ARSENIC TRIOXIIATA:Arsenic trioxide | | |
| 14.3 | Transport hazard class(es) ADR/RID: 6.1 | IMDG: 6.1 | IATA: 6.1 |
| 14.4 | Packaging group ADR/RID: II | IMDG: II | IATA: II |
| 14.5 | Environmental hazards ADR/RID: no | IMDG Marine pollutant: no | IATA: no |
| 14.6 | Special precautions for user No data available | | |

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. **Authorisations and/or restrictions on use**

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.

- H300 Fatal if swallowed.
- H314 Causes severe skin burns and eye damage.
- H350 May cause cancer.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

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.