

Material Safety Data Sheet

Antimony(III)oxide

Revision Date: 03-01/2007

Date Issued: 03-01/2007

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY / UNDERTAKING

Product name Antimony(III)oxide, Nanopowder
Product code NO-0010-HP
Supplier IoLiTec
Ionic Liquids Technologies GmbH & Co KG
Ferdinand-Porsche-Straße 5/1
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Germany
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2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name Antimony(III)oxide, 99.9+%
CAS No. 1309-64-4
Empirical Formula Sb_2O_3
Molecular weight 291.5 amu

3 HAZARDS IDENTIFICATION

Xn Harmful

4 FIRST AID MEASURES

General Contaminated clothing should be removed and washed before being reused.

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Inhalation	Move the exposed person to fresh air at once. If respiratory problems, artificial respiration/oxygen.
Ingestion	Immediately rinse mouth and provide fresh air. Do not induce vomiting. Get medical attention immediately.
Skin	Wash the skin immediately with soap and water.
Eyes	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

5 FIRE FIGHTING MEASURES

Extinguishing media	Water spray, carbon dioxide, dry chemical powder or appropriate foam.
Special fire fighting procedures	No special procedures required.
Unusual fire & explosion hazards	Emission of toxic fumes
Protective measures in fire	Wear self-contained breathing apparatus as combustion may produce hazardous fumes.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions during spill	Wear protective clothing and mask. Avoid inhalation of powder, fume and vapor as well as skin or eye contact.
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Precautions to protect environment

Avoid washing into water courses. Avoid contaminating public drains or water supply.

Spill cleanup methods

Avoid contact with skin or inhalation of spillage, dust or vapor, Avoid dust formation. Collect and reclaim or dispose in sealed containers in license waste. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

7 HANDLING AND STORAGE

Handling precautions

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

Storage precautions

Keep container closed.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Protective equipment

Safety goggles. Chemical resistant gloves. Protective clothing. Protective mask when high concentrations are present.

Process control measures

Provide eyewash station and safety shower. Use engineering controls to reduce air contamination to permissible exposure levels.

Ventilation

Provide adequate general and local exhaust ventilation.

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Respirators Use high efficiency particulate respirator with appropriate filter.

Exposure limits

<u>Sb₃O₄</u>	<u>mg/m³</u>
Denmark TWA	0.5
Germany OEL	0.3
Switzerland OEL	0.1
United Kingdom TWA	0.5 (SB)

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid
Odor/taste	No characteristic odor.
PH	N/A
Boiling Point	N/A
Melting Point	655 °C
Flash Point	N/A
Flammability	N/A
Autoignition Temp	N/A
Oxidizing Properties	N/A
Explosive Properties	N/A
Explosion Limits	N/A
Vapor Pressure	N/A
SG/Density	5.2 g/cm ³ at 20 °C
Partition Coefficient	N/A
Viscosity	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A

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Evaporation Rate	N/A
Bulk Density	N/A
Decomposition Temp.	N/A
Solvent Content	N/A
Water Content	N/A
Surface Tension	N/A
Conductivity	N/A
Solubility	N/A

10 STABILITY AND REACTIVITY

Stability	No particular stability concerns.
Conditions/materials to avoid	Strong oxidizing agents
Hazardous Decomposition	-

11 TOXICOLOGICAL INFORMATION

Ingestion	May be harmful if swallowed.
Inhalation	May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
Skin	May cause irritation
Eyes	May cause irritation
Sensitization	No effect known
Acute toxicity	LD50, oral, rat, > 34600 mg/kg LD50, intraperitoneal, rat, 3250 mg/kg LD50, intraperitoneal, mouse, 172 mg/kg

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12 ECOLOGICAL INFORMATION

Do not allow material to be released to the environment without proper governmental permits.

13 DISPOSAL CONSIDERATIONS

Disposal method Contact specialist disposal companies. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of in accordance with Local Authority requirements. Recover and reclaim or recycle, if practical.

14 TRANSPORT INFORMATION

General	Not classified as dangerous for transport purposes.
UN No.	0
Road transport notes	Not classified as dangerous for road transport.
Rail transport notes	Not classified as dangerous for rail transport.
Sea transport notes	Not classified as dangerous for sea transport.
Air transport notes	Not classified as dangerous for air transport.

15 REGULATORY INFORMATION

Label for supply Xn harmful

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R-Phrases

40 Limited evidence of a carcinogenic effect.

S-Phrases

22 Do not breathe dust.

36/37 Wear suitable protective clothing, gloves.

16 OTHER INFORMATION

DISCLAIMER

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