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MATERIAL SAFETY DATA SHEET

Section 1- PRODUCT IDENTIFICATION

COMPOSITION Sb	PRODUCT NAME Antimony
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Section 2- HAZARDOUS INGREDIENTS

Note: Products under normal conditions do not represent an inhalation, ingestion or contact health hazard.

MATERIAL OR COMPONENT	CAS NUMBER	WT%	EXPOSURE LIMITS	
			OSHA PEL (Mg/M3)	ACGIH TLV(MG/M3)
Antimony	7440-36-0	100	0.5mg/M³	0.5mg/M³

Section 3- PHYSICAL DATA

MATERIAL IS (AT NORMAL CONDITIONS) <input type="checkbox"/> Liquid <input type="checkbox"/> Solid <input type="checkbox"/> Gas <input type="checkbox"/> Other	APPEARANCE AND ODOR Silvery or gray lustrous metal, no odor
MELTING POINT (BASE METAL) 680° C	SPECIFIC GRAVITY 6.618g/cc

Section 4- FIRE AND EXPLOSION

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N/A	UEL N/A
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EXTINGUISHING MEDIA

In solid form, antimony is not readily flammable. If ground into powder, or if vapors are produced, it presents a moderate fire and explosion hazard. Do not use halogenated extinguishers or water. Smother flames with dry powdered dolomite or other suitable dry powdered extinguishing agents.

SPECIAL FIRE FIGHTING PROCEDURES

No special fire fighting procedures needed. Use normal procedures, which include wearing NIOSH/OSHA approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

None

Section 5- REACTIVITY DATA

STABILITY

Stable in solid form

INCOMPATIBILITY (MATERIALS TO AVOID)

Acids, oxidizers, halogenated compounds, chlorine & trifluoride.

CONDITIONS TO AVOID

Thermal decomposition

HAZARDOUS DECOMPOSITION PRODUCTS

SbH³ & Sb₂O³

Section 6- HEALTH HAZARD GUIDE

MAJOR EXPOSURE HAZARD

Inhalation **Skin** **Skin Absorption** **Eye Contact** **Ingestion**

EFFECTS OF OVEREXPOSURE

INHALATION: May cause pneumonitis, liver and kidney abnormalities.

SKIN CONTACT: May cause dermatitis, skin lesions.

EYE CONTACT: No effects reported.

INGESTION: May cause liver and kidney abnormalities.

EMERGENCY & FIRST AID PROCEDURES

INHALATION: No specific information available. One should seek medical attention.

SKIN CONTACT: Remove contaminated clothing, flood skin with large amounts of water.

EYE CONTACT: Wash eyes immediately with large amounts of water occasionally lifting both upper and lower lids for at least fifteen minutes.

INGESTION: No data available, but one should obtain medical attention.

Section 7- SPILL OR LEAK PROCEDURES

SPILL OR LEAK PROCEDURES

While wearing full protective equipment, cover spill with dry sand or vermiculite. Mix well and carefully transfer to a container.

WASTE DISPOSAL METHODS

Observe all federal, state and local regulations when storing or disposing of this substance.

Section 8- SPECIAL PROTECTION

RESPIRATORY

N/A

VENTILATION

Laboratory fume hood.

EYE PROTECTION & PROTECTIVE CLOTHING

Eye protection/safety goggles are advised along with fully covered clothing and rubber gloves.

Section 9- SPECIAL PRECAUTIONS

Handling and storage: Keep container tightly closed. Store in cool, dry, well-ventilated area. Wash hands thoroughly after use. Wear lab coat and apron, flame and chemical resistant coveralls. Eye wash capable of sustained flushing, safety drench shower and hygienic facilities for washing.

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