



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. OX 25
Effective Date April 6, 1999

SECTION V HEALTH HAZARD DATA

OX 25

Threshold Limited Value Antimony; TWA: 0.5 mg/m³; Cadmium dust; TWA: 0.05 mg/m³; Copper dust; TWA: 1 mg/m³; Zinc dust; TWA: 10 mg/m³. (ACGIH 1992-93)

Effects of Overexposure **INHALATION:** Dust, vapor and/or fume may be irritating to the respiratory system and can result in both acute and chronic overexposure. **INGESTION:** Dust, vapor and/or fume may be absorbed by the digestive system and can result in both acute and chronic overexposure. **EYES:** Dust, vapor and/or fume may cause irritation. **SKIN:** Dust, vapor and/or fume may cause irritation.

Emergency and First Aid Procedures **INHALATION:** Remove to fresh air, treat symptomatically, and get medical attention. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INGESTION:** Treat symptomatically and supportively. Get medical attention immediately. If vomiting occurs, keep head lower than hips to prevent aspiration. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature. Low melting metal alloy.
	Stable	X		

Incompatibility (Materials to Avoid) Strong oxidizers may cause violent reaction.

Hazardous Decomposition Products At temperatures above melting point toxic fumes or vapors may be emitted.

Hazardous Polymerization		Conditions to Avoid	Not applicable.
May Occur	Will Not Occur		
	X		

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Recover for use if not contaminated. Dust material should be vacuumed or wet swept when vacuuming not feasible and put in container for disposal.

Waste Disposal Method Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Dispose of in an approved chemical landfill or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None needed at room temperature. If dusty or fume conditions prevail, work in ventilation hood or wear a NIOSH/MSHA approved respirator.

Ventilation	Local Exhaust	If dusty.	Special	No.
	Mechanical (General)	If dusty or fume.	Other	Adequate to maintain below exposure limit.

Protective Gloves	None needed - rubber or leather, cloth if sensitive.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment Lab coat, eye wash station, ventilation hood, proper gloves.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool place. Wash thoroughly after handling.
Keep container tightly closed when not in use.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.

Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 3	Date 4/6/99	Approved Michael Raszeja	Chemical Safety Coordinator MR
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards. Printed on recycled paper.

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	ONION'S FUSIBLE ALLOY	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS *	Health	0
Chemical Synonyms	Low Melting Alloy		Fire	0
Formula	Bi (50%)/Pb (30%)/Tin (20%)		Reactivity	0
Unit Size	50, 100 grams			
C.A.S. No.	None assigned. See Section II			

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Bismuth: (CAS No. 7440-69-9)	50%	15.0 mg/m ³
Lead: (CAS No. 7439-92-1)	30%	0.15/0.5 mg/m ³ PEL
Tin: (CAS No. 7440-31-5)	20%	2.0/2.0 mg/m ³ PEL
Impurities Typical: Antimony <0.01%; Cadmium <0.01%; Copper 0.04%; Zinc <0.002%		

SECTION III PHYSICAL DATA

Melting Point (°F)	47°C (117°F)	Specific Gravity (H₂O = 1)	6.69
Boiling Point (°F)	Data not listed.	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	None for solid.	Evaporation Rate (=1)	Not applicable.
Vapor Density (Air=1)	Not applicable.		
Solubility in Water	Insoluble.		
Appearance & Odor	Silver to gray metal; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	NA	Lower	Upper
Extinguisher Media	Sand, dry chemical, or CO ₂ should be used on surrounding fire. Do not use water on fire where molten metal is present.				

SPECIAL FIREFIGHTING PROCEDURES

If involved in fire situation, wear a NIOSH/MSHA-approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Molten metals produce fume, vapor and/or dust that may be toxic and/or respiratory irritants. Metal reacts with oxidizing agents.

D.O.T. **NON-REGULATED.**

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20