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MATERIAL SAFETY DATA SHEET

S140

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME ASARCO Incorporated		EMERGENCY TELEPHONE NO. (614) 294-5566
ADDRESS (Number, Street, City, State, and ZIP Code) P.O. Box 327, Columbus, Ohio 43216		
CHEMICAL NAME AND SYNONYMS Zinc Oxide, Zinc White, Flowers of Zinc		TRADE NAME AND SYNONYMS AZO 88
CHEMICAL FAMILY Inorganic, Metallic Oxide	FORMULA ZnO	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	Sublimes at greater than 1800° C.	SPECIFIC GRAVITY (H ₂ O=1)	5.6
VAPOR PRESSURE (mm Hg.)		PERCENT VOLATILE BY VOLUME (%)	0.15%
VAPOR DENSITY (AIR=1)		EVAPORATION RATE (_____ #1)	
SOLUBILITY IN WATER	Nil		
APPEARANCE AND ODOR	Fine white powder		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	None	FLAMMABLE LIMITS	Let	Uet
EXTINGUISHING MEDIA				
SPECIAL FIRE FIGHTING PROCEDURES				
UNUSUAL FIRE AND EXPLOSION HAZARDS	Non-combustible, will not support combustion.			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE - None cited for packaged zinc oxide. "Zinc Oxide Fume"
~~EFFECTS OF OVEREXPOSURE~~ (not the form you purchase) is cited at 5mg/M³

~~HAZARDOUS AND FIRST AID PROCEDURES~~
 Fed. Reg. Vol. 36, No. 105, Part II, May 29, 1971 Note: Zinc oxide
 approved as safe-GRAS 121.101 (f)

Normal clean-up followed by disposal or salvage. Note: In animal feeds and agriculture, traces of zinc oxide are added & desirable.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE		
INCOMPATIBILITY (Materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR		

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
WASTE DISPOSAL METHOD	

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)		
VENTILATION	LOCAL EXHAUST Recommended if extreme, agitated dust present.	SPECIAL
Desirable	recommended for use	OTHER
PROTECTIVE GLOVES	Not required for normal use.	EYE PROTECTION
OTHER PROTECTIVE EQUIPMENT		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
None, but we suggest cleanliness and avoiding extreme humidity and temperature fluctuations.	
OTHER PRECAUTIONS	