

INDOFIL INDUSTRIELS LIMITED

KOLSHET, OFF SWAMI VIVEKANAND ROAD, AZAD NAGAR, SANDOZ BAUG P.O., THANE – 400 607. MAHARASHTRA (INDIA)

TEL. NO.: 00-91-22-67999100 FAX NO.: 00-91-22-2589 83 57 / 59

2-R&D-MSDS- AGRO-FP- 420

MATERIAL SAFETY DATA SHEET

Z-NGD-MODO- AONO-11 - 420 MAIL MAIL ON E11 DATA GILET				
SECTION 1.	PRODU		ION	
Chemical Name	Zineb 759	lineb 75% WP		npany Identification OFIL INDUSTRIES LIMITED SHET, OFF SWAMI VIVEKANAND AD, D NAGAR, SANDOZ BAUG P.O., NE – 400 607. MAHARASHTRA DIA) NO: 00-91-22-67999100 NO: 00-91-22-2589 83 57 / 59
Trade Name	Indofil Z-7	78 75 WP		
Synonyms	Zineb 759	Zineb 75% WP		emical classification: EBDC gicide
IUPAC	zinc ethylene bis (dithiocarbamate) (polymeric)			
CAS Number	12122-67	7-7		
Formula	$C_4H_6N_2S_4Zn$			
SECTION 2.	COMPO	SITION / INFORM	ATIO	N OF INGREDIENTS
COMPONENT N	IAME	CAS REGISTRY NO.		CONCENTRATION
Zineb		12122-67-7		75%
Other ingredients (Surfactants)	S			25%

SECTION 3. HA	ZARDS IDENT	TIFICATION
EMERGENCY OVER	VIEW	
Physical state : Pow	der	
	colour Powder	
Odor : Must	ty Odour	
Harmful or fatal if swallo	owed - can enter lun	igs and cause damage.
Contact can cause eye		
IMMEDIATE HEALTH		
Eye contact	Moderately irritation	•
Skin contact		ged contact can cause irritation or dermatitis.
Ingestion		erial may be harmful.
Inhalation	Dust can irritate the	nose and throat.
Emergency	Move the subject to	fresh air, rest and seek medical aid.
Treatment		
DELAYED OR OTHE	R HEALTH EFFEC	CTS
Target organs		
An "X" in the box adia	rent to the hazard tit	le indicates OSHA Hazard classification. If no "X" is
		zard as defined in the OSHA Hazard Communication
standard (29 CFR 1910		
OSHA Health Hazard C		OSHA Physical Hazard Classification
		•
Toxic Hic	hly Toxic	Flammable Oxidizer
TOXIC ——TIIQ	Jilly TOXIC	Oxidizei — Oxidizei
Irritant	Sensitizer	Combustible
Corrosive C	arcinogenic	Explosive Organic Peroxide
		Pyrophoric unstable
		Organic peroxide water-reactive
		Organic peroxide water-reactive
SECTION 4 : FIR	ST AID MEASUI	RES
Eye		nty of water for at least 15 minutes and see doctor.
Skin		ted clothes, wash skin with soap and water.
Ingestion		by giving 2 glasses of water to drink and call a doctor.
l ·		nouth to an unconscious person.
Inhalation		

SECTION 5 - EIDE	FIGHTING MEASURES
NFPA Flammability	
Classification	
NFPA RATINGS	Health: 1 Flammability:1 Reactivity: 1
OSHA classification	
Flash point	Not applicable
Flammability	No data
(Explosive limits)	
Auto ignition	No data
Temperature	
Hazardous	Hydrogen Sulfide, Carbon Disulfide, and oxides of carbon, nitrogen and
Combustion	sulphur
products	
Extinguishing Media	Dry chemical powder, CO ₂ , Water, Water Spray
Protection of Fire	Wear NIOSH / MSHA approved self-contained breathing apparatus and
Fighters	full protective clothing. Water can release flammable carbon disulfide
	from Zineb. Contain water run-off.
Special Properties	Use Water spray to cool container. Wear self contained breathing
-	apparatus.
Unusual Hazards	Fire produces toxic and flammable products. Hydrogen sulfide, CS ₂ ,
	Oxides of Sulfur, Nitrogen and Carbon.
SECTION 6: ACC	IDENTAL RELEASE MEASURES
Protective	Eliminate all sources of ignition in the vicinity of the spill. If this material
Measures	is released into the work area, evacuate the area immediately.
	•
Spill Management	Scoop or shovel solid material into a suitable container. Keep dust to
Opin Management	minimum. Flush cleaned area with water to chemical sewers. Keep spills
	and cleaning runoffs of municipal sewers and open bodies of water.

SECTION 7:	HANDLING AND STORAGE
Handling	A spill can cause an immediate fire or explosion hazard. Keep containers closed and do not handle or store near heat, sparks or any other potential ignition sources. Use only with adequate ventilation and personal protection. Avoid contact with eyes, skin, and clothing. Prevent contact with food and tobacco products. Do not reuse empty bag.
Storage	Store in a dry shaded, well ventilated area. Do not allow it to become wet or over heated in storage because degradation of the material may occur and fire may be result. Provide plenty of ventilation to dissipate heat.

SECTION 8: EX	XPOSURE CONTROLS / PERSONAL PROTECTION
Engineering controls	Provide exhaust ventilation or other engineering controls. An emergency eye wash station and safety shower should be located near the work-station.
Personal Protective Equipment	Eye Protection: Wear eye protection such as safety glasses, chemical goggles, or face shields if engineering controls or work practices are not adequate to prevent eye contact. Contact lenses should not be worn when working with this chemical

Hand protection: Avoid skin contact .Use gloves. Wash hands with plenty of mild soap and water before eating, drinking, use of toilet facilities or leaving work.

Body protection: Avoid skin contact. Wear long-sleeved fire-retardant garments. Additional chemical-resistant protective gear may be required. This may include an apron, boots and additional facial protection.

Respiratory Protection: Dust/mist filtering respirator or a NIOSH approved respirator.

Work practices: users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing. Deluge safety shower and eye wash station should be located in work area

Occupational exposure limits

Component	Limit		
Zineb	ACGIH	Not determined (threshold limit value)	
Zineb	OSHA	Not determined (permissible exposure limit)	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
Physical state	Solid	Appearance	Yellow to grey colour Powder
Odor	Musty odour	pH (1%)	5 to 7
Specific gravity (Water = 1)	NA	Solubility in water @	Dispersible
Vapor pressure @ (mm Hg)	NA	Vapor density (Air=1)	NA
Viscosity		Boiling point	NA
Melting point (°C)	NA		

SECTION 10: STABILI	TY AND REACTIVITY
Chemical stability	Stable.
Conditions to Avoid	Keep dry and avoid excessive heat (> 49°C) and ignition sources.
Hazardous	Hydrogen Sulfide, Carbon Disulfide, Oxides of carbon, Nitrogen
Decomposition	and Sulphur.
Products	
Hazardous	Data not available.
Polymerization	

SECTION 11: TOXICO	LOGICAL	INFORMATION
Acute Oral toxicity	Zineb	LD 50 > 5000 mg/kg for rats
Acute Dermal toxicity		
Acute Inhalation toxicity		
Eye irritation: This material is irritating to the eyes.		
Skin irritation: This material is irritating to the skin.		

SECTION 11: TOXICO	LOGICAL INFORMATION
Acute Oral toxicity (Rat)	LD 50 > 2000 mg/kg
Acute Dermal toxicity (Rat)	LD 50 > 2000 mg/kg
Acute Inhalation toxicity	LC 50 > 2.752 mg/l
(Rat)	
Eye irritation (Rabbit)	Irritant
Skin irritation (Rabbit)	Non-irritant

SECTION 12:	ECOLOGICAL INFORMATION
Eco-toxicity	Contamination of both terrestrial and marine environments should be avoided.
Environmental	No data.
fate	

SECTION 13: DISPOSAL CONSIDERATIONS
Contamination of both terrestrial and marine environments should be avoided.
No data.

SECTION 14: TRANSPORT INFORMATION					
	Not regulated as a hazardous material by any mode of transportation. It is not a marine pollutant. Export water (IMO): Not regulated Air (ICAO / IATA): Not regulated				
DOT Shipping Name	DOT Technical Name: Zineb Technical				
DOT Hazard class	Class: 9 UN Number: 3077				
DOT identification number	No data				
DOT packing Group	Packaging Group: 9				
DOT additional information	Drum to be placed in a well ventilated area and in a secure position.				

SECTION 15: REGULATORY INFORMATION			
TSCA Inventory	No data		
SARA 311/312 Hazard	No data		
Identification			
SARA 302/304 Emergency	No data		
planning and notification			
SARA 313 Toxic chemical	No data		

notification and Release reporting	
CERCLA	No data
Clean air act (CAA)	Not applicable

SECTION 16: OTHER INFORMATION					
NFPA RATINGS	Health : 1	Flammability :1	Reactivity :1		
HMIS RATINGS	Health : 1	Flammability:1	Reactivity:1		
	0 = Least 1= slight 2= Moderate 3= High 4=Extreme				

ABBREVIATIONS

STEL	Short term exposure limit
ACGIH	American conference of Government Industrial Hygienists
NIOSH	National institute of safety and health
SARA	Super fund Amendments and Reauthorization Act
TWA	Time weighted average
OSHA	Occupational safety and health
NFPA	National Fire protection agency
HMIS	Hazardous Materials information system
RCRA	Resource conservation Recovery act
TSCA	Toxic substance Control Act
WHMIS	Work place Hazardous Materials information system
IRAC	International Agency for Research on Cancer

MANUFACTURE'S / SUPPLIER'S DATA

				
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	Code			
Local Bodies Involved	Collector of T	hane		

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