MSDS: THIFLUZAMIDE 24% SC



INDOFIL INDUSTRIES 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

2-R&D-MSDS-FP-451

MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT IDENTIFICATION				
Chemical Name	THIFLUZAMIDE 24% SC IUPAC: 2',6'-dibromo-2-methyl-4'- trifluoromethoxy-4- trifluoromethyl-1,3-thiazole-5- carboxanilide		Company Identification INDOFIL INDUSTRIES 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	
Trade Name	IGLARE			
Synonyms	THIFLUZAMIDE		GROUP: Anilidine Fungicide	
CAS Number	130000-40-7		CLA	SS : FUNGICIDE
Formula	$C_{13}H_6Br_2F_6N_2O_2S$			
SECTION 2. COMPOSITION / INFORMATION OF INGREDIENTS				
COMPONENT NAME		CAS REGISTRY NO		CONCENTRATION
THIFLUZAMIDE		79983-71-4		24 %
Inert ingredients -		-		76%

SECTION 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Liquid

Colour: Light Brown to Off-white

INGESTION: Harmful if swallowed.

INHALATION: May cause irritation to Throat, Nose and Lungs **EYE CONTACT**: Direct contact may cause moderate eye irritation.

SKIN CONTACT: May cause slight irritation. **DELAYED EFFECTS:** No delayed effects known.

IMMEDIATE HEALTH EFFECTS

Eye contact	Moderate irritation to eyes.
Skin contact	Slight irritating.
Ingestion	Harmful if swallowed.
Inhalation	Harmful if inhaled.

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Target organs

DELAYED OR OTHER HEALTH EFFECTS

No data.

present, the product does not exhibit the hazard as defined in the OSHA Hazard Communication standard (29 CFR 1910.1200)			
OSHA Health Hazard C	,	OSHA Physical Hazard Classification	
OCH IN THE CHILIT HAZARA C	nassincation	COTI/ (1 Trystodi Flazara Glassification	
Toxic H	Highly Toxic	Flammable Oxidizer	
Irritant :	Sensitizer	Combustible	
Corrosive C	arcinogenic	Explosive Organic Peroxide	
		Pyrophoric unstable	
		Organic peroxide water-reactive	
SECTION 4 : FIR			
Eye		ter immediately while holding with eyelids open. Get	
Oleim	medical attention if		
Skin		nated clothing and shoes immediately. Wash with soap or mild detergent and large amount of	
		ects of chemical remains. If symptoms persist get	
	medical help.	go.	
Ingestion		lavage and catharsis, maintain blood pressure and	
		n if respiration is depressed. Do not perform gastric	
		nconscious. Get medical attention immediately.	
Inhalation		t from the exposure area to fresh air immediately. If	
		ped perform the artificial respiration. Keep person	
Notes to physician		medical attention immediately. Il evacuation of stomach is advisable.	
Notes to physician	ii swalloweu, calelu	ii evacuation of stomach is auvisable.	
SECTION 5 : FIRE	FIGHTING ME	ASURES	
NFPA Flammability			
Classification			
NFPA RATINGS		lammability: Reactivity:	
OSHA classification	No data		
Flash point	Not Combustible		
Flammability (Explosive limits)	NA		
Auto ignition	Not Applicable.		
Temperature	11017 πρηιοαρίο.		

During a fire, irritating and possibly toxic gases like carbon dioxide,

carbon monoxide, nitrogen oxides, sulfur dioxide, hydrogen chloride,

may be generated by thermal decomposition or combustion.

An "X" in the box adjacent to the hazard title indicates OSHA Hazard classification. If no "X" is

products

Hazardous

Combustion

Extinguishing Media	Dry chemical, CO _{2,} Water spray, standard foam. For larger fire, use	
	water spray, fog or standard foam.	
Protection of Fire	Wear self-contained breathing apparatus and protective clothing to	
Fighters	prevent contact with skin and eyes.	
Special Properties	Avoid breathing fumes from fire exposed material.	
SECTION 6: ACCIDENTAL RELEASE MEASURES		
Protective	Ensure suitable personal protection during removal of Spillages. This	
Measures	means wearing a face mask that gives protection against organic vapours, eye protection, Chemically resistant gloves, boots and	
	coveralls.	
Spill Management	Absorb the material in the sand, soil, diatomaceous earth or suitable	
	absorbent. Place in suitable material and remove to safe place or	
	dispose of in an incinerator approved for chemicals.	

SECTION 7: HANDLING AND STORAGE		
Handling & Storage procedure	Use appropriate (impervious) clothing, gloves and closed foot ware to prevent the repeated contact with skin. Use flash proof and dust resistant goggles to prevent the contact with eyes. Keep the product in original container tightly closed and correctly labeled. Store in suitable, cool, dry, well ventilated place under lock and key; away from the reach of the children, animals, food and animal	
	feeding stuffs. Store away from the incompatible substances and source of ignition.	

SECTION 8: E	SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION		
Engineering controls	Ventilation: Investigate engineering techniques to reduce exposures. Provide ventilation if necessary to minimize exposures. Use mechanical exhaust ventilation at sources of air contamination such as open process		
	equipment.		
Personal	Eye / face Protection: Safety Glasses or goggles.		
Protective	Skin protection: Avoid skin contact. Rubber gloves should be worn		
Equipment	whenever this material is handled. Wash hands with clean water. Body protection: Avoid skin contact Wear impervious clothing and closed foot ware.		
	Respiratory Protection: Wear suitable mask.		

Occupational exposure limits (exposure limit information)

Component	Limit	TWA	STEL	Ceiling	Notation
Thifluzamide	OSHA	No data	No data	No data	No data
	ACGIH				

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
Physical state	Liquid	Colour	Light Brown To Off-white
Odor	Mild Odour	pH (1% aq. solution)	4 To 8
Specific gravity Bulk density	1.15 ± 0.04 gm /ml	Solubility in water	Forms Suspension in water
Vapor pressure	Not applicable	Vapor density	< 1 Water
Viscosity	500 To 900 cps	Boiling point	No Data
Melting / Freezing point	No Data	Evaporation rate	No Data

SECTION 10: STABILITY AND REACTIVITY		
Chemical stability	This material is chemically stable under normal and anticipated storage and handling conditions.	
Conditions to Avoid	Excessive temperatures.	
Material Incompatibility	Incompatible with strong oxidizing agents	
Hazardous	Decomposition will evolve hydrogen bromide or hydrogen flouride	
Decomposition		
Products		
Hazardous	This product will not undergo polymerization reaction.	
Polymerization		

SECTION 11: TOXICOLOGICAL INFORMATION		
Acute toxicity (Assessment I	argely or completely based on data for active substance)	
Acute Oral toxicity	>6500 mg/kg male rats	
Acute Dermal toxicity	> 5000 mg/kg (Rabbit)	
Acute Inhalation toxicity	>5 mg/ml for 4 Hr.	
Eye irritation (Rabbit): Moderate irritating		
Skin irritation(Rabbit): Slight irritating		
SECTION 12: ECOLOGICAL INFORMATION		
Eco-toxicity: No data		
Environmental fate No data		

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL PROCEDURES: Waste disposal should be in accordance with existing federal, state and local environmental regulations. Dispose of empty, used containers in approved incineration plant in approved land filling area or in a disposal pit away from desirable plants and their roots and water courses. On-site disposal of undiluted product is unacceptable

SECTION 14: TRANSPORT INFORMATION		
	This product is not classified as a dangerous goods.	
DOT Shipping Name	DOT Technical Name: THIFLUZAMDIE	
DOT Hazard class	Class: 9 UN number: 3077	
DOT identification number	Packaging group III	
DOT additional information	Classified as non Dangerous goods for transport by road and Rail.	

SECTION 15: REGULATORY INFORMATION		
Work place classification	Hazard categories under criteria of SARA Title III rules (40 CFR part 370) Immediate acute health Y Delayed chronic health N Fire N Reactive N Sudden Release of pressure N	
SARA TITLE 3 : SECTION 311/312 Hazard Identification	Harmful, Toxic	
SARA TITLE 3 : SECTION 302/304 Emergency planning and notification		
SARA TITLE 3 : SECTION 313 Toxic chemical notification and Release reporting	This product does contain chemicals which are defined as toxic chemicals under and subject to the reporting requirements of, Section 313 of title III of the superfund amendments and Reauthorization act of 1986 and 40 CFR part 372	
CERCLA (40 CFR 302.4)		
Waste classification	No data	
Clean Air Act	No data	

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

ABBREVIATIONS

Short term exposure limit
American conference of Government Industrial Hygienists
National institute of safety and health
Super fund Amendments and Reauthorization Act
Time weighted average
Occupational safety and health
National Fire protection agency
Hazardous Materials information system
Resource conservation Recovery act
Toxic substance Control Act
Work place Hazardous Materials information system
International Agency for Research on Cancer

MANUFACTURE'S / SUPPLIER'S DATA

Name of Firm: INDC				
Mailing Kolshet, Off Swami Vivekanand Road, Address: Azad nagar, Sandoz Baug P.O. Thane – 400 607.		Gat No. 194, Village – Gahunje, Tal. Maval, Dist. Pune.		
Telephone 67999100	Telex		Telephone 020 767 5084	
Fax 2589 8357	Telegraphic Code		Fax 22767 5083	
Local Bodies Involved	Collector of Th	nane		

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