



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- FP- 458

MATERIAL SAFET DATA SHEET

SECTION 1. PRODUCT IDENTIFICATION		
Chemical Name	N-dodecylguanidine acetate	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	NOOR	
Synonyms	Dodine 65 % WP	Chemical classification: Fungicide
IUPAC	N-dodecylguanidine acetate	
CAS Number	2439-10-3	
Formula	C ₁₅ H ₃₃ N ₃ O ₂	
SECTION 2. COMPOSITION / INFORMATION OF INGREDIENTS		
COMPONENT NAME	CAS REGISTRY NO.	CONCENTRATION
Dodine	2439-10-3	65%
Other ingredients	-----	35%
SECTION 3. HAZARDS IDENTIFICATION		
EMERGENCY OVERVIEW		
Physical state : Powder		
Colour : White Powder		
Odor : Pungent.		
IMMEDIATE HEALTH EFFECTS		
Eye contact	May cause severe eye irritation.	
Skin contact	Prolonged or repeated skin contact may cause irritation.	
Ingestion	Swallowing a small quantity of this material will results in serious health hazard	

Inhalation	High concentrations product is irritant to the nose, throat respiratory tract.
Emergency Treatment	Move subject to fresh air. Apply artificial respiration and oxygen, if necessary, seek medical aid immediately
DELAYED OR OTHER HEALTH EFFECTS	
Target organs	-----

An "X" in the box adjacent to the hazard title indicates OSHA Hazard classification. If no "X" is present, the product does not exhibit the hazard as defined in the OSHA Hazard Communication standard (29 CFR 1910.1200)

OSHA Health Hazard Classification	OSHA Physical Hazard Classification
Toxic <input type="checkbox"/> Highly Toxic <input type="checkbox"/>	Flammable <input type="checkbox"/> Oxidizer <input type="checkbox"/>
Irritant <input type="checkbox"/> Sensitizer <input type="checkbox"/>	Combustible <input type="checkbox"/>
Corrosive <input type="checkbox"/> Carcinogenic <input type="checkbox"/>	Explosive <input type="checkbox"/> Organic Peroxide <input type="checkbox"/>
	Pyrophoric <input type="checkbox"/> unstable <input type="checkbox"/>
	Organic peroxide <input type="checkbox"/> water-reactive <input type="checkbox"/>

SECTION 4 : FIRST AID MEASURES

Eye	Flush eyes with plenty of water for at least 20 minutes and seek medical advice.
Skin	Remove contaminated clothes, wash skin with soap and water. seek medical attention if irritating develops.
Ingestion	If swallowed, rinse mouth with water. Do not induced vomiting. seek medical advice.
Inhalation	Assure fresh air breathing. if breathing is difficult, give oxygen. if not breathing, give artificial respiratory, preferable mouth to mouth. obtained medical attention if breathing difficulty persist.
Notes to physician	Antidote none known.

SECTION 5 : FIRE FIGHTING MEASURES

NFPA Flammability Classification	-----
NFPA RATINGS	Health: 2 Flammability :0 Reactivity: 0
OSHA classification	

Flash point	Not Applicable
Flammability (Explosive limits)	No data
Auto ignition Temperature	No data
Hazardous Combustion products	Carbon monoxide, carbon dioxide, nitrogen oxide.
Extinguishing Media	Dry chemical powder, CO ₂ , Water, Water Spray
Protection of Fire Fighters	NIOSH/MSHA-approved respirator equipped with pesticide cartridges, if required
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 : ACCIDENTAL RELEASE MEASURES

Protective Measures	Eliminate all sources of ignition in the vicinity of the spill. If this material is released into the work area, evacuate the area immediately.
Spill Management	Scoop or shovel solid material into a suitable container. Keep dust to 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	Keep away from food, drink and animal feeding stuffs. Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
Storage	Keep locked up. store in dry, well-ventilated area. keep container closed when not in use

SECTION 8: EXPOSURE 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	<p>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</p> <p>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.</p> <p>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.</p> <p>Respiratory Protection: Dust/mist filtering respirator or a NIOSH approved respirator.</p>

	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
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Occupational exposure limits

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid	Appearance	White Powder
Odor	pungent	pH (1%)	5 to 9
Specific gravity (Water = 1)	NA	Solubility in water @	Forms suspension in water
Vapor pressure @ (mm Hg)	NA	Vapor density (Air=1)	NA
Viscosity	--	Boiling point	NA
Melting point (°C)	136°C for dodine		

SECTION 10: STABILITY AND REACTIVITY

Chemical stability	Stable.
Conditions to Avoid	Keep away from heat and ignition sources. Prolonged exposure to temperatures above 40°C may result in some decomposition of dodine. Avoid moisture in storage.
Hazardous Decomposition Products	Thermal decomposition products are toxic and may include oxides of carbon and nitrogen, and irritating gases
Hazardous Polymerization	Data not available.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Oral toxicity	LD50- 1000 mg/kg (rat) (for Dodine technical)
Acute Dermal toxicity	LD50- 6000 mg/kg (rat) and 1560 mg/kg (rabbit) (for Dodine technical)
Acute Inhalation toxicity	1.1 mg/l (for Dodine technical)
Eye irritation (Rabbit) :	Minimally Irritating
Skin irritation (Rabbit) :	Slight Irritant
Skin Sensitization (Guinea Pig) :	Non-skin Sensitizer

SECTION 12: ECOLOGICAL INFORMATION**(Assessment largely or completely based on data for Dodine Active Substance)**

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

	Not regulated as a hazardous material by any mode of transportation.
	Export water (IMO) : Not regulated Air (ICAO / IATA) : Not regulated
DOT Shipping Name	DOT Technical Name: Dodine technical
DOT Hazard class	Class: 9 UN Number: 3077
DOT identification number	No data
DOT Packing Group	III
DOT additional information	Classified as non Dangerous goods for transport by road and Rail.

SECTION 15: REGULATORY INFORMATION

TSCA Inventory	No data
SARA 311/312 Hazard Identification	No data
SARA 302/304 Emergency planning and notification	No data
SARA 313 Toxic chemical notification and Release reporting	No data
CERCLA	No data
Clean air act (CAA)	Not applicable

SECTION 16: OTHER INFORMATION

NFPA RATINGS	Health : 2	Flammability :0	Reactivity :0
HMIS RATINGS	Health : 2	Flammability :0	Reactivity :0
	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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Telephone 67999100	Telex		
Fax 589 8357	Telegraphic Code		
Local Bodies Involved	Collector of Thane		

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