

Sharda Worldwide Export Pvt. Ltd.

TEL : + 91 22 6678 2800, FAX : + 91 22 6678 2828 / + 91 22 6678 2808

EMAIL : shardain@vsnl.com Website: <http://www.shardaintl.com>

(AN ISO 9001 COMPANY)

MATERIAL SAFETY DATA SHEET

CAPTAN 80% WDG

1. IDENTIFICATION OF THE SYBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING											
Product name	CAPTAN 80 WDG										
Supplier	Sharda Worldwide Exports Pvt. Ltd. Domnic Holm, 29 th Road, Bandra (W). Mumbai -400 050 India.										
Emergency telephone number	0091 22 66782800										
Chemical Family	phthalimide										
Product type	Fungicide										
2. COMPOSITION/INFORMATION ON INGREDIENTS											
	<table border="1"><thead><tr><th>Components</th><th>CAS No.</th><th>Content %</th></tr></thead><tbody><tr><td>Captan</td><td>133-06-2</td><td>80%</td></tr><tr><td>Inert ingredients</td><td>-----</td><td>20%</td></tr></tbody></table>	Components	CAS No.	Content %	Captan	133-06-2	80%	Inert ingredients	-----	20%	
Components	CAS No.	Content %									
Captan	133-06-2	80%									
Inert ingredients	-----	20%									
3. HAZARDS INDENTIFICATION											
EMERGENCY OVERVIEW <ul style="list-style-type: none">- May be harmful if swallowed.- Causes severe eye irritation.- Avoid breathing dusts or spray mist.- Avoid contact with eyes, skin or clothing.- Keep out of reach of children.											
POTENTIAL HEALTH HAZARDS											
Eye	Causes irreversible eye damage .Do not get in eyes or on clothing.										

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Skin	Harmful if absorbed through the skin prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
Inhalation	Move person to fresh air. If person is not breathing, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Ingestion	May be harmful if swallowed
<p>KEEP OUT OF REACH OF CHILDREN – WARNING - POISON – DANGER – CORROSIVE TO EYES. Causes irreversible eye damage. Harmful if swallowed or inhaled. May cause allergic skin reactions. Do not get in eyes. Avoid contact with skin and clothing. May be severely irritating or corrosive to the eyes. May be mildly irritating to the skin and in rare cases may cause skin sensitization. May cause irritation to the respiratory tract. Wash thoroughly with soap and water after handling, and before eating, drinking or smoking. Avoid breathing dust or spray mist. Primary routes of entry are Inhalation, eye contact and skin contact.</p> <p>This product is off-white to light brown powder with mildly pungent odor</p>	
<p>ENVIRONMENTAL HAZARDS: Toxic to fish and other water organism. Keep out of waterways.</p>	
4.	FIRST- AID MEASURES
Eye contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice
If swallowed	Call a poison control centre or doctor immediately for treatment advice .Have person sip a glass of water if able to swallow .Don not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious or convulsing person.
If inhaled	Move person to fresh air. If person is not breathing, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
If on skin or clothing	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.
<p>NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.</p>	

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5.	FIRE-FIGHTING MEASURES	
	Flashpoint (method)	Will not flash.
	Flammable limits	Unknown
	Fire and explosion hazards	Can burn in fire, releasing irritating and toxic gases due to thermal. decomposition or combustion.
	Extinguishing Media	Use foam, or dry chemical, carbon dioxide, or water spray when fighting fires involving this material
	Fire fighting instructions	Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Dike and collect water used to fight fire to prevent environmental damage due to run off. Foam or dry chemical fire extinguishing systems is preferred to prevent environmental damage from excessive water run off.
	Fire fighting equipments	Self- contained breathing apparatus with full face piece. Full fire fighting turn-out gear (Bunker gear).
	Hazardous Combustion Products	Hydrogen chloride. Oxides of nitrogen, hydrogen, carbon, sulfur.
6.	ACCIDENTAL RELEASE MEASURES	
	Clean up spills immediately, observing precautions described in section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering	
	Small spill	Vacuum or sweep up material and place in a container for reuse or disposal
	Large spill	Vacuum or sweep up material and place in appropriate container for reuse or disposal. After removal, flush contaminated are thoroughly with water. Pick up wash liquid with inert absorbent and place in a chemical waste container for disposal. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water
7.	HANDLING AND STORAGE KEEP OUT OF REACH OF CHILDREN !	
	Handling	Use only in a well-ventilated area. Minimize dust generation and accumulation. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Use only as directed on the label
	Storage	Keep pesticide in original container. Keep container tightly closed when not in use. Protect from excessive heat. Store in a cool dry place

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8.	<u>EXPOSURE CONTROLS/PERSONAL PROTECTION</u>	
	Causes irreversible eye damage	Inform workers orally by posting warning signs at entrances to treated areas
	Engineering controls	Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit, Facilities storing or utilizing this material should be equipped with an eye-wash facility and a safety shower
	<u>PERSONAL PROTECTIVE EQUIPMENT</u>	
	Eye protection	Safety goggles
	Clothing	Long-sleeved shirt and long pants, shoes plus socks, chemical resistant apron when participating in dip treatments
	Gloves	Chemical resistant gloves made of any water proof material (except applicators driving motorized equipment) such as barrier laminate, butyl rubber, natural rubber, neoprene rubber, or nitrile rubber.
	Respirator	Not normally required. If vapors or dusts exceed acceptable levels, wear a NIOSH approved pesticide respirator.
	User safety recommendations	Wash hand before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticides get inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
9.	<u>PHYSICAL AND CHEMICAL PROPERTIES</u>	
	Physical description	Beige granules
	Odor	Organic
	Molecular weight (technical)	300.6
	Molecular formula (technical)	C ₉ H ₈ Cl ₃ NO ₂ S
	Bulk density	.70g/ml @ 20 degree C
	pH	5.0
	Vapor Pressure	2.01 x 10 ⁻⁴ Pa at 50 degrees C
	% volatile	<1%
	Water solubility	Insoluble
10.	<u>STABILITY AND REACTIVITY</u>	
	Chemical stability	Stable, however may decompose if heated
	Conditions to avoid	Avoid exposure to excessive heat and high moisture conditions for prolonged periods
	Incompatibility with other materials	Alkaline and acidic conditions and materials
	Hazardous decomposition products	Hydrogen chloride. Oxides of hydrogen, nitrogen, sulfur and carbon
	Hazardous polymerization	Product will not undergo polymerization

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11.	<u>TOXICOLOGICAL INFORMATION</u>	
	Acute toxicity	
	Oral LD 50 (rat)	2000-5000 mg/kg bodyweight
	Dermal LD 50 (rat)	<2000 mg/kg bodyweight
	Inhalation LC50 (rat)	>1.02 mg/L air
	Eye irritation (rabbit)	Non-Irritating
	Skin irritation (rabbit)	Non-Irritating
	Sensitization(guinea pig)	Moderate
	MEDICAL CONDITION AGGRAVATED BY EXOSURE- Acute asthma and/or other chronic pulmonary diseases due inhalation of vapors or spray mists	
	CARCINOGEN DATA –	
	OSHA	Not listed
	NTP	Not listed
	IARC	Group 3
	The EPA has classified captan as a probable , human carcinogen due to evidence of intestinal tumors in lab studies and Captan’s chemical similarity to other known carcinogen	
	MUTAGENIC DATA	Mutagenic studies indicate that captan is either non-mutagenic or has very low mutagenicity in test animals
	ADDITIONAL DATA	Teratogenicity studies have been inconclusive and the EPA has concluded that Captan does not produce birth defects
12.	<u>ECOLOGICAL INFORMATION</u>	
	Environmental summary	This pesticide is toxic to fish .Do not apply directly to water. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas.Do not clean equipment or dispose of equipment washwaters in a manner that will contaminate water resources.
	Fish toxicity (technical)	
	96 hour LC ₅₀ , rainbow trout	unknown µg/ml
	96 hour LC ₅₀ , Bluegill	0.07 µg/ml
	Avian toxicity (technical)	
	Oral LD ₅₀ Bobwhite quail	>2,000mg/kg
	Oral LD ₅₀ , Mallard duck	>2,000mg/kg
	Bee toxicity	Non – toxic

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13.	<u>DISPOSAL CONSIDERATIONS</u>	
	Waste	Pesticide wastes are acutely hazardous. improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or Environmental Control agency or Hazardous waste representative at the nearest EPA regional office for guidance
	Container	Refer to product label
14.	<u>TRANSPORT INFORMATION</u>	
	DOT SHIPPING DESCRIPTION	Environmentally hazardous substance, solid, N.O.S (Captan 80%),9, UN 3077,PG III, RQ
	DOT HAZARD CLASS	9
	UN NUMBER	UN 3077
	DOT PACKING GROUP	III
	DOT PRIMARY/ SECONDARY LABEL	Class 9
	DOT PRIMARY/ SECONDARY PLACARD	Class 9
	DOT EMERGENCY RESPONSE GUIDE #	171
15.	<u>REGULATORY INFORMATION</u>	
	FIFRA	All pesticide are governed under the federal insecticide, Fungicide and Rodenticide Act. The regulatory information presented below is pertinent only when this product is handled outside the normal use and application as a pesticide
	OSHA HAZARD COMMUNICATION STANDARD STATUS	Regulated
	CERCLA REPORTABLE QUANTITY	10 pounds
	SARA TITLE III STATUS	
	302 Extremely hazardous substance	No
	311/312 Hazard categories	Immediate
	313 Toxic chemicals	Yes (captan)
	CALIFORNIA PROP 65 STATUS	Listed
16.	<u>OTHER INFORMATION</u>	
	Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of 1 st publication. It is not intended as a specification.