Central Pollution Control Board Ministry of Environment & Forests, Govt of India, Parivesh Bhawan, East Arjun Nagar, Delhi - 110032

MATERIAL SAFETY DATA SHEETS

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GRED

Heptachlor

1. CHEMICAL IDENTITY

I. CHEMICAL IDENT							
Chemical Name : Heptachlor							
Chemical Classificat	•			ide Name			
Synonyms: Velsicol, 1,4,5,6,7,8, 8a - Heptachloro dicyclopentadiene, Aahepta, Agroceres							
Formula : C10H	15CI7		CAS N	b: 76-44-8		UN No: 2761	
Regulated Identifica							
Shipping Name : Organochlorine pesticide, Solid, Toxic Hazchem Code : 2X							
Codes / Label: Class 6.1, ExplosiveHazardous Waste ID No : 15							
HAZARDOUS INGREDIENTS C.A.S. No. HAZARDOUS INGREDIENTS C.A.S. No.							
1 Heptachlor		76-44-8	3				
2			4				
2. PHYSICAL / CHEN							
Boiling 145 (1.5 Pt. °C: Hg)	mm Phy	sical State: S	Solid	Ар	peara	nce: White to I waxy solid	•
Melting 95-96 Pt °C:		our Pressure 5°C mmHg:	4.0X10 @ 25 c	U U	Odo	our: Camphor - odour.	- like
Vapour Density(Air =1):	W	olubility in ater at 30°C 100ml:	0.18 n deg C	ng/l @ 25	Othe	rs: Soluble in c solvents.	organic
Specific Gravity (Water =1): 1.57 @ 9 deg C pH : Not Pertinent						nt	
3. FIRE / EXPLOSIO		DATA					
Flammability :	No	LEL:		Flash Po	oint °C	in OC:	
TDG Flammability:		UEL:		Flash Po	oint °C	in CC:	
Autoignition Temperature °C : Explosion sensitivity to impact: Stable Explosion sensitivity to static Electricity: Stable							
Hazardous Combustion Products : Emits toxic fumes of CL							
Hazardous Polymerization: Will not occur.							
Combustible Liquid:	No	Explosive Ma	aterial:	Yes	Corro	sive Material	No
Flammable Material:	No	Oxidiser :		No	Othe	rs:	
Pyrophoric Material:	No	Organic Perc	oxide :	No			
4. REACTIVITY DATA	4						
Chemical Stability	: Stable						
Incompatibility with other material	: Strong a	Ikali					
Reactivity	:						
Hazardous Reaction Products	:						

5. HEALTH HAZARD DATA

Routes of entry: Inhalation, Ingestion, Skin & Eyes.

Effects of Exposure / Symptoms:

Inhalation : Dust causes irritability, tremors and collapse. Ingestion: Causa nausea, vomiting, diarrhoea, irritation of gastrointestinal tract. Skin & eyes: Dust causes irritation to eyes and moderate irritation of skin.

Emergency Treatment :

Inhalation: Remove the victim to fresh air area, apply artificial respiration of oxygen if needed.

- **Skin:** Remove the contaminated clothing and wash the affected area with plenty of water and soap.
- **Eyes:** First check the victim for contact lenses and remove if present. Flush victim's eyes with water or normal saline solution for 20 to 30 minutes while simultaneously calling a hospital.
- **Ingestion:** Leavage stomach with warm tap water. Avoid fals and oils as they increase the rate of absorption of all chlorinated hydrocarbons. If the victim is conscious and not convulsing, give 1 or 2 glasses of water to dilute the chemical. Call a physician.

•	• •				•	•
LD50 (oral-rat) mg/kg:	40mg/kg		STEL:			
LC50 (rat) mg/kg:			Odour	Threshold:	0.02 ppm	
Permissible Exposure Limit:	0.5 mg/m3,	skin	TLV (A	ACGIH) :	0.5 mg/m3,	skin
NFPA Hazard	Health	Flamma	ability	Reactivity	Special	
Signals		1		1		
6. PREVENTIVE MEASURES						
Personal Protective : \ Equipment	Near appropr	iate protec	tive glov	ves, clothing a	and goggles.	
	All showing to should be considered because. Avoid direct abusical					

- Handling
 : All chemicals should be considered hazardous. Avoid direct physical contact. Use appropriate, approved safety equipment. Untrained individuals should not handle this chemical or its container. Handling should occur in a chemical fume hood.
- **Storage** : Keep in cool, dry, well ventilated area.
- Precautions : Avoid contact with solid and dust

7. EMERGENCY / FIRST AID MEASURES

FIRE:

Fire Extinguishing Media :

- **Special Procedure** : Keep the containers cool by spraying water if exposed to heat or flame.
- **Unusual Hazards** : Irritating gases may be produced.

EXPOSURE: First Aid Measures:

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- **Eyes:** First check the victim for contact lenses and remove if present. Flush victim's eyes with water or normal saline solution for 20 to 30 minutes while simultaneously calling a hospital.
- **Ingestion:** Leavage stomach with warm tap water. Avoid fals and oils as they increase the rate of absorption of all chlorinated hydrocarbons. If the victim is conscious and not convulsing, give 1 or 2 glasses of water to dilute the chemical. Call a physician.

SPILLS : Steps To Be Taken

: Sweep and collect without making dust. Wash the area with water and soap

Waste Disposal Method: Seal all the waste in vapour tight plastic bags for eventual disposal 8. ADDITIONAL INFORMATION / REFERENCES

An experimental carcinogen. Acute exposure and chronic doses cause liver damage.

9. MANUFACTURERS / SUPPLIERS DA	АТА
NAME OF FIRM :	Contact person
MAILING ADDRESS :	in Emergency :
TELEPHONE / TELEX NOS :	Local Bodies involved :
TELEGRAPHIC ADDRESS :	Standard Packing :
OTHERS :	Trem Card Details / Ref :

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