



## MATERIAL SAFETY DATA SHEETS

331

Isodrin

### 1. CHEMICAL IDENTITY

**Chemical Name :** Isodrin

**Chemical Classification:** Toxic

**Trade Name :**

**Synonyms:** Compound 711, 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4,5,8-endo,endo-dimethanonaphthalene,

**Formula :** C<sub>12</sub>H<sub>8</sub>Cl<sub>6</sub>

**CAS No:** 465-73-6

**UN No:** 2761

### Regulated Identification

**Shipping Name :** Organochlorine pesticide, Solid

**Hazchem Code :** 2X

**Codes / Label :** Class 6.1, Toxic

**Hazardous Waste ID No :** 15

HAZARDOUS INGREDIENTS	C.A.S. No.	HAZARDOUS INGREDIENTS	C.A.S. No.
-----------------------	------------	-----------------------	------------

1 Isodrin

465-73-6

3

2

4

### 2. PHYSICAL / CHEMICAL DATA

**Boiling Pt. °C:**

**Physical State:** Crystals

**Appearance:** Drown

**Melting Pt °C:** 239 - 241

**Vapour Pressure @ 35°C mmHg:**

**Odour:** Mild chemical

**Vapour Density(Air =1):**

**Solubility in water at 30°C g/100ml:** Insoluble

**Others:** Soluble in most organic solvents

**Specific Gravity (Water =1 ):**

**pH :**

### 3. FIRE / EXPLOSION HAZARD DATA

**Flammability :** No

**LEL:**

**Flash Point °C in OC:**

**TDG Flammability:**

**UEL:**

**Flash Point °C in CC:**

**Autoignition Temperature °C :**

**Explosion sensitivity to impact:**

**Explosion sensitivity to static Electricity:**

**Hazardous Combustion Products :** When decomposed toxic gases and vapours (CO, HCl) are released.

**Hazardous Polymerization :**

**Combustible Liquid:** No

**Explosive Material:** No

**Corrosive Material** No

**Flammable Material:** No

**Oxidiser :** No

**Others:**

**Pyrophoric Material:** No

**Organic Peroxide :** No

### 4. REACTIVITY DATA

**Chemical Stability :** Stable

**Incompatibility with other material :** Incompatible with concentrated mineral acids, acid catalysts, acid oxidizing agents, phenols, reactive metals.

**Reactivity :**

**Hazardous** :  
**Reaction Products**

## 5. HEALTH HAZARD DATA

**Routes of entry:** Inhalation, Skin , Eyes, Ingestion

### Effects of Exposure / Symptoms:

The chemical is readily absorbed through the skin. It can cause systemic poisoning. Signs of acute intoxication are primarily related to the central nervous system (CNS), including hyperexcitability, convulsion, depression and death. Symptoms of poisoning include nervousness, headache, dizziness, nausea, vomiting, diarrhoea, lack of coordination and tremor. It may cause hepatic damage.

### Emergency Treatment :

**Inhalation:** Move patient to fresh air. Monitor for respiratory distress. Administer oxygen and assist ventilation as required. Treat bronchospasm with beta2 agonist and corticosteroid aerosols.

**Skin:** If clothing is contaminated remove, and wash skin and hair three times; do an initial soap washing followed by an alcohol washing followed by a soap washing. Leather should not be worn in the presence of pesticides as it absorbs them.

**Eyes:** Irrigate exposed eyes with copious amounts of tepid water for at least 15 minutes. If irritation, pain, swelling, lacrimation, or photophobia persist, the patient should be seen in a health care facility.

**Ingestion:** Seek medical assistance.

**LD50 (oral-rat) mg/kg:** 7 mg/kg

**STEL:**

**LC50 (rat) mg/kg:**

**Odour Threshold:**

**Permissible  
Exposure Limit:**

**TLV (ACGIH) :**

NFPA Hazard	Health	Flammability	Reactivity	Special
Signals		1	1	

## 6. PREVENTIVE MEASURES

**Personal Protective Equipment** : Chemical resistant gloves, face-shields, dust-proof goggles, protective clothing and approved respirator

**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** : Store in a cool, dry, well-ventilated location away from strong oxidisers.

**Precautions** :

## 7. EMERGENCY / FIRST AID MEASURES

### FIRE:

**Fire Extinguishing Media** : Water, dry chemical, carbon dioxide

**Special Procedure** : Fire fighters are required to wear breathing apparatus for protection against toxic gases that may evolve in a fire.

**Unusual Hazards** :

### EXPOSURE: First Aid Measures:

**Inhalation:** Move patient to fresh air. Monitor for respiratory distress. Administer oxygen and assist ventilation as required. Treat bronchospasm with beta2 agonist and corticosteroid aerosols.

**Skin:** If clothing is contaminated remove, and wash skin and hair three times; do an initial

soap washing followed by an alcohol washing followed by a soap washing. Leather should not be worn in the presence of pesticides as it absorbs them.

**Eyes:** Irrigate exposed eyes with copious amounts of tepid water for at least 15 minutes. If irritation, pain, swelling, lacrimation, or photophobia persist, the patient should be seen in a health care facility.

**Ingestion:** Seek medical assistance.

**Antidotes / Dosages:** (1) Diazepam or paraldehyde, soluble barbiturates (pentobarbital upto 0.25 to 0.5 gm per day) for control of convulsions. (2) 10% calcium gluconate I.V. injection.

---

#### **SPILLS :**

**Steps To Be Taken** : Dampen the spilled material with toluene and then collect in a container. Wash the surfaces with detergent and water.

**Waste Disposal Method:** The collected material in an air-tight container should be transferred to the treatment plant and subsequent disposal of the sludge in the landfill.

### **8. ADDITIONAL INFORMATION / REFERENCES**

Isodrin is an isomer of aldrin.

### **9. MANUFACTURERS / SUPPLIERS DATA**

<b>NAME OF FIRM :</b>	<b>Contact person</b>
<b>MAILING ADDRESS :</b>	<b>in Emergency :</b>
<b>TELEPHONE / TELEX NOS :</b>	<b>Local Bodies involved :</b>
<b>TELEGRAPHIC ADDRESS :</b>	<b>Standard Packing :</b>
<b>OTHERS :</b>	<b>Trem Card Details / Ref :</b>

### **10. DISCLAIMER**

Information contained in this material data sheet is believed to be reliable but no representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the manufacturer/ seller to ensure that the information contained in the material safety data sheet is relevant to the product manufactured / handled or sold by him as the case may be. The Government makes no warranties expressed or implied in the respect of the adequacy of this document for any particular purpose.

*End of document*

*Total No. of Pages: 3*