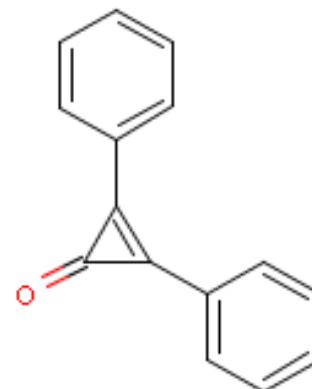


## MATERIAL SAFETY DATA SHEET

### Diphenyprone

#### 1. CHEMICAL IDENTIFICATION

**Product Code:** 1076.  
**Product Name:** 2,3-Diphenylcycloprop-2-en-1-one (98.9-99.99% purity)  
**Synonym:** Diphenyprone, Diphenylcyclopropenone, DPC  
**Supplier:** Helier Scientific Ltd., SWT Institute for Renal Research, Wrythe Lane, Carshalton, Surrey, SM5 1AA, UK.



#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Ingredient name:** 2,3-Diphenylcycloprop-2-en-1-one (98.9-99.99% purity).  
**CAS number:** 886-38-4  
**EEC number:** 212-948-4  
**Formula:** C<sub>15</sub>H<sub>10</sub>O  
**Molecular Weight:** 206.24

#### 3. HAZARD IDENTIFICATION

**Hazard Classification:** High.  
1. Special indication of hazard to humans and the environment  
2. Irritating to skin. May cause sensitisation by skin contact.  
**Hazard symbol:** Xi Irritant.



#### 4. FIRST AID MEASURES

**Eyes:** Flush with 0.9% sodium chloride or clean water. Wash eyes for at least 10mins. Seek medical attention.  
**Skin:** Wash with water, then soap and water thoroughly. If irritation persists seek medical attention.  
**Ingestion:** Wash out mouth thoroughly with water. If swallowed drink plenty of water and seek medical attention.  
**Inhalation:** Remove to fresh air and seek medical help. If not breathing give artificial respiration. Give Oxygen, if breathing is difficult.

#### 5. FIRE FIGHTING MEASURES

**Fire hazard:** Non-flammable  
**Extinguishing Media:** Suitable: Water spray, carbon dioxide, dry chemical powder, or appropriate foam.  
**Special Risks:** Emits toxic fumes under fire conditions.  
**Special Protective Equipments for Fire fighters:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## **6. ACCIDENTAL RELEASE METHODS**

**Personal precaution:** Wear suitable eye protection, a dust mask and gloves.

**Methods for cleaning up:** Surfaces should be wiped with acetone.

## **7. HANDLING AND STORAGE**

**Handling:** 1) Avoid contact with eyes and skin. Wear safety spectacles and appropriate protective clothing.

2) Handle in exhaust ventilation facilities and minimise generation of dust.

3) Avoid inhalation of dust and ingestion.

**Storage:** To prevent deterioration, the product should be stored in tightly closed dark bottles/containers, in a freezer or cold-room at -20°C. The product may deteriorate if exposed to light and oxygen for prolonged periods.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control measures:** Use in a fume cupboards only

**Respiratory precautions:** Suitable dust mask.

**Hand precautions:** Rubber gloves.

**Eye protection:** Safety glasses or goggles.

Avoid contact with skin and eyes. May cause sensitization by skin contact.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** White to clear light brown crystalline solid.

## **10. STABILITY AND REACTIVITY**

**Stability:** It has been reported that diphenacyprone degrades rapidly in UV light and more slowly in natural and artificial light.

**Materials to avoid:** Strong oxidising agents, strong reducing agents.

## **11. TOXICOLOGICAL INFORMATION**

**RTCS No:** No data yet available.

**Sensitisation:** May cause allergic skin reaction.

**Signs and Symptoms of Exposure:**

To the best of our knowledge, the physical, chemical and toxicological properties have not been investigated.

**Route of Exposure:** Material is irritating to mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion or skin absorption. Eye and skin irritation.

## **12. ECOLOGICAL INFORMATION**

No data yet available.

## **13. DISPOSAL CONSIDERATION**

**Disposal:** Disposal should be in accordance to local, state or national Legislation.

The compound should be incinerated. Ideally, all hydrocarbons and related solvents should be incinerated in an approved presence of sodium carbonate and calcium hydroxide (slaked lime). The solid or the liquid absorbed on vermiculite should be wrapped in paper and burned in an approved incinerator.

#### **14. TRANSPORTATION INFORMATION**

Transportation should always be in sealed bottles/containers. Non-hazardous for road, sea or air transport.

#### **15. EEC REGULARITY INFORMATION**

**Risk phrases:** 38-43.  
May cause sensitization of skin. Irritating to skin.

**Safety phrases:** 36/37.  
Avoid contact with skin and eyes. Wear suitable protective clothing and gloves.

**EINECS number:** 212-948-4.

**TSCA listed:** No.

#### **16. OTHER INFORMATION**

The above information is believed to be correct, but we cannot accept liability for any loss, injury for damage which may result from its use. The information given in the Data sheet does not constitute the user's own assessment of workplace risk as required by the Health and Safety legislation currently in force. All chemicals should be handled only by competent personnel within a suitably controlled environment.