



Material Safety Data Sheet

Chemacure PI-184

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name : HYDROXYCYCLOHEXYL PHENYL KETONE
CAS number : 947-19-3
EINECS number : 213-1-3
Product code : Chemacure PI-184
Use / description of product : Photo initiator for UV-cure.
Company name : UV Chem-Keys Co., Ltd
RM9-G, F/9, First Trade Tower, 985# Dongfang RD, Shanghai, China
Zip Code: 200122
Tel: 86 21 58785816
Fax: 86 21 58786585

2. COMPOSITION / INFORMATION ON INGREDIENTS

3. HAZARDS IDENTIFICATION

Main hazards : No significant hazard.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact : There may be mild irritation at the site of contact.
Eye contact : There may be irritation and redness.
Ingestion : There may be irritation of the throat.
Inhalation : There may be irritation of the throat with a feeling of tightness in the chest.

4. FIRST AID MEASURES (ACTION)

Skin contact : Wash immediately with plenty of soap and water.
Eye contact : Bathe the eye with running water for 15 minutes.
Ingestion : Do not induce vomiting. If conscious, give half a litre of water to drink immediately.
Inhalation : Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

5. FIRE-FIGHTING MEASURES

Extinguishing media : Water spray. Carbon dioxide. Alcohol or polymer foam. Dry chemical powder.
Exposure hazards : In combustion emits toxic fumes. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.
Protection of fire-fighters : Wear self-contained breathing apparatus. Wear protective clothing to



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prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Refer to section 8 of SDS for personal protection details.
- Environmental precautions** : Do not discharge into drains or rivers.
- Clean-up procedures** : Transfer to a closable, labeled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

- Handling requirements** : Avoid the formation or spread of dust in the air. Ensure there is sufficient ventilation of the area. Use non-sparking tools.
- Storage conditions** : Store in cool, well ventilated area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits

- TWA (8 hr exposure limit)** : 10mg/m³ (OES)
- Engineering measures** : Ensure all engineering measures mentioned in section 7 of SDS are in place.
- Respiratory protection** : Respiratory protective device with particle filter.
- Hand protection** : Protective gloves.
- Eye protection** : Safety goggles. Face-shield. Ensure eye bath is to hand.
- Skin protection** : Ensure safety shower is to hand. Boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

- State** : Powder
- Colour** : White
- Odour** : Characteristic odour
- Solubility in water** : Insoluble
- Boiling point/range (°C)** : 225
- Melting point/range(°C)** : 46-50
- Flash point(°C)** : >150
- Part.coeff. n-octanol/water** : 2.81
- Autoflammability(°C)** : >420
- Vapour pressure** : 0.02pa
- Relative density** : 1.17



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10. STABILITY AND REACTIVITY

- Stability** : Stable under normal conditions.
- Conditions to avoid** : Direct sunlight. Sources of ignition.
- Materials to avoid** : Strong oxidising agents. Strong acids.
- Haz. decomp. products** : In combustion emits toxic fumes. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

11. TOXICOLOGICAL INFORMATION

- Acute toxicity** : HYDROXYCYCLOHEXYL PHENYL KETONE
IHL RBT LC50 >2000 mg/kg
ORL RAT LC50 >1000 mg/kg
SKN GPG sensitisation not sensitising
SKN RAT LD50 >2000 mg/kg
- Routes of exposure:** : Refer to section 4 of SDS for routes of exposure and corresponding symptoms.
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12. ECOLOGICAL INFORMATION

- Ecotoxicity** : HYDROXYCYCLOHEXYL PHENYL KETONE
ALGAE not tested
BACTERIA Sewage 72H IC50 >100 mg/l
DAPHNIA Daphnia 48H EC50 105 mg/l
FISH Zebra 96H LC50 24 mg/l
- Mobility** : Insoluble in water.
- Persistence and degradability** : Biodegradable.
- Bioaccumulative potential** : Not biodegradable
- Other adverse effects** : No data available.

13. DISPOSAL CONSIDERATIONS

- Disposal operations** : D10 Incineration on land.
- NB** : The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.



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14. Transport information

ADR / RID

UN no : -

Shipping name : "NOT SUBJECT TO ADR"

IMDG / IMO

UN no : -

IATA/ICAO

UN no : -

15. REGULATORY INFORMATION

Hazard symbols : No significant hazard.

Water hazard class : nwg

Note : The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. Other information

Legal disclaimer : The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.