SAFETY DATA SHEET
According to GHS Globally Harmonised System

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

Product name: 1-Hydroxycyclohexyl phenyl ketone
CAS number: 947-19-3
EINECS number: 213-426-9
Product code: VL-1040
Use/description of product: Photo initiator for UV-cure.

2. COMPOSITION / INFORMATION ON INGREDIENTS
Contains: 1-Hydroxycyclohexyl phenyl ketone 99+%  

3. HAZARDS IDENTIFICATION
Main hazards: No significant hazard.

4. FIRST AID MEASURES

Skin contact: Wash off with soap and plenty of water. Do not use organic solvents.
Eye contact: Rinse immediately with plenty of water for at least 15 minutes. In case of eye irritation, seek medical attention.
Ingestion: Move to fresh air. In case of irritation of respiratory system or mucous membranes, seek medical attention. In case of indisposition, seek medical attention. In case of prolonged exposure, seek medical attention.
Inhalation: Move to fresh air. In case of irritation of respiratory system or mucous membranes, seek medical attention. In case of indisposition, seek medical attention. In case of prolonged exposure, seek medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray, Foam, Carbon dioxide (CO2), Dry powder

Extinguishing media which must not be used for safety reasons: High volume water jet.
Exposure hazards: Contaminated water from fire hoses or sprinklers, etc., must be prevented from draining into watercourses, sewers, or the ground water. Sufficient measures must be taken to retain water used for extinguishing. Contaminated water and soil must be disposed of in conformity with local regulations.

Special protective equipment for firefighters: Wear full protective clothing. Wear self-contained breathing apparatus.
Hazardous decomposition products: Oxides of carbon, Toxic gases/vapours.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Do not breathe vapours/dust. Remove all sources of ignition. Avoid contact with skin, eyes and clothing.

Environmental precautions: Do not flush into surface water, sanitary sewer or ground water system.

Clean-up procedures: Use mechanical handling equipment. Collect the spilled product into suitable containers, which must be tightly sealed and properly labelled. Avoid dust formation.

7. HANDLING AND STORAGE

Handling requirements: Avoid dust formation and ignition sources. Ensure good local exhaust ventilation. Do not eat, drink or smoke at the workplace.

Storage conditions: Keep away from food and drink. Store in the original container securely closed. Protect from light and heat. Danger! Explosion risk. Risk of explosion if an air-dust mixture forms. Avoid creating dusty conditions. If container is larger than 2000 liter in volume, or when flammable solvents are present inert container or use a system otherwise designed to prevent or contain an explosion -- seek expert advice.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s): internal exposure limit (8 hour time weighted average)

Value10 mg/m3 Justification to exposure limit.

Exposure limit for inhalable dust.

Technical measures/Precautions: Exposure limit(s) should be monitored using suitable analytical equipment.

Respiratory: Effective dust mask

Hand protection: Protective gloves.

Eye protection: Suitable goggles or face protection

Skin protection: Working clothes, Closed footwear.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: powder or crystal

Color: White

Odour: Characteristic odour

Melting/freezing temperature: 46-50°C

Boiling point/range: > 225 °C

Density 20 °C: 1.17 g/cm3

Flash point: > 150 °C

Ignition Temperature: 420 °C
10. STABILITY AND REACTIVITY

Decomposition temperature: > 300 °C

Conditions to avoid: Static discharges.

Materials to avoid: Strong acids, strong bases and strong oxidising agents.

Hazardous decomposition products: Oxides of carbon, Toxic gases/vapours

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity: Rat
LD50 > 2000 mg/kg

Acute dermal irritation/corrosion: Rabbit
not irritant

Acute eye irritation/corrosion: Rabbit
not irritant

Acute skin sensitisation: Guinea pig
not sensitising

12. ECOLOGICAL INFORMATION

Acute toxicity to fish: Fish 96 h
LC50 24 mg/l

Acute toxicity to daphnia: Daphnia magna 24h
EC50 105 mg/l

Acute toxicity to bacteria: Sewage sludge 3h
IC50 >100mg/l

Acute toxicity to algae: EC50 not tested

Biodegradability: Readily biodegradable

Ecotoxic effects: Do not discharge product uncontrolled into the environment.

13. DISPOSAL CONSIDERATIONS
Waste from residues / unused products: Residual chemical should be disposed by incineration or by other modes of disposal in compliance with local legislation.

Contaminated packaging: Contaminated packaging material should be treated equivalent to residual chemical. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation.

14. TRANSPORT INFORMATION

ADR/RID: Class: Free

IMO: Class: Free

ICAO: Class: Free

15. REGULATORY INFORMATION

Classification: Classification not required.

16. OTHER INFORMATION

Other information: Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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.