

SAFFTY DATA SHEET

According to GHS Globally Harmonised System

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

Product name:1-Hydroxycyclohexyl phenyl ketoneCAS number:947-19-3EINECS number:213-426-9Product 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.
	Then volume water jet.
Exposure hazards:	Contaminated water from fire hoses or sprinklers, etc., must be prevented trom
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Hazardous decomposition products:	Oxides of carbon, Toxic gases/vapours.	
6. ACCIDENTAL RELEASE MEASUR	ES	
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 / PERSON	AL 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 equip	
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	
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Oxidising properties	not tested
Self-ignition temperature	not tested
Water solubility 20 °C	> 0.01 g/l
Vapour pressure 25 °C	0.02 Pa
Partition coe.; Log Pow 20 °C	2.81
pH-value	5.7 (1% suspension in water 20 - 25°C)
Dynamic Viscosity 20 °C	not tested
Explosive properties	not tested
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	Ň
Acute oral toxicity:	Rat
	LD50 > 2000 mg/kg
Acute dermal irritation/corrosion:	Rabbit
	not irritant
Acute eye irritation/corrosion:	Rabbit
	not irritant
Acute skin sensitization:	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
JJ	EC50 105 mg/l
Acute toxicity to bacteria:	Sewage sludge 3h
neute toxicity to bucterial	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	

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Waste from residues / unused	Residual chemical should be disposed by incineration or by other modes of disposal
products:	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.

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