

SAFETY DATA SHEET 1-Hydroxycyclohexyl phenyl ketone

IHT- PI 184

Page 1 Issued: 2009-02-13 Revision No. 01

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:	IHT-PI 184
Use/description of product:	Photo initiator for UV-cure.
Company name:	Insight High Technology Co., Ltd
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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

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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.



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	Exposure limit for inhalable dust.
Technical	Exposure limit(s) should be monitored using suitable analytical
measures/Precautions:	equipments.
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 PR	ROPERTIES
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
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.



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Materials to avoid:	Strong acids, strong bases and strong oxidising agents.	
Hazardous decomposition	Oxides of carbon, Toxic gases/vapours	
products:		
11. TOXICOLOGICAL INFORMAT	ION	
Acute oral toxicity:	Rat	
	LD50 > 2000 mg/kg	
Acute dermal	Rabbit	
irritation/corrosion:	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	
	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 CONSIDERATION	S	
Waste from residues / unused	Residual chemical should be disposed by incineration or by other	
products:	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.	



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14. TRANSPORT INFORMATION	
ADR/RID:	Class: Free
IMO:	Class: Free
ICAO:	Class: Free
15. REGULATORY INFORMATION	J
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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