



Material Safety Data Sheet

CHEMSTAB LS-292

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

Product name : bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

CAS number : 041556-26-7
082919-37-7

Company name : UV Chem-Keys Co., Ltd
RM9-G, F/9, First Trade Tower, 985# Dongfang RD, Shanghai, China
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2. Health Hazards Data

CAS Number : 041556-26-7 082919-37-7

Product Name : bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate (041556-26-7)
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (082919-37-7)

Content : 70-80 % 20-30%

Symbol(s) : Xi – N

R-Phrase(s) : R43 - R50/53

3. HAZARDS IDENTIFICATION

May cause sensitization by skin contact.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

4. FIRST AID MEASURES (SYMPTOMS)

4. FIRST AID MEASURES (ACTION)

Skin contact : Wipe with absorbent paper or textile towels. Wash off with soap and plenty of water. Do not use organic solvents. In case of dermatitis, seek medical attention.

Eye contact : Rinse immediately with plenty of water for at least 15 minutes. In case of eye irritation, seek medical attention

Ingestion : Immediately give plenty (> 500 ml) of water (if possible charcoal slurry). In case of spontaneous vomiting be sure that vomitus can freely drain due to danger of suffocation. Give water repeatedly. Artificial induction of vomiting should be restricted to first aid staff. Give nothing by mouth in cases of unconsciousness or convulsion. Seek medical advice

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.



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5. FIRE-FIGHTING MEASURES

- Extinguishing media** : Water spray, Carbon dioxide (CO₂), Foam, 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, Oxides of nitrogen (NO_x), Toxic gases/vapors

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
- Methods for cleaning up** : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect the spilled product into suitable containers, which must be tightly sealed and properly labeled

7. HANDLING AND STORAGE

- Handling** : Sensitizing. Dangerous for the environment. Handle and open container with care. Avoid vapour formation and ignition sources. Ensure good local exhaust ventilation. Do not eat, drink or smoke at the workplace.
- Storage** : Keep away from food and drink. Store in the original container securely closed. This product can form an ignitable vapour /air mixture. Take precautionary measures against static discharges, e.g. by using proper earthing techniques.
Caution, keep this product well sealed. Keep in cool, dry place. Close containers immediately after use.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Exposure limit(s)** : *internal exposure limit (8 hour time weighted average)*
1 mg/m³ Skin sensitising in animal study
- Technical measures/Precautions** : Exposure limit(s) should be monitored using suitable analytical equipments.
- Respiratory protection** : In case of insufficient ventilation wear suitable respiratory equipment
- Hand protection** : Protective gloves
- Eye protection** : Suitable goggles or face protection
- Skin and body protection** : Working clothes , Closed footwear

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form** : liquid
- Colour** : slightly yellow
- Odour** : ester-like
- Melting/freezing° C** : not applicable
- Boiling point/range° C** : > 350 °C Tested as preparation
- Density 20 °C** : 0.99 g/cm³ Tested as preparation
- Flash point** : 117 °C DIN 51758
- Ignition Temperature** : 380 °C Tested as preparation
- Oxidising properties** : not tested
- Self-ignition temperature** : not tested
- Water solubility 20 °C** : < 0.01 % Tested as
- Vapour pressure 20 °C** : 1.0E-4 Pa Tested as
- Partition coefficient** : **Log Pow 20 – 25 °C** 2.37
- pH-value** : 1 % suspension in water 20 – 25 °C 8.4
- Dynamic Viscosity 20 °C** : 400 mPa.s
- Explosive properties** : not tested

10. STABILITY AND REACTIVITY

- Stability Indicator** : 325 °C
- Conditions to avoid** : No special conditions
- Materials to avoid** : Strong acids, strong bases and strong oxidising agents
- Haz. decomp. products** : Oxides of carbon, Oxides of nitrogen (NOx), Toxic gases/vapours



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11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	LD50 > 2000 mg/kg
Rat		
Acute dermal irritation/corrosion	:	not irritant
Rabbit		
Acute eye irritation/corrosion	:	not irritant
Acute skin sensitisation	:	Sensitizing
Guinea pig		

12. ECOLOGICAL INFORMATION

Acute toxicity to fish	:	LC50 0.97 mg/l
<i>Bluegill 96 h</i>		
Acute toxicity to fish	:	LC50 7.9 mg/l
<i>Rainbow trout 96 h</i>		
Acute toxicity to daphnia	:	EC50 20 mg/l
<i>Daphnia magna 24 h</i>		
Acute toxicity to bacteria	:	IC50 > 100 mg/l
<i>Sewage sludge 3 h</i>		
Acute toxicity to algae	:	EC50 not tested
<i>Algae</i>		
Biodegradability	:	Partially but not 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

Flash point	:	238 °C
ADR/RID Class	:	11C
		UN No : 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS
ICAO Class	:	Free
IMO Class	:	Free
		ICAO Class : 9



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Packaging group : III

15. REGULATORY INFORMATION

Contains : bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Classification : Self-classification

Symbol(s) : Xi Irritant N Dangerous for the environment

R-Phrase(s) : R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.S-Phrase(s) S24 Avoid contact with skin.

S37 Wear suitable gloves.

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

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.