

Minimum Purity: 98.0% (sum of isomers)

Additives: None

SYNONYM(S)

2H-Pyran-2-one, tetrahydro-6-pentyl-

5-Decanolide

5-Hydroxydecanoic acid, delta-lactone

5-Pentyl-5-pentanolide

6-Pentyltetrahydro-2H-pyran-2-one

Decan-5-olide

Dihydrojasmin lactone

delta-Amyl-delta-valerolactone

delta-Amylvalerolactone

delta-Pentyl-delta-valerolactone

delta-Pentylvalerolactone

SECTION 4. FIRST-AID MEASURES

INHALATION EXPOSURE: Remove to fresh air. Give oxygen and call a physician.

EYE CONTACT: Flush with water for 15 min. Seek medical help if necessary.

SKIN CONTACT: Wash area well with water. Seek medical help if necessary.

INGESTION: Administer water and call a physician or poison control center immediately. Do not induce vomiting.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

CO2, FOAM, DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES

Use standard fire fighting procedures.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None.

SECTION 6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Standard absorbents can be used.

WASTE DISPOSAL METHOD: Incineration or sanitary landfill in accordance with local, state, and federal regulations.

SECTION 7. HANDLING AND STORAGE

HANDLING

Observe all warnings and precautions listed for the product.

Use in accordance with good manufacturing and industrial hygiene practices. Use product in a properly ventilated work area. Do not eat, drink or smoke while handling product.

STORAGE

Packaging: Glass, Plastic, Aluminum or Phenolic Lined Steel

Store tightly sealed under inert gas in a cool, well-ventilated area.

FIRE PROTECTION

Keep away from heat, sparks, and open flame.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Local exhaust preferred. General ventilation required.
RESPIRATORY: Usually not required. Avoid inhaling concentrated vapors.
SKIN: Avoid skin contact. Use chemical resistant gloves.
EYES: Splash-proof safety glasses or goggles.
OTHER PROTECTIVE EQUIPMENT: Safety shower, eye wash

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
APPEARANCE: colorless liquid
ODOR DESCRIPTION: creamy, coconut, peach-like aroma.
BOILING POINT: 283.16 C (EPI 4.0)
VAPOR PRESSURE : 0.00294 mmHg (20C, EPI 4.0)
VAPOR DENSITY (Air = 1): > 1
SPECIFIC GRAVITY @ 25C (water = 1): 0.9635:0.9710
SOLUBILITY IN WATER: Insoluble in water; soluble in alcohol.
FLASH POINT (CC): 230 F 110 C
LOGP : 2.570

SECTION 10. STABILITY AND REACTIVITY

INCOMPATIBILITIES
CONDITIONS TO AVOID: Presents no special reactivity hazard.
MATERIALS TO AVOID: Strong oxidizing agents
HAZARDOUS COMBUSTION PRODUCTS
CO, CO2, water

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS

Most likely route of entry is through the skin.
Full strength may be irritating to skin and eyes.

RTECS NUMBERS

RTECS: (2H-Pyran-2-one, tetrahydro-6-pentyl-) UQ1355000

IRRITATION DATA

1% in petrolatum produced no irritation or sensitization in humans.
Eye Rabbit: irritant effects, 1.25% test mat'l, vehicle alcohol SDA 39C;
mild vessel injection involving only conjunctivae. Eyes normal on day 3

of

observation.

TOXICITY DATA

LD50 Dermal (rabbit) > 5 g/kg.
LD50 Oral (rat) > 5 g/kg.

S. typhimurium strains TA97a, TA98, TA100, TA102, TA1535 with and without
S9: No effects, dosed up to 5 mg/plate. Vehicle dimethyl sulfoxide.

THRESHOLD LIMIT VALUE (TLV): Not established

OSHA PERMISSABLE EXPOSURE LIMIT (PEL): Not established

LISTED AS CARCINOGEN BY NTP, IARC, OR OSHA?: NO

SECTION 12. ECOLOGICAL INFORMATION

GENERAL

Prevent contamination of soil, ground- and surface water.

ECOTOXIC EFFECTS

Acute toxicity EC50 Freshwater Daphnia magna: 48 hours 50.7 mg/l 95% confidence interval of 44.7-57.5 mg/l.

Biodegradation test (OECD 301B): 10mg/l readily and ultimately biodegradable. 97.7% biodegradation after 28 days.

SECTION 13. DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD: Incineration or sanitary landfill in accordance with local, state, and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Class	Pack Group	Sub. Risk	UN No.
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Road(U.S.-DOT):	not regulated.		
Air (IATA):	not regulated.		
Sea (IMDG):	not regulated.		

SECTION 15. REGULATORY INFORMATION

REVIEWS, STANDARDS, AND REGULATIONS

This chemical is listed on the following inventories:
TSCA AICS CHINA DSL ECL EINECS(211-889-1) ENCS PICCS
LISTED AS CARCINOGEN BY NTP, IARC, OR OSHA?: NO

SECTION 16. OTHER INFORMATION

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