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## 1. Identification

Product Name : SAURUS Synonyms : None

Product Use : Organophosphorus Insecticide
Manufacturer/Supplier : Helena Chemical Company

Address: 225 Schilling Blvd. Collierville, TN 38017

**General Information**: 901-761-0050

**Transportation Emergency Number**: CHEMTREC:800-424-9300

## 2. Hazard Identification



Signal Word: Warning

**Skin Irritation**: Not classified as hazardous by skin contact **Eye Irritation**: Not classified as hazardous by eye contact

Acute Toxicity Oral : LD50 1,268 mg/kg (female rat), 2,250 mg/kg (male rat)

Acute Toxicity Dermal : LD50 >5,000 mg/kg (rabbit)

Hazard Categories : Oral Toxicity-4

Hazard Statement: Harmful if swallowed

## 3. Composition / Information on Ingredients

 Component
 CAS Number
 Weight %

 gamma-Butyrolactone
 96-48-0
 2.5

 Nonhazardous ingredients
 Proprietary
 82.5

 Chlorpyrifos
 2921-88-2
 15.0

## 4. First Aid Measures

**Eye**: Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing

eyes. Call a poison control center or doctor for treatment advice.

Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for

15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation: Move person to fresh air. If person is not breathing, call an emergency

responder or ambulance, then give artificial respiration. Call a poison control

center or doctor for treatment advice.

**Ingestion**: Call a poison control center or doctor immediately for treatment advice. Have

person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Never give anything by mouth if

unconscious.

Indication of Immediate Medical : Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. In case of

Attention and Special Treatment severe acute poisoning, use antido airway and respiration. Atropine, o

severe acute poisoning, use antidote immediately after establishing an open airway and respiration. Atropine, only by injection, is preferable antidote.

### 5. Fire Fighting Measures

**Extinguishing Media**: Use water, carbon dioxide or dry chemical extinguishing agents. Foam is preferred.



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Chemical

Specific Hazards Arising from the : Hazardous combustion products may include sulfur oxides, phosphorous compounds, nitrogen oxides, hydrogen chloride, carbon monoxide and carbon

dioxide.

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing. Dike fire

fighting water to prevent contamination of sewers or waterways.

#### **Accidental Release Measures**

Personal Precautions: Isolate area. Keep unnecessary and unprotected personnel form entering the

area. Spilled material may cause a slipping hazard.

Protective Equipment : Splashproof goggles or face shield, chemical-resistant gloves, body-covering

clothing. Respiratory protection should be used when there is a potential to exceed the exposure limit. Eyewash/emergency shower should be available in

work area.

**Emergency Procedures** Spills or discharge to natural waterways is likely to kill aquatic organisms.

Contain spilled material if possible. Sweep up small spills, then place in properly Methods and Materials for

labeled containers. Contact professional cleanup contractor for large spills. **Containment and Cleanup** 

## **Handling and Storage**

Precautions for Safe Handling: Keep away from heat, sparks and flame. Keep out of reach of children. Do not

swallow. Avoid contact with eyes, skin and clothing. Avoid breathing dust or mist. Wash thoroughly after handling. Use with adequate ventilation. No smoking, open flames or sources of ignition in handling and storage area. Good housekeeping and controlling of dusts are necessary for safe handling of

product.

Conditions for Safe Storage: Store in a dry place. Store in original container. Do not store near food,

foodstuffs, drugs or potable water supplies.

#### **Exposure Controls / Personal Protection**

TLV/PEL: Chlorpyrifos: ACGIH TWA (inhalable fraction and vapor)=0.1 mg/m3; NIOSH

REL (TWA)=0.2 mg/m3

Appropriate Engineering Controls: Use local exhaust ventilation.

Personal Protective Equipment : Splashproof goggles or face shield, chemical-resistant gloves, body-covering

clothing. Respiratory protection should be used when there is a potential to exceed the exposure limit. Eyewash/emergency shower should be available in

work area.

#### **Physical and Chemical Properties**

**Odor/Appearance**: Tan granule with mercaptan-like odor.

: Not applicable Flash Point, <sup>0</sup>F Boiling Point, <sup>0</sup>F : Not applicable

Melting Point(Freezing point), °C : Not applicable Vapor Pressure, mm Hg @ 20 °C : Not applicable

Vapor Density: Not applicable Solubility in Water : Insoluble

**Molecular Formula**: Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 0.721 g/cm3 (bulk density)

Evaporation Rate(Butyl Acetate = : Not applicable

Octanol/Water Partition : No data available

Coefficient



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**pH** : 5.0 to 6.0 (5%)

Flammable Limits (approximate : No data available

volume % in air)

**Auto-ignition Temperature** : Not applicable **Decomposition temperature** : No data available

## 10. Stability and Reactivity

Reactivity: No data available

Chemical Stability: Stable

Hazardous Decomposition : Decomposition products can include hydrogen cyanide, organic sulfides, sulfur

Products dioxide.

Hazardous Polymerization: Will not occur

Conditions to Avoid: Unstable at elevated temperatures. Avoid temperatures above 158 Degrees F.

Active ingredient decomposes at elevated temperatures. Generation of gas

during decomposition can cause pressure in closed systems.

Incompatible Materials: Avoid contact with bases, oxidizers.

## 11. Toxicological Information

Acute Toxicity (Oral LD50): 1,268 mg/kg (female rat) and 2,250 mg/kg (male rat). Harmful if swallowed.

Acute Toxicity (Dermal LD50): >5,000 mg/kg (rabbit). Not classified as hazardous by skin absorption.

Acute Toxicity Inhalation LC50: >2.06 mg/L/4 hour (rat), exposure to aerosol. Not classified as hazardous by

inhalation.

Likely Routes of Exposure : Ingestion

Skin Irritation: Brief contact is essentially nonirritating to skin. Not classified as hazardous by

skin contact.

Eye Irritation : May cause moderate eye irritation. Corneal injury is not likely. Not classified as

hazardous by eye contact.

**Skin Sensitization**: Did not cause allergic skin reactions when tested in guinea pigs.

Carcinogenic: Not listed by NTP, IARC or OSHA.

Chronic Effects: Excessive exposure may produce organophosphate-type cholinesterase

inhibition. Signs and symptoms of overexposure include headache, dizziness, incoordination, muscle twitching, tremors, nausea, abdominal cramps, diarrhea,

sweating and pinpoint pupils.

Other Hazards: None currently known.

#### 12. Ecological Information

Ecotoxicity: Chlorpyrifos: Very highly toxic to aquatic organisms on an acute basis. Material

is highly toxic to birds on a dietary basis.

Persistence and Degradability: Chlorpyrifos: Biodegradation under aerobic laboratory conditions is below

detectable limits.

Bioaccumulative Potential: Chlorpyrifos: Bioconcentration potential is low.

**Mobility in Soil**: Chlorpyrifos: Expected to be relatively immobile in soil. **Other Adverse Effects**: Marine Pollutant under USDOT, IATA and IMDG.

## 13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local

procedures under the Resource Conservation and Recovery Act.



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## 14. Transport Information

UN Proper Shipping Name: RQ, Environmentally Hazardous Substances, Solid, n.o.s. (Chlorpyrifos)

Transport Hazard Class : Class 9
UN Identification Number : UN3077
Packaging Group : PG III

Environmental Hazards : Marine Pollutant per 49 CFR 172.101, Appendix B; IATA and IMDG.

**Transport in Bulk**: RQ, UN3077, Environmentally Hazardous Substance, Solid, n.o.s.,

(Chlorpyrifos), 9, PG III, Marine Pollutant "ERG # 171" becial Precautions for : Reportable Quantity (RQ)= 1 lb (>6.66 lbs finished product)

Special Precautions for

Transportation

Freight Classification: Pesticides, NOI, Insecticides, Other than Poison (NMFC Item 155050, Sub 11,

Class 70)

## 15. Regulatory Information

National Fire Protection : Association Rating

Health: 1 Fire: 1 Reactivity: 1

Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard : Classification (Yes/No)

Immediate( Acute) Health: Y
Delayed (Chronic) Health: Y
Sudden Release of N
Pressure:

Fire: N Reactive: N

FIFRA Information: This Chemical is a pesticide product registered by the Environmental Protection Agency and is

subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on

the pesticide label:

EPA Registration Number : 62719-34-5905

FIFRA Signal Word : Caution

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement : Harmful if swallowed.

FIFRA Label Statement : Causes moderate eye irritation.
FIFRA Label Statement : Avoid contact with eyes or clothing.

FIFRA Label Statement : Wash thoroughly with soap and water after handling.

FIFRA Label Statement : No additional label statements. FIFRA Label Statement : No additional label statements.

## 16. Other Information

Data of Preparation/Revision: 19-October-2015