



## MATERIAL SAFETY DATA SHEET

### Manufacturer/information service:

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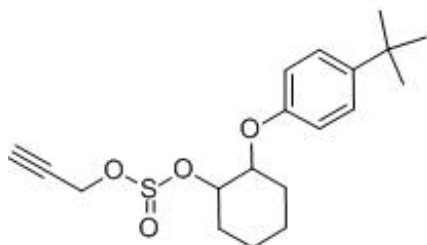
### 1. Chemical Product Identification

Product Name: Propargite 90% TC

Molecular Formula: C<sub>19</sub>H<sub>26</sub>O<sub>4</sub>S

Molecular Weight: 350.47 g/mol

Structural Formula:



Chemical Name: 2-(4-tert-butylphenoxy)cyclohexyl prop-2-ynyl sulphite

Form: Liquid

Color: Dark red to brown

Odor: Faint solvent odor to very faint solvent odor.

CAS No.: 2312-35-8

### 2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Propargite	2312-35-8	90.0
Other ingredients		10.0



### 3. Hazards Identification

Component	Symptom	R phrases
Propargite	T	R10/36/37/38/48

More important danger for the man: Contact with eyes can be corrosive. Prolonged and repeated contact with skin may cause and allergic reaction in some individuals.

Inhalation may cause irritation to lungs, mucous membranes. Chronic inhalation may cause lung damage. Individuals with respiratory problems should avoid inhalation exposure. Results of tests in rats have shown propargite to be an experimental animal carcinogen.

Dangers for the environment: Toxic to fish.

Physical-chemical dangers: Not applicable

### 4. First Aid Measures

If in eyes: immediately flush eyes with plenty of water. See a physician.

If inhaled: remove person to fresh air. Apply artificial respiration if symptoms indicate. Call a physician.

If on skin: wash thoroughly with soap and water. Get medical attention.

If swallowed: do not induce vomiting. Drink promptly a large quantity of milk, egg whites or gelatin solution. If these are not available, drink large quantities of water. Avoid alcohol. Call a physician or poison center immediately.

### 5. Fire-Fighting Measures

Extinguishing media

To be used: water spray, dry chemical.

Don't use: not applicable

Particular risk: autoignition temperature at 326°C

Measures of personal protection: Chemical resistant gloves, protective clothing and eye protection should be worn when handling. Launder clothing before reuse. In the absence of adequate ventilation, use respiratory protection.

### 6. Accidental Release Measures

Personal cautions: Avoid all personal contact. Observe good personal hygiene.

Cleaning methods



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EX: pick up for sweeping or aspiration avoiding the powder formation. Transfer to a properly labelled deposit that will be closed and sealed until the recovery of elimination of the product.

Environmental cautions

EX: prevent the contamination of the floor and of beds of water.

## **7. Handling And Storage**

Handling: wearing protective clothing when handling.

Storage: store in a dry location.

Technical protective measures: sufficient ventilation to minimize dust exposure. Protect closed dust handling systems against possible dust explosions. Avoid dust accumulations on building or equipment surfaces.

Fire and explosion protection: avoid breathing fumes, wear air-supplied breathing apparatus.

Prevent run-off.

## **8. Exposure Controls / Personal Protection**

Personal protective equipment

Respiratory protection: approved respirator

Protective gloves: chemical resistant gloves

Eye protection: goggles

Industrial hygiene: use good industrial hygiene.

Wear face shield or goggles, elbow length PVC gloves, cotton overalls buttoned to the neck and wrist, washable hat and half face respirator with dust and vapour cartridge. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

## **9. Physical And Chemical Properties**

Appearance: Dark red to brown viscous liquid

Boiling point: Decomposes before boiling

Bulk density/Specific gravity: 1.113 g/ml

Flash point: Not expected to self ignite; Not highly flammable

Moisture:  $\leq 0.4\%$

Acidity (as H<sub>2</sub>SO<sub>4</sub>):  $\leq 0.3\%$



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Acetone insolubles:  $\leq 0.2\%$

## 10. Stability And Reactivity

Conditions to avoid: heat and humidity.

Products to avoid: strong acids and alkalis pesticides.

Thermal decomposition: not applicable.

Hazardous decomposition products: oxides of sulfur under burning conditions.

Hazardous reaction: not applicable.

## 11. Toxicological Information

Acute oral LD<sub>50</sub> for rats is 2639 a.i.mg/kg.

Acute percutaneous LD<sub>50</sub> for rats is >4000 a.i.mg/kg.

Acute inhalation toxicity LC<sub>50</sub> (4 h) for rats is 0.8 a.i.mg/l.

Skin irritation: Irritating to skin (rabbits).

Eye irritation: Irritating to eyes (rabbits).

Skin sensitization for guinea pig: Not a skin sensitiser.

## 12. Ecological And Ecotoxicological Information

Effect on birds: Acute oral LD<sub>50</sub> for Mallard is >4640 a.i.mg/kg.

Effect on fish: Acute LC<sub>50</sub> (96 h) for Rainbow trout is 0.043 a.i.mg/l.

Effects on aquatic invertebrates: Acute EC<sub>50</sub> (48 h) for Daphnia magna is 0.014 a.i.mg/l.

Effects on algae: Acute 72 hour EC<sub>50</sub> for Scenedesmus capricornutum is >1.08 a.i.mg/l.

Effects on bees: Contact acute (48 h) LD<sub>50</sub> is 47.9 a.i.µg/bee, Oral acute (48 h) LD<sub>50</sub> is >100 a.i.µg/bee.

Effects on earthworms: Acute 14 day LC<sub>50</sub> is 378 a.i.mg/kg.

## 13. Disposal Considerations

Product: pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the hazardous waste representative at the nearest EPA Regional Office for guidance.



**14. Transport Information**

Not applicable

**15. Regulatory Information**

Not applicable

**16. Other Information**

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.