MATERIAL SAFETY DATA SHEET

1.Product and Company Identification

Product Name	:	Cloquintocet mexyl 97% TC
Chemical Name	:	(RS)-1-methylhexyl (5-chloroquinolin-8-yloxy)acetate
Type	:	Herbicide Safener
Molecular formula	:	$C_{18}H_{22}ClNO_3$

2.Composition/Information on ingredients

Chemical Name	CAS#	Percent or content
Cloquintocet mexyl	99607-70-2	97.0%
Other ingredients	-	03 .0%

3.Health Hazards Identification

Hazard Statements

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H373 - May cause damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements

P102 - Keep out of reach of children

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P270 - Do not eat, drink or smoke when using this product

P331 - Do NOT induce vomiting

P501 - Dispose of contents/ container to an approved waste disposal plant

4.First Aid Measures

Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

Antidote: No specific antidote if ingested. Treat symptomatically.

5.Fire Fighting Measures

Suitable extinguish Media: Use water spray, dry chemical, foam, and carbon dioxide fire extinguisher.

Special hazards arising from the substance or mixture: During combustion, may emit irritant fumes

Advice for firefighters: As in any fire, wear self-contained breathing apparatus and protective clothing.

6.Accidental Release Measures

Personal precautions, protective equipment and Entry to non-involved personnel should be controlled around the leakage area by
Emergency procedures: roping off, etc.
Environmental precautions: Prevent product from entering drains.
Methods and materials for Sweep dust to collect it into an airtight container, taking care not to disperse it.
Containment and cleaning Adhered or collected material should be promptly disposed of, in accordance with up: appropriate laws and regulations.

7.Handling and Storage

Handling: Use appropriate clothing, gloves and closed foot ware to prevent the repeated contact with skin. Use flash proof and dust resistant goggles to prevent the contact with eyes.

Storage: Keep the product in original container tightly closed and correctly labeled. Store in suitable, cool, dry, well ventilated place under lock and key; away from the reach of the children, animals, food and animal feeding stuffs. Store away from the incompatible substances and source of ignition

8.Exposure Controls/Personal Protection

Components with workplace control parameters : This product contains no substances with occupational exposure limit values.

9.Physical and Chemical Properties

State: Solid

Appearance: Colourless crystals

Density: 1.05 g/l

Vapour pressure: 5.31×10^{-03} mPa (25°C)

Melting Point: 69.4°C

10.Stability and Reactivity

Stable under normal use and storage conditions.

Incompatible materials: None

Reactivity: None

11.Toxicological Information

Acute Oral LD50 : >2000 mg/kg body weight (Rat)

Acute Dermal LD50 : >2000 mg/kg body weight (Rabbit)

Acute Inhalation LC50 : >0.935 mg/l (4 h) (rat)

Skin Irritation : Non Irritant (Rabbit)

Eye Irritation : Not irritating to eyes (Rabbit)

Skin Sensitization : No sensitization reaction observed in guinea pigs

12.Ecological Information

Fish (Rainbow Trout) 96-hour LC50 >76 mg/l

Green Algae 5-day EC50 0.63 mg/l

Invertebrate (Water Flea) Daphnia Magna 48-hour LC50 >0.82 mg/l

Bird (Bobwhite Quail) 12-day LD50 >2000 mg/kg

13. Disposal Considerations

Waste Disposal Method: Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

14.Transport Information

Product Name	:	Environmentally Hazardous Substance, Solid, N.O.S
UN No.	:	3077
UN Hazard Class	:	9
UN Packing Group	:	III
Marine Pollutant status	:	Yes

15.Regulatory Information

Risks Phrases
R22 - Harmful if swallowed
R36 - Irritating to eyes
R43 - May cause sensitization by skin contact
R65 - Harmful: may cause lung damage if swallowed
R66 - Repeated exposure may cause skin dryness or cracking
R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

16.Other Information

This Material Safety Data Sheet summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.