

1: IDENTIFICATION

Chemical Name	4-[3-(4,5-dihydro-1,2-oxazol-3-yl)-2-methyl-4-methylsulfonylbenzoyl]-2-methyl-1H-pyrazol-3-one		
Synonyms	Topramezone 33.6% SC		
Uses	Herbicides	Trade Name	ENVEXA
Manufacturer/Supplier	Ulink AgriTech Pvt. Ltd. Office Nos. 001 And 002, Ground Floor Wing "A" And Nos. 003 And 004 Ground Floor Wing "B", Nyati Tech Park, Wadgaon Sheri, Pune - 411014, Maharashtra		
Emergency Contact	9503095030	E-mail	info@agrostar.in

2: COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Name	CAS #	Percent or Content (w/w)
Topramezone	210631-68-8	33.60%
Benzenesulfonic acid, hydroxy-, polymer with formaldehyde, phenol and urea, sodium salt	102980-04-1	< 3 %
Propane-1,2-diol	57-55-6	< 10 %

3: HAZARD IDENTIFICATION

Physical/Chemical Hazard:	Topramezone: Aquatic Hazard Acute Category 1 & Chronic Category 1 Benzenesulfonic acid, hydroxy-, polymer with formaldehyde, phenol and urea, sodium salt: Aquatic Hazard Acute Category 3 & Chronic Category 3
Human Health Hazard:	H360 May damage the unborn child
Environmental Hazard:	H410 Very toxic to aquatic life with long lasting effects. H400 Very toxic to aquatic life.

4: FIRST AID MEASURES

General: First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

Inhalation: Move patients to fresh air. Keep the patients calm. Allow patients to rest. Immediately seek medical attention.

Ingestion: Rinse mouth with water and give plenty of water to drink. Seek medical attention immediately and show container or label.

Skin Contact: In case of contact with product, immediately wash with plenty of water and soap. Speed in removing material from skin is extremely important. Remove and isolate contaminated clothing and shoes. Seek medical attention.

Eye Contact: Rinse immediately with plenty of water for several minutes with eyes wide open. After 5 minutes remove contact lenses if present and continue rinsing with plenty of water. Continue to rinse with eyelid wide open for at least 15-20 minutes. Seek medical attention if irritation develops.

Note to physician: No specific antidote. Treat symptomatically (decontamination, vital functions)

5: FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, foam, dry powder, carbon dioxide

Unsuitable Extinguishing Media: Water jet

Specific Hazards: The substances/groups of substances including carbon monoxide, carbon dioxide, hydrogen chloride, nitrogen oxides, sulfur oxides, halogenated compounds can be released in case of fire.

Hazardous Thermal (de)composition: Thermal decomposition occurs at 210 °C , 330 kJ/kg Not a substance liable to self- decomposition according to UN transport regulations, class 4.1.

Special Procedures: Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. If possible remove containers from fire zone, cool them with water spray.

Protection of Fire Fighters: Do not breathe a fumes, Wear a self contained breathing apparatus. Wear suitable protective gloves and eye/face protection. If area is not too heavily exposed to fire, and if conditions permit, let fire burn itself out, since water may increase the contamination hazard.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ventilate spillage area. Avoid breathing fume. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from spill/ fumes.

Environmental Precaution: Do not allow run-off to enter drains and public waters. Notify the authorities if product enters. Do not discharge into the subsoil/soil.

Methods for Cleaning-up: For small amount, clean up spills as soon as possible, using absorbent material to collect it. For Large amount, dike spillage and pump off the product. Collect spilled material in sealed containers. Dispose of absorbed material in accordance with regulations. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Wear suitable protective equipment.

7: HANDLING & STORAGE

Handling: Do not smoke, drink, or eat during handling. Wash hands using liquid detergent. Wear protective clothing to avoid contact and/or inhalation with the product.

Specific Conditions: Good local exhaust ventilation.

Storage: Store in cool, well-ventilated area, and away from heat and direct sunlight. Keep in original container and tightly closed when not in use. Keep product segregate from foods and animal feeds.

8:EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures: Ensure area is well-ventilated and there is emergency exits and the risk-elimination area. Handle in accordance with good industrial hygiene and safety practice.

General Protection: Avoid contact with eyes and skin. While handling the product wear cotton overalls buttoned to the neck and wrist. Elbow-length PVC gloves and face shield. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

Personal Protection: Follow all precautions and instructions on the label. In all other cases the following recommendations would apply.

Respiratory Protection: Use suitable respiratory protection for lower concentrations or short-term effect, with combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (EN 14387 Type ABEK-P3)

Skin Protection: Must wear suitable protective clothing, including boots, gloves, lab coat, apron or cover all, as appropriate to avoid skin contact. Any clothing or other absorbent material which has been drenched or heavily contaminated must be discarded.

Hand Protection: Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC) or Viton.

Eye Protection: Safety goggles, chemical splash goggles or face shield for eyes protection should be used. Safety showers and eyewash should be easily available.

Others: Wash clothing before reusing.

9:PHYSICAL/CHEMICAL PROPERTIES

Appearance: Liquid

Density [g/ml]: approx. 1.12

Physical State: Liquid

Colour: Off-white

Odour : Aromatic

Crystallization Temperature[°C]: approx -4

Solubility in Water: Dispersible

pH: approx 2.5-4.5

Boiling Point [°C]: approx. 100

10:STABILITY & REACTIVITY

Stability: Stable under normal circumstances upto 60 months

Conditions to Avoid: Temperature below 0°C and above 40°C

Hazardous Decomp. Products: Not liable for self-decomposition. No hazardous decomposition products if stored and handled as prescribe

Substance to Avoid: strong acids, strong bases, strong oxidizing agents

11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg] : >2000

Rat inhalation LC50 [mg/l/4h] : >5.8

Skin irritation (rabbit): Irritant

Dermal (rat) LD50 [mg/kg]: >4000

Skin Sensitization (Guinea Pig): No data available

Eye irritation (rabbit): Irritant

12: ECOLOGICAL INFORMATION

Ecotoxicity

Rainbow trout LC50 (96 hrs) mg/L: 8.71

Daphnia magna EC50 (48 hrs) mg/L: 12.1

Lemna gibba EC50 (7 d) mg/L: 0.064

Bio-accumulation Potential: Bioconcentration factor: 0.69 (42 d), Lepomis macrochirus. Does not significantly accumulate in organisms.

Persistence, Degradability and Mobility in soil: Not readily biodegradable

13: DISPOSAL CONSIDERATION

Waste-disposal Procedures: Dispose of this product only according to the label. Do not contaminate drains, streams, rivers or waterways with the chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated Packaging: Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14: TRANSPORT INFORMATION

UN No. 3082 **Proper Shipping Name:** Environmentally Hazardous Substance, Solid, N.O.S (contains TOPRAMEZONE)

Land Transport (ADR/RID): Class-9, Packing Group-III

Sea Transport (IMO) (IMDG): Class-9, Packing group-III, Marine Pollutant-Yes

Air Transport (IATA / ICAO): Class-9 Packing group-III, Environmental hazard mark-Yes

15: REGULATORY INFORMATION

Hazard Symbol: GHS08, GHS09

Other Regulations: To avoid risks to man and the environment, comply with the instructions for use.

16: OTHER INFORMATION

DISCLAIMER OF LIABILITY The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

----- END -----