

Safety Data Sheet

Category 4

Revision Number: 4

1. Identification of the Substance/Preparation and of the Company/Undertaking

Revision date 31-Dec-2018

Product identifier Product Description:	Ethotron SC Herbicide
Other means of identification	
Product code	12U-139
Registration number(s)	70506-106
Recommended use of the chemica	al and restrictions on use
Recommended use	Herbicide.
Uses advised against	Activities contrary to label recommendation
Details of the Supplier of the Safety Data Sheet Supplier Address UPL NA Inc. 630 Freedom Business Center Suite 402 King of Prussia, PA 19406	
Emergency telephone number Company Phone Number Emergency telephone number	1-800-438-6071 Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887

2. Hazards Identification

Medical: Rocky Mountain Poison Control Center (866) 673-6671 (24hrs)

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Inhalation (Vapors)

Label elements

EMERGENCY OVERVIEW		
Physical state Liquid	Odor faint Organic Sulfur	

Precautionary Statements - Prevention

Do not get in eyes, on skin, or on clothing Use only outdoors or in a well-ventilated area IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor if you feel unwell

Hazards Not Otherwise Classified (HNOC)

OTHER INFORMATION

· Toxic to aquatic life with long lasting effects

· Toxic to aquatic life

· May be harmful in contact with skin

3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Ethylene glycol	107-21-1	8
Ethofumesate	26225-79-6	42.0

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. First aid measures FIRST AID MEASURES Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact Eye contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. Skin contact Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Inhalation Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice. Never give anything by mouth to an unconscious person. Do not induce vomiting without Ingestion medical advice. Call a physician or poison control center immediately. Protection of First-aiders Use personal protective equipment. Most Important Symptoms and Effects, Both Acute and Delayed Most Important Symptoms and no data available. Effects Indication of Any Immediate Medical Attention and Special Treatment Needed Notes to physician Treat symptomatically. 5. Fire-fighting measures Suitable extinguishing media

Carbon dioxide (CO2).

Use:. Dry chemical. Water spray. alcohol-resistant foam.

Unsuitable extinguishing media no data available.

Specific hazards arising from the chemical

No information available.

Hazardous combustion productsNone known.

Explosion data Protective equipment and precautions for firefighters

Use personal protective equipment. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.		
6. Accidental release measures		
Personal precautions, protective	equipment and emergency procedures	
Personal Precautions	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment.	
Environmental Precautions		
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.	
Methods and material for containment and cleaning up		
Methods for Clean-Up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.	
7. Handling and Storage		
Precautions for safe handling		
Handling	Wear personal protective equipment. Use only in area provided with appropriate exhaust ventilation. Do not breathe vapours or spray mist. Use product only in closed system.	
Conditions for safe storage, including any incompatibilities		
Storage	Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Protect from light. Keep in properly labelled containers.	
incompatible materials	Strong oxidizing agents.	
8. Exposure Controls/Personal Protection		

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL
Ethylene glycol	Ceiling: 100 mg/m ³ aerosol only	(vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m ³
Engineering controls	Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.	
Personal protective equipment		
Eye/Face Protection		eye contact. Where there is potential for eye contact have eye e. Safety glasses with side-shields.
Skin protection	Wear protective gloves/clothing. Socks and footwear.	
Respiratory protection	Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.	

General hygiene considerations

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves

and eye/face protection. Avoid contact with skin, eyes and clothing.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state	Liquid		
Appearance	Creamy white	Odor	faint Organic Sulfur
color	No information available		
Property	VALUES	Remarks/ • Method	
рН	No information available		
Melting point/freezing point	no data available		
Boiling Point/Range	No information available		
Flash Point	No information available		
Evaporation Rate	No information available		
Flammability (solid, gas)	No information available		
Flammability limit in air			
Upper Flammability Limit	No information available		
Lower Flammability Limit	No information available		
vapor pressure	No information available		
Vapor Density	No information available		
Specific gravity	1.14 g/ml (for A.I.)		
Water solubility	No information available		
Solubility in Other Solvents	No information available		
Partition coefficient: n-octanol/wa	aterNo information available		
Autoignition temperature	no data available		
Decomposition temperature	No information available		
Viscosity, kinematic	No information available		
Dynamic viscosity	No information available		
Explosive properties	No information available		
Oxidizing properties	No information available		
OTHER INFORMATION			
Softening point	No information available		
molecular weight	No information available		
VOC Content	No information available		
Liquid Density	No information available		
	10. Stability and	Reactivity	
Reactivity	10. Stability and	Reactivity	
no data available			
Chemical stability			

Stable under normal conditions. Hazardous polymerisation does not occur.

Possibility of hazardous reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerisation does not occur.

Conditions to avoid

Extremes of temperature and direct sunlight.

incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

Carbon oxides.

11. Toxicological Information

Information on Likely Routes of Exposure

Product information	Ethofumesate SC formulation: Acute oral LD50 (rat) = >2,100 mg/kg Acute dermal LD50 (rat) = > 4,1000 mg/kg Eye irritation = Slightly irritating	
Inhalation	Harmful by inhalation.	
Eye contact	May cause temporary eye irritation.	
Skin contact	May be harmful in contact with skin.	
Ingestion	HARMFUL IF SWALLOWED.	
Information on Toxicological Effects		
Symptoms	No information available.	
Delayed and immediate effects as	well as chronic effects from short and long-term exposure	
Sensitization Mutagenic effects Carcinogenicity	No information available. no data available. Ethofumesate: In two year feeding studies with animals, adverse effects were only observed at very high doses. These inlcude, a reduced weight gain in males and increased liver weight in females (rats 5,000 ppm); an increase of liver weight in females (hamsters, 2,000 ppm); an increased liver wirhgt in both males and females (dogs 20,000 ppm).	
	Reproductive and developmental toxicity: Demonstrated no adverse effects on reproduction in a three generation rat reproduction study.	
	Teratogenicity: No teratogenic effects were seen in rats at dose levels up to 8-0 mg/kg/day. In rabbits, no adverse effects of biological significance were observed at the low dose (30 mg/kg/day) slight embyrolethal effects were noted at 300 mg/kg/day; severe maternal toxicity and moderate embyrolethal effects were observed at the highest dose.	
Reproductive effects STOT - Single Exposure STOT - Repeated Exposure Chronic toxicity Target organ effects Aspiration hazard	Not Available. no data available. Avoid repeated exposure. Respiratory System, EYES, skin, Central Nervous System (CNS). No information available.	
Numerical Measures of Toxicity - Product information		

LD50 Oral	> 2100 mg/kg (rat)
LD50 Dermal	> 4100 mg/kg (rat)

12. Ecological Information

ecotoxicity

Do not apply directly to water to areas where surface water is present or to intertidal areas below the mean high water mark. Do not clean equipment or dispose of equipment washwater in a manner that will contaminate water resources or areable land. Do not apply when weather conditions favor drift from treated areas.

Persistence/Degradability

no data available.

Bioaccumulation/ Accumulation

Bioaccumulative potential.

Chemical name	Log Pow
Ethylene glycol 107-21-1	-1.93
Ethofumesate 26225-79-6	2.70

Other Adverse Effects

no data available

13. Disposal Considerations		
Waste Disposal Method	Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or 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.	
Contaminated packaging	Refer to product label.	

14. Transport Information

DOT	NOT REGULATED
<u>TDG</u>	NOT REGULATED
IATA	NOT REGULATED
IMDG	NOT REGULATED

15. Regulatory Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling 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:

signal word	CAUTION	
Ventilation Control	PESTICIDE APPLICATORS & WORKERS THESE WORKERS MUST REFER TO PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA WORKER PROTECTION STANDARD 40 CFR PART 170.	
Keep out of Reach of Children. Harmful if inhaled or absorbed through skin. Harmful if swallowed.		
International Inventories USINV	Not present	

DSL/NDSL EINECS/ ELINCS	Not present Not Present
ENCS China KECL PICCS AICS	Not Present Not Present Not Present Not Present Not Present
TSCA	Not Present

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

CERCLA

Not applicable

Chemical name	RQ		CERCLA EHS RQs	RQ		
Ethylene glycol 107-21-1	5000 lb			RQ 5000 lb final RQ RQ 2270 kg final RQ		
CERCLA						
Component			RQ			
Ethylene glycol 107-21-1(8)		5000 lb				
SARA Product RQ	0					

RCRA Pesticide Information

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Ethylene glycol 107-21-1 (8)			Х	

State Regulations

State Right-to-Know Not applicable International regulations U.S. EPA Label information EPA Pesticide registration number 70506-106

16. Other Information					
NFPA	HEALTH 1	flammability 0	Instability 0	Physical hazard -	
Preparation Date	27-Apr-201	15			

 Revision date
 31-Dec-2018

 Revision Summary
 Update logo Update section 1 Update Section 16

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