

# **SAFETY DATA SHEET**

Issuing Date 11-Jun-2020 Revision Date 01-Mar-2022 Revision Number 1

## 1. Identification

Product identifier

Product Name RIGHTLINE ETHO 4 SC

Other means of identification

**Product Code(s)** 87290-2-93051

Synonyms Ethofumesate

Recommended use of the chemical and restrictions on use

Recommended use Herbicide

**Restrictions on use**Use only as directed on product label

Details of the supplier of the safety data sheet

#### **Manufacturer Address**

RightLine LLC 950 Falcon Drive Malden, MO 63863, USA Tel: 770-335-3015

### **Emergency telephone number**

**Emergency telephone** CHEMTREC:

1-800-424-9300 (NORTH AMERICA) 24/7 Health Emergencies: Call 800-858-7378

(National Pesticide Information Center)

## 2. Hazard(s) identification

## Classification

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

Acute toxicity - Oral	Category 4
Skin sensitization	Category 1
Specific target organ toxicity (repeated exposure)	Category 2

## Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

#### Warning

#### **Hazard statements**

Harmful if swallowed.

May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated exposure.



## **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Contaminated work clothing must not be allowed out of the workplace Wear protective gloves Do not breathe dust/fume/gas/mist/vapors/spray

#### **Precautionary Statements - Response**

Get medical advice/attention if you feel unwell IF ON SKIN: Wash with plenty of water and soap If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

Rinse mouth

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other information

Causes mild skin irritation. Toxic to aquatic life with long lasting effects.

## **Unknown acute toxicity**

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

## 3. Composition/information on ingredients

#### Substance

Not applicable.

## Mixture

#### **Synonyms**

Ethofumesate

Chemical name	CAS No	Weight-%	Trade secret
Ethofumesate	26225-79-6	40-50	*
Ethylene glycol	107-21-1	5-10	*
Sodium alkylnaphthalenesulfonate, formaldehyde condensate	-	1-5	*
N-Methyltaurine Sodium Salt	4316-74-9	<1	*
N-methyltaurine	107-68-6	<1	*
1,2-Benzisothiazolin-3-one	2634-33-5	<1	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. First-aid measures

### **Description of first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if

symptoms occur.

**Skin contact** Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation

or allergic reactions see a physician.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Call a physician.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.

## Indication of any immediate medical attention and special treatment needed

**Note to physicians** May cause sensitization in susceptible persons. Treat symptomatically.

## 5. Fire-fighting measures

Suitable Extinguishing Media Dry chemical, CO2, alcohol-resistant foam or water spray.

**Unsuitable extinguishing media**None known based on information supplied.

Specific hazards arising from the

chemical

Product is or contains a sensitizer. May cause sensitization by skin contact. Thermal

decomposition can lead to release of irritating and toxic gases and vapors.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge None

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

**Other information** Refer to protective measures listed in Sections 7 and 8.

#### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled

containers.

## 7. Handling and storage

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take

off contaminated clothing and wash before reuse.

## Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Store locked up.

## 8. Exposure controls/personal protection

#### Control parameters

**Exposure Limits**The following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure

limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Ethylene glycol 107-21-1	STEL: 50 ppm vapor fraction STEL: 10 mg/m³ inhalable particulate matter, aerosol only	(vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m <sup>3</sup>	-
	TWA: 25 ppm vapor fraction		

## **Biological occupational exposure limits**

#### **Appropriate engineering controls**

Engineering controls Showers

Eyewash stations Ventilation systems.

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice. Wash hands before

breaks and after work.

## 9. Physical and chemical properties

# Information on basic physical and chemical properties

**Appearance** 

Physical state Liquid Color Off-white

OdorNo data availableOdor thresholdNo data available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

6.98 None known pН Melting point / freezing point No data available None known Boiling point / boiling range No data available None known > 98 °C / > 208.4 °F Flash point None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability or explosive limits No data available Lower flammability or explosive limits No data available Vapor pressure No data available

None known Vapor density No data available None known Relative density 1.15 None known Water solubility No data available None known Solubility(ies) No data available None known Partition coefficient No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known No data available Kinematic viscosity None known **Dynamic viscosity** 3480 mPas None known

Other information

Explosive properties

Oxidizing properties

No information available.

No information available.

No information available.

No information available

## 10. Stability and reactivity

**Reactivity** None under normal use conditions.

**Chemical stability** Stable under normal conditions.

**Possibility of hazardous reactions** None under normal processing.

Conditions to avoid None known based on information supplied.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## 11. Toxicological information

#### Information on likely routes of exposure

Product Information .

**Inhalation** Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available. Contact with eyes may

cause irritation.

**Skin contact** May cause sensitization by skin contact. Specific test data for the substance or mixture is

not available. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons. (based on components). Causes mild skin irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Harmful if swallowed. (based

on components).

### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.

Acute toxicity

Numerical measures of toxicity

## The following values are calculated based on chapter 3.1 of the GHS document:

**ATEmix (oral)** 1,784.40 mg/kg

#### **Unknown acute toxicity**

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

**Component Information** 

	Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
	Ethofumesate 26225-79-6	= 1130 mg/kg (Rat)	> 20050 mg/kg (Rabbit)	> 3.97 mg/L (Rat) 4 h
	Ethylene glycol 107-21-1	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat)	-
Ź	1,2-Benzisothiazolin-3-one 2634-33-5	= 1020 mg/kg (Rat)	-	-

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** May cause skin irritation.

**Serious eye damage/eye irritation** No information available.

Respiratory or skin sensitization May cause sensitization by skin contact.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

Reproductive toxicity No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**May cause damage to organs through prolonged or repeated exposure.

Target organ effects Skin, kidney.

**Aspiration hazard** No information available.

Other adverse effects No information available.

Interactive effects No information available.

## 12. Ecological information

**Ecotoxicity** 

Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethofumesate 26225-79-6	-	LC50: =10.92mg/L (96h, Cyprinus carpio) LC50: =20.2mg/L (96h, Oncorhynchus mykiss) LC50: =21.2mg/L (96h, Lepomis macrochirus)	<u>-</u>	EC50: 49 - 83mg/L (48h, Daphnia magna) EC50: =13.52mg/L (48h, Daphnia magna)
Ethylene glycol 107-21-1	EC50: 6500 - 13000mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =41000mg/L (96h, Oncorhynchus mykiss) LC50: 14 - 18mL/L (96h, Oncorhynchus mykiss) LC50: =27540mg/L (96h, Lepomis macrochirus) LC50: =40761mg/L (96h, Oncorhynchus mykiss) LC50: 40000 - 60000mg/L (96h, Pimephales promelas) LC50: =16000mg/L (96h, Poecilia reticulata)	-	EC50: =46300mg/L (48h, Daphnia magna)

Persistence and degradability

No information available.

#### Bioaccumulation

**Component Information** 

Chemical name	Partition coefficient
Ethylene glycol 107-21-1	-1.93
1,2-Benzisothiazolin-3-one 2634-33-5	1.3

Other adverse effects

No information available.

## 13. Disposal considerations

## Waste treatment methods

Waste from residues/unused

products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Do not reuse empty containers.

## 14. Transport information

DOT

Not regulated when shipped domestically, by highway, in individual containers less than

119 gallons (({ 171.4} of 49CFR).

For packages greater than 119 gallons, use the IMDG shipping description below when

shipping internationally, or by vessel.

<u>IATA</u>

UN number UN3082

**UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s.

Transport hazard class(es) 9
Packing group III
ERG Code 9L

Special Provisions A97, A158, A197

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s.(Ethofumesate), 9, III

**IMDG** 

UN number UN3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es) 9
Packing group III
EmS-No F-A, S-F
Marine pollutant P

Marine pollutant Ethofumesate Special Provisions 274, 335, 969

**Description** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Ethofumesate), 9, III, Marine pollutant

## 15. Regulatory information

**International Inventories** 

**TSCA** Contact supplier for inventory compliance status.

#### Legend:

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

#### **US 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.

Chemical name	SARA 313 - Threshold Values %
Ethylene glycol - 107-21-1	1.0

## SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Ethylene glycol	5000 lb	-
107-21-1		

### **US State Regulations**

## **California Proposition 65**

This product contains the following Proposition 65 chemicals:

Objective Income

Chemical name	California Proposition 65	
Ethylene glycol - 107-21-1	Developmental	
Naphthalene - 91-20-3	Carcinogen	

#### **U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethylene glycol 107-21-1	X	X	Х
Diethylene glycol 111-46-6	-	-	Х
Naphthalene 91-20-3	X	Х	Х

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** 87290-1

## 16. Other information

NFPA Health hazards 2 Flammability 1 Instability 0 Physical and chemical properties -

Health hazards 2 \* Flammability 1 Physical hazards 0 Personal protection X

Chronic Hazard Star Legend \*= Chronic Health Hazard

#### Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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<u>Disclaimer</u>

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**End of Safety Data Sheet**