



## Safety Data Sheet

Report Date 06-Oct-23

Page 1 of 5

### 1. Identification

**Product Name** : EMPYROS  
**Synonyms** : None  
**Product Use** : S-metolachlor+Tolpyralate Herbicide  
**Manufacturer/Supplier** : Helena Agri-Enterprises, LLC  
**Address** : 225 Schilling Blvd. Collierville, TN 38017  
**General Information** : 901-761-0050  
**Transportation Emergency Number** : CHEMTREC:800-424-9300

### 2. Hazard Identification



**Signal Word** : Danger  
**Skin Irritation** : Causes skin irritation  
**Eye Irritation** : Causes serious eye irritation  
**Acute Toxicity Oral** : LD50 = 3,129 mg/kg  
**Acute Toxicity Dermal** : LD50 > 5,000 mg/kg  
**Hazard Categories** : Inhalation Toxicity-4; Eye/Skin Irritation-2A/2; Skin Sensitization-1B; Aspiration-1; Carcinogen-2  
**Hazard Statement** : Harmful if inhaled  
Causes serious eye irritation  
Causes skin irritation  
May cause an allergic skin reaction  
Suspected of causing cancer (by inhalation)  
May be fatal if swallowed and enters airways

### 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Tolpyralate technical (98.4%)	1101132-67-5	1.12
s-Metolachlor (98.1%)	87392-12-9	41.45
Benoxacor safener (99.8%)	98730-04-2	2.07
Formulation aids and aromatic petroleum solvents	Proprietary	>55



## Safety Data Sheet

Report Date 06-Oct-23

Page 2 of 5

### 4. First Aid Measures

- Eye** : Flush thoroughly with water. If irritation occurs, get medical attention.
- Skin** : Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.
- Inhalation** : Move to fresh air. If breathing has stopped, provide artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.
- Ingestion** : Seek immediate medical attention. Do not induce vomiting.
- Indication of Immediate Medical Attention and Special Treatment Needed** : If ingested, material may be aspirated into lungs and cause chemical pneumonitis. Treat appropriately.

### 5. Fire Fighting Measures

- Extinguishing Media** : Use water fog, foam, dry chemical or carbon dioxide extinguishing agents. Avoid using water jet or straight streams of water.
- Specific Hazards Arising from the Chemical** : Incomplete combustion products, oxides of carbon, smoke, fume.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Use water spray to cool fire-exposed surfaces and to protect personnel.

### 6. Accidental Release Measures

- Personal Precautions** : Avoid contact with spilled material. Keep unprotected and unnecessary personnel out of spill area.
- Protective Equipment** : Use air-purifying respirator with organic vapor cartridge or SCBA. Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Prevent entry of spilled product into waterways, sewers, basements, drains or confined areas.
- Methods and Materials for Containment and Cleanup** : Absorb spills with earth, sand or other non-combustible material. Collect and transfer material into suitable containers for later disposal.

### 7. Handling and Storage

- Precautions for Safe Handling** : Avoid contact. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause electric spark.
- Conditions for Safe Storage** : Store in original containers. Do not store in open or unlabeled containers.

### 8. Exposure Controls / Personal Protection



## Safety Data Sheet

Report Date 06-Oct-23

Page 3 of 5

**TLV/PEL** : No TLV or PEL for mixture. Experimental use product only.

**Appropriate Engineering Controls** : Provide adequate ventilation.

**Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use air-purifying respirator with organic vapor cartridge. Eyewash and emergency shower should be available in work area.

### 9. Physical and Chemical Properties

**Odor/Appearance** : Transparent amber liquid; mild sweet odor.

**Flash Point, °F** : >225 Degrees F.

**Boiling Point, °F** : No information available

**Melting Point(Freezing point), °C** : No information available

**Vapor Pressure, mm Hg @ 20 °C** : No information available

**Vapor Density** : No information available

**Solubility in Water** : Emulsifies in water

**Molecular Formula** : No information available

**Density, g/mL @ 25 °C** : 1.050-1.070 (mid 8.84 lbs/gal)

**Evaporation Rate(Butyl Acetate = 1)** : No information available

**Octanol/Water Partition Coefficient** : No information available

**pH** : 5.04

**Flammable Limits (approximate volume % in air)** : No information available.

**Auto-ignition Temperature** : No information available

**Decomposition temperature** : No information available

### 10. Stability and Reactivity

**Reactivity** : No information available

**Chemical Stability** : Stable

**Hazardous Decomposition Products** : No information available

**Hazardous Polymerization** : Will not occur

**Conditions to Avoid** : No information available

**Incompatible Materials** : No information available

### 11. Toxicological Information

**Acute Toxicity (Oral LD50)** : 3,129 mg/kg. Not classified as hazardous under 29 CFR 1910.1200 (2012).

**Acute Toxicity (Dermal LD50)** : >5,000 mg/kg. Not classified as hazardous under 29 CFR 1910.1200 (2012).



## Safety Data Sheet

Report Date **06-Oct-23**

Page 4 of 5

**Acute Toxicity Inhalation LC50** : >2.0 mg/L (dusts/mists). Harmful if inhaled.

**Likely Routes of Exposure** : Inhalation, skin

**Skin Irritation** : Causes skin irritation.

**Eye Irritation** : Causes serious eye irritation.

**Skin Sensitization** : May cause an allergic skin reaction. Sensitizing to Guinea pigs.

**Carcinogenic** : Suspected of causing cancer (Naphthalene, IARC Group 2B).

**Chronic Effects** : Aspiration Hazard: May be fatal if swallowed and enters airways. Note for CA PROPOSITION 65, 1,4-dioxane, ethylene oxide and naphthalene are present at less than 0.1%.

**Other Hazards** : **CA PROPOSITION 65 WARNING!**: This product can expose you to chemicals including naphthalene/ethylene oxide/1,4-dioxane, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### 12. Ecological Information

**Ecotoxicity** : Marine Pollutant

**Persistence and Degradability** : No information available

**Bioaccumulative Potential** : No information available

**Mobility in Soil** : No information available

**Other Adverse Effects** : No information available

### 13. Disposal Considerations

**Waste Disposal Method** : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

### 14. Transport Information

**UN Proper Shipping Name** : Not regulated by D.O.T. in non-bulk packages. Regulated if shipped by ground in bulk packages, or if shipped in any size package by air (IATA) or water (IMDG).

**Transport Hazard Class** : None

**UN Identification Number** : None

**Packaging Group** : None

**Environmental Hazards** : Naphthalene, reportable quantity (RQ)=100 pounds.

**Transport in Bulk** : If shipped in bulk packages by ground, ship as UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Naphthalene), 9, PG III, Marine Pollutant "ERG # 171"

**Special Precautions for Transportation** : If shipped by air (IATA) or water (IMDG) in any size package, ship as: UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Naphthalene), 9, PG III, Marine Pollutant

**Freight Classification** : Pesticides, NOI, Herbicides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)



## Safety Data Sheet

Report  
Date 06-Oct-23

Page 5 of 5

### 15. Regulatory Information

National Fire Protection :  
Association Rating

Health: 2 Fire: 1 Reactivity: 0  
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard :  
Classification (Yes/No)

Immediate( Acute) Health: Y  
Delayed (Chronic) Health: Y  
Sudden Release of N  
Pressure:  
Fire: N  
Reactive: N

**FIFRA Information** : This Chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling 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:

**EPA Registration Number** : 5905-641

**FIFRA Signal Word** : Caution

**FIFRA Label Statement** : Keep out of reach of children.

**FIFRA Label Statement** : Harmful if swallowed. Causes moderate eye irritation.

**FIFRA Label Statement** : Avoid contact with skin, eyes or clothing.

**FIFRA Label Statement** : Wash thoroughly with soap and water after handling and

**FIFRA Label Statement** : before eating, drinking, chewing gum, using tobacco or using the toilet.

**FIFRA Label Statement** : Remove and wash contaminated clothing before reuse.

**FIFRA Label Statement** : Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### 16. Other Information

**Data of Preparation/Revision** : 06-October-2023