



Safety Data Sheet

Report Date 19-Apr-21

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1. Identification

Product Name : EMPYROS TRIAD
Synonyms : None
Product Use : Atrazine, 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 : Warning
Skin Irritation : Causes mild skin irritation
Eye Irritation : Causes eye irritation
Acute Toxicity Oral : LD50 >5,000 mg/kg
Acute Toxicity Dermal : Mixture not yet tested

Hazard Categories : Oral/Dermal/Inhalation Toxicity-5/5/4; Eye/Skin Irritation-2B/3; Skin Sensitizer-1B; STOT,Repeated-2

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Harmful if inhaled
Causes eye irritation
Causes mild skin irritation
May cause an allergic skin reaction
May cause damage to organs (lungs) through prolonged or repeated exposure

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Tolpyralate	1101132-67-5	0.48
Atrazine	1912-24-9	19.40
s-Metolachlor	87392-12-9	19.40
Non-hazardous formulation aids	Proprietary	60.72



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4. First Aid Measures

- Eye** : Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- Skin** : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
- Inhalation** : Move to fresh air. If 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.
- Ingestion** : Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- Indication of Immediate Medical Attention and Special Treatment Needed** : There is no specific antidote. Treat symptomatically.

5. Fire Fighting Measures

- Extinguishing Media** : Use dry chemical, foam or carbon dioxide extinguishing media. If water is used to fight fire, dike and collect runoff.
- Specific Hazards Arising from the Chemical** : During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

- Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area.
- Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use NIOSH-approved respirator with any N, R, P or HE filter. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water.
- Methods and Materials for Containment and Cleanup** : Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent. Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposal.

7. Handling and Storage



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Precautions for Safe Handling : Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for Safe Storage : Store in a well-ventilated, secure area out of the reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area.

8. Exposure Controls / Personal Protection

TLV/PEL : TLV: atrazine=2 mg/m³ (inhalable). No other occupational exposure limits established.

Appropriate Engineering Controls : Use effective engineering controls to comply with occupational exposure limits.

Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

Odor/Appearance : Opaque white liquid; aromatic sweet odor.

Flash Point, °F : >230 Degrees F.

Boiling Point, °F : Mixture not yet tested

Melting Point(Freezing point), °C : Mixture not yet tested

Vapor Pressure, mm Hg @ 20 °C : Mixture not yet tested

Vapor Density : Mixture not yet tested

Solubility in Water : Dispersible

Molecular Formula : Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.065-1.075 (mid 8.92 lbs/gal)

Evaporation Rate(Butyl Acetate = 1) : Mixture not yet tested

Octanol/Water Partition Coefficient : Mixture not yet tested

pH : 6.3 (neat)

Flammable Limits (approximate volume % in air) : Mixture not yet tested

Auto-ignition Temperature : Mixture not yet tested.

Decomposition temperature : Mixture not yet tested

10. Stability and Reactivity

Reactivity : Not reactive

Chemical Stability : Stable

Hazardous Decomposition Products : None known

Hazardous Polymerization : Will not occur



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Conditions to Avoid : None known
Incompatible Materials : None known

11. Toxicological Information

Acute Toxicity (Oral LD50) : >5,000 mg/kg. May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : No LD50 data available. May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : >2.0 mg/L. Harmful if inhaled.
Likely Routes of Exposure : Skin, inhalation, dermal, eyes
Skin Irritation : Causes mild skin irritation.
Eye Irritation : Causes eye irritation.
Skin Sensitization : May cause an allergic skin reaction.
Carcinogenic : Mixture not yet tested.
Chronic Effects : Specific Target Organ Toxicity, Repeated Exposure: May cause damage to organs (lungs) with prolonged or repeated exposure.
Other Hazards : CA PROPOSITION 65 **WARNINGS!**: This product can expose you to chemicals including atrazine, which is known to the State of California to cause reproductive harm. For more information, go to www.P65Warnings.ca.gov.

12. Ecological Information

Ecotoxicity : No information available
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 DOT for ground transport. Classified as a marine pollutant if shipped by air (IATA) or water (IMDG).
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : Not listed as a Marine Pollutant on Appendix B to 49 CFR 172.101.



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Transport in Bulk : Not regulated by DOT for ground transport.
Special Precautions for Transportation : If shipped by air (IATA) or water (IMDG), ship as: UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Atrazine, s-metolachlor, tolpyralate), 9, PG III, Marine Pollutant
Freight Classification : Pesticides, NOI, Herbicides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)

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 : 5905-640

FIFRA Signal Word : Caution

FIFRA Label Statement : RESTRICTED USE PESTICIDE Due to Ground and Surface Water Concerns.

FIFRA Label Statement : Harmful if absorbed through skin. 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 before

FIFRA Label Statement : 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 : 19-April-2021