



Safety Data Sheet

Report Date 02-Nov-15

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1. Identification

Product Name : SORTIE ATZ
Synonyms : None
Product Use : Dimethenamid-P+Atrazine Herbicide
Manufacturer/Supplier : Helena Chemical Company
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 : Not classified as hazardous under 29 CFR 1910.1200 (2012)
Eye Irritation : Not classified as hazardous under 29 CFR 1910.1200 (2012)
Acute Toxicity Oral : LD50 (female rat) >500 mg/kg <2,000 mg/kg
Acute Toxicity Dermal : LD50 (rat) >4,000 mg/kg
Hazard Categories : Oral Toxicity-4; Skin Sensitization-1; Carcinogen-2; STOT, Repeated-2
Hazard Statement : Harmful if swallowed
May cause an allergic skin reaction
May cause damage to organs through prolonged or repeated exposure
Suspected of causing cancer

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Atrazine	1912-24-9	35.3
(S)-dimethenamid	163515-14-8	18.2
Naphthalene	91-20-3	<0.3
Ethylene glycol	107-21-1	1.0-5.0
1,2-benzisothiazol-3(2H)-one	2634-33-5	<0.1
Solvent Naphtha	64742-94-5	1.0-3.0
Proprietary ingredients	Nonhazardous	38.1-44.1



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4. First Aid Measures

- Eye** : Wash affected eyes for at least 15 minutes under running water with eyelids held open.
- Skin** : Wash thoroughly with soap and water.
- Inhalation** : Keep patient calm. Remove to fresh air. Seek medical attention.
- Ingestion** : Immediately rinse mouth and then drink 1 to 2 glasses of water. Seek medical attention.
- Indication of Immediate Medical Attention and Special Treatment Needed** : Treat according to symptoms (decontamination, vital functions). There is no known specific antidote.

5. Fire Fighting Measures

- Extinguishing Media** : Use foam, dry powder, carbon dioxide or water spray extinguishing agents.
- Specific Hazards Arising from the Chemical** : If product is heated above decomposition temperature, toxic vapors will be released. May emit carbon monoxide, carbon dioxide, nitrogen oxide, nitrogen dioxide, hydrogen chloride, halogenated hydrocarbons, hydrocarbons, sulfur dioxide, sulfur oxides.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing. Contain contaminated water from fire fighting.

6. Accidental Release Measures

- Personal Precautions** : Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation.
- Protective Equipment** : Splashproof goggles or face shield, chemical-resistant gloves, impervious apron and footwear. Use NIOSH-certified respirator with TC23C chemical/mechanical type filter system for particles, gas and vapors if ventilation is inadequate. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.
- Methods and Materials for Containment and Cleanup** : Dike spillage. Pick up with suitable absorbent material. Place in suitable containers for reuse or disposal. Spilled product should be recovered and applied according to label rates whenever possible. If application of spilled product is not possible, then spills should be contained, solidified and placed in suitable containers for disposal. After decontamination, spill area can be washed by water. Collect wash water for approved disposal.

7. Handling and Storage



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- Precautions for Safe Handling** : Ensure adequate ventilation. Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect contents from the effects of light. Protect against heat. Protect from air. Handle and open container with care. Do not open until ready to use. Avoid aerosol formation. Avoid dust formation. Do not return residues to the storage containers.
- Conditions for Safe Storage** : Segregate from foods and animal feeds. Segregate from incompatible substances. Segregate from textiles and similar materials. Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination. Protect from temperatures below 0 Degrees C. and above 40 Degrees C. Changes in the properties of the product may occur if product is stored above indicated temperature for extended periods of time.

8. Exposure Controls / Personal Protection

- TLV/PEL** : Ethylene glycol: TLV=100 mg/m³ (aerosol), PEL=50 ppm (CLV) 125 mg/m³. Solvent naphtha: PEL=100 ppm. Atrazine: PEL=5 mg/m³, TLV=5 mg/m³.
- Appropriate Engineering Controls** : Engineering controls should be used to minimize the need for personal protective equipment.
- Personal Protective Equipment** : Splashproof goggles or face shield, chemical-resistant gloves, impervious apron and footwear. Use NIOSH-certified respirator with TC23C chemical/mechanical type filter system for particles, gas and vapors if ventilation is inadequate. Eyewa

9. Physical and Chemical Properties

- Odor/Appearance** : White dispersion with moderate sweetish odor.
- Flash Point, °F** : >100 Degrees C.
- Boiling Point, °F** : 100 Degrees C. (approx)
- Melting Point(Freezing point), °C** : <0 Degrees C.
- Vapor Pressure, mm Hg @ 20 °C** : 0.07 hPa (approx)
- Vapor Density** : No information found
- Solubility in Water** : Dispersible
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.13 (approx)
- Evaporation Rate(Butyl Acetate = 1)** : No information found
- Octanol/Water Partition Coefficient** : 1.89
- pH** : 3.3
- Flammable Limits (approximate volume % in air)** : No information found
- Auto-ignition Temperature** : No information found
- Decomposition temperature** : No information found

10. Stability and Reactivity



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- Reactivity** : Product is chemically stable.
- Chemical Stability** : Stable
- Hazardous Decomposition Products** : Under fire conditions, carbon monoxide/dioxide, nitrogen oxide/dioxide, hydrogen chloride, halogenated hydrocarbons, hydrocarbons, sulfur oxides.
- Hazardous Polymerization** : Will not occur
- Conditions to Avoid** : Avoid all sources of ignition, prolonged storage, electrostatic discharge, contamination, extreme temperatures.
- Incompatible Materials** : Strong oxidizing agents.

11. Toxicological Information

- Acute Toxicity (Oral LD50)** : Between 500 to 2,000 mg/kg (female rat). Harmful if swallowed.
- Acute Toxicity (Dermal LD50)** : >4,000 mg/kg (rat). Not classified as hazardous under 29 CFR 1910.1200 (2012).
- Acute Toxicity Inhalation LC50** : >2.2 mg/L/4 hours. Not classified as hazardous under 29 CFR 1910.1200 (2012).
- Likely Routes of Exposure** : Ingestion, inhalation, skin, eyes
- Skin Irritation** : Not classified as hazardous under 29 CFR 1910.1200 (2012).
- Eye Irritation** : Not classified as hazardous under 29 CFR 1910.1200 (2012).
- Skin Sensitization** : Sensitizing (guinea pig). May cause an allergic skin reaction.
- Carcinogenic** : This mixture has not been tested. Contains naphthalene, IARC Group 2B: Suspected of causing cancer.
- Chronic Effects** : May cause damage to organs through prolonged or repeated exposure (Specific Target Organ - Repeated Exposure).
- Other Hazards** : Individuals with pre-existing diseases of the respiratory system, skin or eyes may have increased susceptibility to excessive exposures.

12. Ecological Information

- Ecotoxicity** : Acutely toxic for fish. Acutely toxic for aquatic invertebrates. Acutely toxic for aquatic plants.
- Persistence and Degradability** : Not readily biodegradable.
- Bioaccumulative Potential** : No information found.
- Mobility in Soil** : Following exposure to soil, the product trickles away and can, dependant on degradation, be transported to deeper soil areas with larger water loads (for atrazine).
- Other Adverse Effects** : The ecological data given are those of the active ingredient(s). Do not release untreated into natural waters.

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.



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14. Transport Information

UN Proper Shipping Name : Not regulated by DOT in containers < 1,618 gallons.
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : Reportable Quantity (RQ) = 100 lbs/1,618 gallons for Naphthalene.
Transport in Bulk : If shipped in single package >= 1,618 gallons, ship as: RQ, UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Naphthalene), 9, PG III "ERG # 171"
Special Precautions for Transportation : No information found
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: 1
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 : 7969-192-5905

FIFRA Signal Word : Caution

FIFRA Label Statement : Restricted Use Pesticide Due to Ground and Surface Water Concerns.

FIFRA Label Statement : Keep out of reach of children. Harmful if swallowed.

FIFRA Label Statement : Harmful if absorbed through skin. Causes moderate eye irritation.

FIFRA Label Statement : Avoid contact with eyes, skin and clothing. Wear protective eyewear.

FIFRA Label Statement : Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before

FIFRA Label Statement : eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

FIFRA Label Statement : Prolonged or repeated exposure may cause allergic reactions in some individuals.

16. Other Information

Data of Preparation/Revision : 02-November-2015



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