



Safety Data Sheet

Report Date 02-Nov-15

Page 1 of 6

1. Identification

Product Name : SORTIE ATZ LITE
Synonyms : None
Product Use : Dimethenamid+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 : Danger
Skin Irritation : Causes skin irritation
Eye Irritation : Causes eye irritation
Acute Toxicity Oral : LD50 >500 to <2,000 mg/kg (rat)
Acute Toxicity Dermal : LD50 >4,000 mg/kg
Hazard Categories : Oral/Dermal/Inhalation Tox-4/5/5; Eye/Skin Irr-2B/2; Skin Sensitizer-1B; Aspiration-1; Carcinogen-2
Hazard Statement : Harmful if swallowed
May be harmful in contact with skin
Causes eye irritation
Causes skin irritation
May be harmful if inhaled
May cause an allergic skin reaction
Suspected of causing cancer
May be fatal if swallowed and enters airways

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Atrazine	1912-24-9	29.5
(S)-dimethenamid	163515-14-8	24.1
Ethylene Glycol	107-21-1	<5.0
Naphthalene, 2-methyl-	91-57-6	<1.0



Safety Data Sheet

Report Date 02-Nov-15

Page 2 of 6

Naphthalene	91-20-3	<1.0
Naphthalene, 1-methyl-	90-12-0	<1.0
Proprietary ingredients	Nonhazardous	<38.7

4. First Aid Measures

- Eye** : Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center or physician for treatment advice.
- Skin** : Remove contaminated clothing. Rinse skin immediately with plenty of water. Call a poison control center or physician for treatment advice.
- Inhalation** : Move person to fresh air. If not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or physician for treatment advice.
- Ingestion** : Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Never induce vomiting or give anything by mouth if the victim is unresponsive or having convulsions.
- Indication of Immediate Medical Attention and Special Treatment Needed** : Treat according to symptoms (decontamination, vital functions). No known specific antidote.

5. Fire Fighting Measures

- Extinguishing Media** : Foam, dry powder, carbon dioxide or water spray.
- Specific Hazards Arising from the Chemical** : Carbon monoxide, carbon dioxide, hydrogen chloride, halogenated hydrocarbons, hydrocarbons, nitrogen oxides, sulfur oxides. If product is heated above decomposition temperature, toxic vapors will be released.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing. Collect contaminated fire fighting water. Do not allow water to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water as required by law.

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-approved TC23C air-purifying respirator for particles/gas/vapors. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Dike spillage. Spilled substance/product should be recovered and applied according to label rates whenever possible.
- Methods and Materials for Containment and Cleanup** : If application of spilled product is not possible, then spills should be contained, solidified and placed in suitable containers for proper disposal. Pick up with suitable absorbent material. Place in suitable containers for disposal or reuse. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.



Safety Data Sheet

Report Date 02-Nov-15

Page 3 of 6

7. Handling and Storage

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 : 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. Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials. Protect from temperatures below 0 Degrees C. and above 40 Degrees C. Changes in the properties of the product may occur if stored above indicated temperature for extended periods of time.

8. Exposure Controls / Personal Protection

TLV/PEL : Naphthalene: PEL=10 ppm, 50 mg/m³; TLV=10 ppm.

Appropriate Engineering Controls : Whenever possible, 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-approved TC23C air-purifying respirator for particles/gas/vapors. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

Odor/Appearance : White liquid with sweetish moderate odor.

Flash Point, °F : >94 Degrees C.

Boiling Point, °F : 100 Degrees C. (approx)

Melting Point(Freezing point), °C : 0 Degrees C. (approx)

Vapor Pressure, mm Hg @ 20 °C : <1 mmHg

Vapor Density : No information found

Solubility in Water : Dispersible

Molecular Formula : Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.115-1.130

Evaporation Rate(Butyl Acetate = 1) : No information found

Octanol/Water Partition Coefficient : No information found

pH : 3.6

Flammable Limits (approximate volume % in air) : No information found

Auto-ignition Temperature : Not determined

Decomposition temperature : No information found



Safety Data Sheet

Report Date 02-Nov-15

Page 4 of 6

10. Stability and Reactivity

- Reactivity** : Product is chemically stable.
- Chemical Stability** : Stable
- Hazardous Decomposition Products** : Thermal decomposition: carbon monoxide/dioxide, hydrogen chloride, halogenated hydrocarbons, sulfur dioxide, nitrogen oxides, hydrocarbons.
- Hazardous Polymerization** : Will not occur
- Conditions to Avoid** : Avoid nitric acid, sulfuric acid, strong oxidizing agents.
- Incompatible Materials** : Nitric acid, sulfuric acid, strong oxidizing agents.

11. Toxicological Information

- Acute Toxicity (Oral LD50)** : >500 mg/kg to <2,000 mg/kg (rat). Harmful if swallowed.
- Acute Toxicity (Dermal LD50)** : >4,000 mg/kg (rat). May be harmful in contact with skin.
- Acute Toxicity Inhalation LC50** : 5.1 mg/L/4 hour (aerosol). May be harmful if inhaled.
- Likely Routes of Exposure** : Inhalation, skin, ingestion, eyes
- Skin Irritation** : Causes skin irritation.
- Eye Irritation** : Causes eye irritation.
- Skin Sensitization** : Caused skin sensitization in animal studies. May cause an allergic skin reaction.
- Carcinogenic** : This mixture has not been tested. Contains naphthalene, IARC Group 2B: Suspected of causing cancer.
- Chronic Effects** : There is no indication that either active ingredient (atrazine, dimethenamid-P) are mutagenic or caused reproductive toxicity.
- Other Hazards** : Aspiration Hazard - May be fatal if swallowed and enters airways.

12. Ecological Information

- Ecotoxicity** : Dimethenamid-P: Fish (acute) 10.0 to 12.0 mg/L; Aquatic plants Algae/EC50 0.38 mg/L to 34 mg/L; Non-Mammals, bobwhite quail/LD50 1,068 mg/kg. Atrazine: Fish (Acute) 5.3 mg/l to 42 mg/L; Daphnia magna (Acute) LC50 87 mg/L.
- Persistence and Degradability** : Not readily biodegradable.
- Bioaccumulative Potential** : No information found
- Mobility in Soil** : No information found
- Other Adverse Effects** : No information found

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.



Safety Data Sheet

Report Date 02-Nov-15

Page 5 of 6

14. Transport Information

UN Proper Shipping Name : Not regulated by DOT unless in containers >4,366.8 gallons.
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : Reportable Quantity (RQ), Naphthalene = 100 lbs/>4,366.8 gallons.
Transport in Bulk : If a single package >4,366.8 gallons is shipped, 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 : 7969-200-5905

FIFRA Signal Word : Warning

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

FIFRA Label Statement : Causes skin irritation. Do not get on skin or on clothing.

FIFRA Label Statement : Harmful if absorbed through the skin, swallowed or inhaled.

FIFRA Label Statement : Causes moderate eye irritation. Avoid contact with eyes. Wear gloves and 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 frequent repeated skin contact may cause allergic reactions in some individuals.

16. Other Information



Safety Data Sheet

Report Date 02-Nov-15

Page 6 of 6

Data of Preparation/Revision : 02-November-2015