



Safety Data Sheet

Report Date 01-Nov-15

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1. Identification

Product Name : SORTIE
Synonyms : None
Product Use : Dimethenamid-p 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 : Slightly irritating (rabbit)
Eye Irritation : Moderately irritating (rabbit)
Acute Toxicity Oral : LD50 695 mg/kg (rat)
Acute Toxicity Dermal : LD50 >5,000 mg/kg (rat)

Hazard Categories : Oral Toxicity-4; Eye/Skin Irritation-2A/2; Skin Sensitization-1; Aspiration Hazard-1; Carcinogen-2

Hazard Statement : Harmful if swallowed
Causes serious eye irritation
Causes skin irritation
May cause an allergic skin reaction
May be fatal if swallowed and enters airways
Suspected of causing cancer

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
(S)-dimethenamid	163515-14-8	63.1
Naphthalene	91-20-3	</=3.0
Solvent Naphtha	64742-94-5	</= 20.0
Nonhazardous	Nonhazardous	</=13.9



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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 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 person to fresh air. If person is 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 induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
- Indication of Immediate Medical Attention and Special Treatment Needed** : Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

5. Fire Fighting Measures

- Extinguishing Media** : Use foam, carbon dioxide, water spray or dry extinguishing media.
- Specific Hazards Arising from the Chemical** : If heated above decomposition temperature, toxic vapors will be released.
- 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, 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 spilled product. If possible, recover spilled product and apply according to label rates.
- Methods and Materials for Containment and Cleanup** : If application of spilled product is not possible, contain, solidify and place in containers for proper disposal. Pick up with suitable absorbent material. Place in suitable containers for reuse or disposal. Spill area can be washed with water. Collect wash water for approved disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Do not contaminate water, food or feed by storage, disposal or handling. Open dumping is prohibited.



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Conditions for Safe Storage : Do not use or store near heat or open flame. Store in original container in a well-ventilated area separately from fertilizer, feed or foodstuffs and away from other pesticides. Avoid cross-contamination with other pesticides. Groundwater contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material.

8. Exposure Controls / Personal Protection

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

Appropriate Engineering Controls : Use engineering controls 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 : Dark brown liquid with strong aromatic odor.

Flash Point, °F : 105 Degrees C. (approximate)

Boiling Point, °F : 204 Degrees C. (approximate)

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

Vapor Pressure, mm Hg @ 20 °C : <1 mmHg @ 25 Degrees C.

Vapor Density : Not applicable

Solubility in Water : Emulsifiable

Molecular Formula : Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.13 (approximate)

Evaporation Rate(Butyl Acetate = 1) : No data available

Octanol/Water Partition Coefficient : No data available

pH : 3.1 (approximate)

Flammable Limits (approximate volume % in air) : No data available

Auto-ignition Temperature : Not determined

Decomposition temperature : No data available

10. Stability and Reactivity

Reactivity : No hazardous reactions under normal use/handling.

Chemical Stability : Stable

Hazardous Decomposition Products : Nitrogen oxides, sulfur oxides, aldehydes.

Hazardous Polymerization : Will not occur



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- Conditions to Avoid** : Avoid all sources of ignition, prolonged storage, electrostatic discharge, contamination, extreme temperatures.
- Incompatible Materials** : Nitric acid, sulfuric acid, oxidizing agents, strong alkalies.

11. Toxicological Information

- Acute Toxicity (Oral LD50)** : 695 mg/kg (rat). Harmful if swallowed.
- Acute Toxicity (Dermal LD50)** : >5,000 mg/kg (rat). Not classified as toxic due to skin absorption.
- Acute Toxicity Inhalation LC50** : >5.6 mg/L/4 hour. Not classified as toxic due to inhalation.
- Likely Routes of Exposure** : Inhalation, ingestion, eyes, skin.
- Skin Irritation** : Causes skin irritation.
- Eye Irritation** : Causes serious eye irritation.
- Skin Sensitization** : Caused skin sensitization in guinea pigs. May cause an allergic skin reaction.
- Carcinogenic** : This mixture has not been tested. Contains naphthalene, IARC Group 2B: Suspected of causing cancer.
- Chronic Effects** : No substance specific organ toxicity was observed after repeated administration to animals.
- Other Hazards** : Aspiration hazard - May be fatal if swallowed and enters airways. 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 to fish. Acutely harmful to aquatic invertebrates. Very toxic (acute) to aquatic plants.
- Persistence and Degradability** : No information found.
- Bioaccumulative Potential** : (S)-dimethenamid: Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.
- Mobility in Soil** : (S)-dimethenamid: Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.
- 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.

14. Transport Information

- UN Proper Shipping Name** : Not regulated by DOT in single package sizes <349 gallons.
- Transport Hazard Class** : None



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UN Identification Number : None
Packaging Group : None
Environmental Hazards : Not a Marine Pollutant per 49 CFR 172.101, Appendix B. Reportable Quantity (RQ), Naphthalene = 100 lbs/349 gallons.
Transport in Bulk : If shipped in single package \geq 349 gallons, ship as: RQ, UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (Naphthalene), 9, PG III
Special Precautions for Transportation : If shipped by air (IATA) or water (IMDG), ship as: UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (contains Dimethenamid-P), 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: 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: N
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 : 7969-156-5905

FIFRA Signal Word : Warning

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement : Causes substantial but temporary eye injury.

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

FIFRA Label Statement : Do not get in eyes or on clothing.

FIFRA Label Statement : Avoid contact with skin.

FIFRA Label Statement : Avoid breathing spray mist.

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

16. Other Information

Data of Preparation/Revision : 01-November-2015