



SAFETY DATA SHEET

MonarchChem LLC

Product Name: LONARCH™ Herbicide Concentrate

Issue Date: 1/20/21

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MonarchChem LLC encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

SECTION 1-IDENTIFICATION:

PRODUCT NAME: LONARCH™ HERBICIDE COMMERCIAL GRADE CONCENTRATE

EPA Registration No.

Registration not required in accordance with EPA exemption from registration as a pesticide for citric acid, anionic surfactants under EPA Minimum Risk Pesticide, FIFRA 25(b)

Recommended use of the chemical and restrictions on use

Identified uses: End use herbicide product.

COMPANY IDENTIFICATION:

MonarchChem LLC
18075 Vaughn Road
Summerdale, AL 36580
United States

Customer Information Number:
Chemtrec Transport Emergency

1-713-702-3000
1-800-424-9300

SECTION 2-HAZARDS IDENTIFICATION:

Emergency Overview:

Appearance & Odor: Light brown for identification when applied. Slight to no odor

Potential Health Effects:

Likely routes of exposure: Skin contact, eye contact, inhalation.

Eye Contact Short Term: Causes temporary eye irritation.

Skin Contact Short Term: Causes minor skin Irritation if not removed by washing.

Inhalation Short Term: Not expected to produce adverse effects when recommended use instructions followed.



SECTION 3-COMPOSITION

| COMPONENT | CAS NO. | % BY WT. (APPROXIMATE) |
|-----------------------|-----------|------------------------|
| Sodium Lauryl Sulfate | 151-21-3 | < 30% |
| Citric Acid | 77-92-9 | Trade secret |
| Malic Acid | 6915-15-7 | Trade secret |
| Sodium Chloride | 7647-14-5 | Trade secret |
| Castor Oil | 8001-79-4 | Trade Secret |
| Water | None | Trade Secret |

SECTION 4 - FIRST AID MEASURES

Eye Contact

Immediately flush with water for 15 minutes
Remove eye contacts.
Seek medical advice if symptoms continue.

Skin Contact

If this chemical contacts the skin, flush the contaminated skin with water
Remove affected clothing, jewelry.
Wash affected clothing before reuse.

Inhalation

Remove to fresh air.

Ingestion

Immediately offer water to drink.
DO NOT induce vomit unless directed by medical professional.
If symptoms persist, seek medical attention



SECTION 5 – FIRE FIGHTING MEASURES

Flash Point: N/A
Specific Hazards: N/A
Extinguishing Media: N/A
Unusual Fire & Explosion Hazards: None
Hazardous Products of Combustion: None

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection equipment as identified in Section 8
Environmental Precautions:

SMALL QUANTITIES: Low environmental hazard
LARGE QUANTITIES: Minimize spread; keep out of drains.
Decomposition products not harmful to environment.

Methods for Clean Up: SMALL QUANTITIES: Flush area with water
LARGE QUANTITIES: Collect in containers; use absorbents, flush residual.

SECTION 7 – HANDLING AND STORAGE

Handling

Precautions For Safe Handling:

Provide good ventilation to prevent formation of vapor. Avoid breathing vapors, contact with eyes, skin and clothing. Wash contaminated clothing before reuse. Avoid contact with skin & eyes.
Do not drink or eat when using product.
Wash hands after use.
Clean, wash containers of residuals.
Observe all labels, safeguards.
Use personal protective equipment (goggles and rubber gloves.)



Storage

Store in cool, dry place

Compatible materials for storage: plastic stainless steel, painted mild steel.

Incompatible materials for storage: aluminum, galvanized steel (zinc coating)

Keep product away from children, pets, food, drinks.

Store only in original container; do not remove labels.

Minimum shelf life: 5 years

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: Operations with potential for generating high concentrations of fumes should be evaluated and controlled as necessary.

Exposure Limits: No permissible exposure limits (PEL) or threshold limit values (TLV)

Appropriate engineering controls: Emergency eye wash stations should be available in the immediate vicinity. General room ventilation should be maintained for operator comfort. Local exhaust ventilation may be necessary to control any air contaminants to stay within their TLVs during the use of this product.

Hand protection: Wear protective gloves for handling. Eye protection: Wear eye protection for handling. Use goggles or face shield.

Skin and body protection: General protective clothing (long sleeve shirt, long pants shoes, and socks). Respiratory protection: When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection. Under normal use conditions, with adequate ventilation, no special handling equipment is required.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Odor: None

Odor threshold: No data available

pH: 2.1 - 2.8

Melting point: 32F

Boiling point: 215F @ 760 mm Hg and 100 grain

Flash point: Does not flash

Evaporation rate: No data available

Flammability (solid, gas): N/A

Upper/Lower Explosive Limit: N/A

Vapor pressure: 1.4 mm Hg @ 300 grain and 70F

Relative vapor density at 20 C: 2.1 (Air = 1)

Relative density: 1.01 to 1.01 (water = 1)

Density: 1.01 to 1.01 kg/L



SECTION 9 CONTINUED

Solubility: Complete
Partition coefficient: No data available
Auto-ignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: 0.89

SECTION 10 – STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable
INCOMPATIBILITY TO OTHER SUBSTANCES NO REACTIVITY AND UNDER WHAT CONDITIONS: Not Applicable

HAZARDOUS DECOMPOSITION PRODUCTS: Not Applicable

SECTION 11 – TOXICOLOGY AND INFORMATION

Routes of entry: Inhalation, ingestion and skin contact
Symptoms (acute): Respiratory irritation
Delayed effects: No data available
Acute Toxicity: No toxic effects are likely (other than contact-site irritation/damage).
Skin corrosion/irritation: Solutions of 3.3% and 10% produced primary dermal irritation index (PDII) scores of 0.5 and 1.1, respectively, when tested with rabbits. Irritating to the nose, throat, and respiratory tract. Avoid breathing vapors or mists.
Serious eye damage/irritation: If not removed promptly, will injure eye tissue, which may result in permanent damage to cornea, including blindness.
Carcinogenicity: No evidence of a carcinogenic effect
Mutagenicity: No evidence of a mutagenicity effect
Teratogenicity: No evidence of a teratogenicity effect
Sensitization: No evidence of a sensitization effect
Reproductive: No evidence of a Reproductive effect



SECTION 12 – ECOLOGICAL INFORMATION

Overview: This material is not expected to be harmful to the environment
Persistence and degradability: Biodegrade readily under aerobic and anaerobic conditions.
Bioaccumulation: No tendency to bioaccumulate.
Mobility in soil: No data
Other adverse effects: No data
Acute or chronic toxicity to aquatic organisms: The low pH may result in acute ecotoxicity effects to organisms.

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 – TRANSPORTATION INFORMATION

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

UN/NA NUMBER:..... None
PROPER SHIPPING NAME: Non-Regulated
HAZARD CLASS..... None
PACKAGING GROUP None
LETTER None
ENVIRONMENTAL HAZARD: None Known
REPORTABLE QUANTITY..... None



SECTION 15 – REGULATORY INFORMATION

LONARCH primary chemical is Sodium Lauryl Sulfate exempt from registration by the EPA as a pesticide under EPA Minimum Risk Pesticide, FIFRA 25(b)

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System. This SDS complies with 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD). **IMPORTANT:** Read this SDS before handling & disposing of this product. Pass this information on to employees, customers, & users of this product.

EPA SRA Title III Chemical Listings:

- 25b Exemption**..... All products listed are exempt from listing with EPA
- SECTION 302**Not Listed
- SECTION 304**Not Listed
- SECTION 312**Not Listed
- SARA SECTION 313**Not Listed

SECTION 16 – OTHER INFORMATION

The information is furnished without warranty, expressed, or implied, except that it is accurate to the best of the preparer’s knowledge. The data on this sheet are related only to the specific material designated herein.

Prepared by: MonarchChem LLC

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