

DPI ASR
Alkali Silica Reactivity Prevent
Safety Data Sheet



DarCole Products, Inc.

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“Concrete Additives for Cement Attitudes”

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY INFORMATION

Product Identification

- Trade Name: **DPI ASR Prevent**
- Common Use: Lithium Nitrate Alkali Reactivity Mitigating Concrete Admixture
- Restriction on Use: Intended for industrial and professional users
- CAS#: Mixture

Company Information

- DarCole Products, Inc.
1940 Hwy 41 S
Sebree, KY 42455
270-826-6499

Emergency Number-(serviced 24 hours)

- CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

Classification of substance or mixture:

Eye Irritation	Category 2A	Causes serious eye irritation
Specific Organ Toxicity(single exposure)	Category 3	May cause respiratory irritation
Acute Toxicity (oral)	Category 4	May be harmful if swallowed
Skin Irritation	Category 2	Causes skin irritation

Label Elements: This material requires a hazard warning label in accordance with GHS criteria.



Pictogram:

Signal Word: **WARNING**

Hazard Statement(s):

H335: May cause respiratory irritation

H303: May be harmful if swallowed

H319: Causes serious eye irritation

H315: Causes skin irritation

Precautionary statement(s):

P280: Wear eye protection/face protection

P264: Wash with plenty of water and soap thoroughly after handling

Precautionary statements (response):

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention

P312: Call poison center or physician if you feel unwell

P302+P352: IF ON SKIN: Wash with plenty of soap & water

P332+P313 If skin irritation occurs: Get medical advice

P362: Take off contaminated clothing and wash before reuse

Hazards not otherwise classified: Not applicable

Additional classifications:

HMIS Ratings (scale 0-4)

Health-1 Slight

Fire- 0 Minimal

Reactivity- 0 Minimal

3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Per 2012 OSHA Hazard Communication Standard 29 CFR1910.1200

Components:		
Chemical Name:	CAS#:	Content
Lithium Nitrate	7790-69-4	30-40%

4. FIRST AID MEASURES

Skin: Remove contaminated clothing. Wash affected area thoroughly with soap and water. If irritation persists, seek medical attention.

Inhalation: Move person away from exposure. If having difficulty breathing, administer oxygen. If breathing has stopped, administer artificial respiration and seek medical attention.

Eyes: Flush eyes with water lifting upper and lower lids occasionally for 15 minutes. If irritation persists, seek medical attention.

Ingestion: Contact physician or Poison Control Center (PCC) immediately. Do NOT induce vomiting unless instructed to do by physician or PCC.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use extinguishing media suitable for surrounding fire

Unsuitable extinguishing media: Water jet

Specific hazards in case of fire: Carbon dioxide, carbon monoxide, harmful vapors, nitrogen oxides, fumes/smoke, carbon black

Special protective equipment required for firefighting: Wear self-contained breathing apparatus (SCBA)

Additional information for firefighters: None

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Prevent material from entering drains, septic systems, water sources, etc. by the use of dikes, absorbent materials and booms.

Personal precautions, protective equipment and emergency procedures:

- Wear appropriate PPE as needed
- Keep unprotected persons away

Material containment and clean up: Contain material with dikes. Vacuum up spilled material or use absorbent media. Remove spilled material to storage for proper disposal. Dispose of in accordance with local, state and federal regulations.

7. HANDLING AND STORAGE

Information about protections against explosions and fires: No special measures required if material is stored and used correctly

Precautions for safe handling: No special handling required if material is used correctly.

Information about safe storage: Protect material from temperatures under 20°F (-7°C)

Shelf Life: 18 months

8. EXPOSURE CONTROLS/PERSONAL PROTECTIONS

Additional information about exposure controls: No further data; see section 7

Components with limit values that require monitoring at the workplace: None

PPE (personal protective equipment) and hygienic measures:

- Wear ANSI approved safety glasses or goggles to protect eyes.
- Wear latex or rubber gloves to protect skin.
- Wash hands thoroughly before breaks and at end of work day.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information:

- Physical state: Liquid
- Color: Clear, white to yellowish
- Odor: None
- Odor Threshold: Not applicable

Physical Properties:

- pH value (@70°F): 7.00-9.50
- Specific gravity (@70°F): 1.000-1.300
- Bulk density: Not available
- Boiling point: 230°F/110°C
- Freezing point/Melting point: 32°F/0°C
- Decomposition temperature: Not available
- Vapor pressure: Not available
- Vapor density: Not available
- Evaporation rate: Not available
- VOC (w/w): 0%
- Solubility in / Miscibility with water: 100%
- Partition Coefficient (n-octanol/water): Not available
- Auto ignition: Material is not self-igniting
- Flash point: Material is non-flammable
- Lower/Upper Flammability Limits: Not applicable
- Viscosity: Not available
- Danger of Explosion: Material does not present an explosion hazard

10. STABILITY AND REACTIVITY

Material stability: Material is stable and not sensitive to mechanical impact. If water is allowed to evaporate, remaining solid in an oxidizer. Avoid contact with combustible materials.

Hazardous decomposition products: None expected during normal storage, handling and use

Incompatible materials to avoid: Strong Acids, strong bases, strong oxidizing agents. If water solvent evaporates, remaining solid is an oxidizing material. Contact with combustible materials may cause fire upon ignition from any source.

Possibility of hazardous reactions: None known

11. TOXICOLOGICAL INFORMATION

Routes for exposure for solids and liquids are ingestion and inhalation, but may include eye and skin contact.

Acute toxicity: This product has not been tested for toxicity. Toxicity is based on data derived from individual components.

- Dermal: non-irritating
- Inhalation: may cause respiratory irritation
- Ingestion: may be harmful if swallowed
- Corrosion/irritation: causes serious eye irritation

Chronic toxicity: This product has not been tested for toxicity. Based on the properties of the individual components, no adverse health effects are expected with intended use and appropriate handling.

- Repeated dose: based on available data, the classification criteria are not met
- Genetic: based on available data, the classification criteria are not met
- Carcinogenicity: based on available data, the classification criteria are not met
- Reproductive: based on available data, the classification criteria are not met
- Teratogenicity: based on available data, the classification criteria are not met

12. ECOLOGICAL INFORMATION

Based on available data, potential for environmental toxicity is low; however, discharge to the environment should be avoided.

Ecotoxicity: product is unlikely harmful to aquatic life

Persistence and degradability: product expected to degrade in one month or less

Bioaccumulative potential: there is no evidence to suggest bioaccumulation will occur

Mobility in soil: accidental spillage may lead to penetration in the soil and groundwater, however; there is no evidence that this would cause adverse ecological effects

13. DISPOSAL CONSIDERATIONS

In its manufactured form this material is not considered a hazardous waste. Dispose of in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

Material is not regulated for transport.

15. REGULATORY INFORMATION

- Sara 302 (extremely hazardous materials): not applicable
- Sara 311/312: Acute health hazard
- Sara 313: Not applicable
- TSCA: All components are listed or exempt

16. OTHER INFORMATION

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