

SAFETY DATA SHEET

HEAVY DUTY D-SCALE

Section 1. Identification

Product Identifier:	HEAVY DUTY D-SCALE (Organic Salts)
Product Code:	5242/5244
Product Type:	Liquid
Recommended Use:	Evaporative Cooler Descalant
Restrictions on Sale:	None

Distributor Details:

Dial Manufacturing Inc.
430 North 47th Avenue
Phoenix, AZ 85403
Tel: (602) 278-1100
24-Hour Emergency Telephone Number: INFOTRAC 1-800-535-5053

Section 2. Hazards Identification

OSHA/HCS Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the Substance or Mixture:

- Corrosive to Metals – Category 1
- Serious Eye Damage/Eye Irritation – Category 1
- Acute Toxicity (Oral) – Category 5

GHS Label Elements:



Signal Word: Danger

Hazard Statements:

- May be corrosive to metals
- Causes serious eye damage
- Harmful if swallowed

Precautionary Statements:

- **Prevention:**

Keep in original container. Wear eye protection. Wash hands thoroughly after handling.
Do not eat, drink, or smoke when using this product.

- **Response:**

Absorb spillage to prevent material damage.

IF SWALLOWED: Call a Poison Center or doctor if you feel unwell. Rinse mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention.

- **Storage:**

Store in corrosion-resistant containers such as polyethylene or polypropylene.

- **Disposal:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards Not Otherwise Classified: None known

Section 3. Composition/Information on Ingredients

Substance/Mixture: Mixture

Chemical Name	%	CAS Number
Organic Salt	1-33%	Proprietary
Surfactant Blend	.01-7%	Proprietary
Deionized Water	60-97%	7732-18-5

The chemical identity and exact percentage of the composition has been withheld as it is a trade secret.

There are no additional ingredients present which, within the current knowledge of the supplier and in concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Section 4. First Aid Measures

Eye Contact:

Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present. Seek medical attention.

Inhalation:

Move to fresh air. If symptoms persist, seek medical attention. If unconscious, place in recovery position and maintain open airway.

Skin Contact:

Wash skin with water for at least 15 minutes. Remove contaminated clothing. Seek medical attention if irritation persists.

Ingestion:

Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical attention.

Most Important Symptoms/Effects, Acute and Delayed:

- Eye Contact: Irritation, redness, watering
- Skin Contact: Mild irritation
- Ingestion: Irritation to mouth, throat, and stomach

Notes to Physician: Monitor for delayed symptoms due to potential exposure to decomposition products.

Section 5. Fire-Fighting Measures

Extinguishing Media:

Use extinguishing agent suitable for surrounding fire.

Specific Hazards Arising from the Chemical:

At temperatures above 60°C, acid action on metals may release hydrogen gas.

Hazardous Thermal Decomposition Products:

Carbon dioxide, carbon monoxide, nitrogen oxides, hydrochloric acid

Protective Equipment for Firefighters:

Wear SCBA and full protective gear.

Section 6. Accidental Release Measures

Personal Precautions:

Avoid contact with spilled material. Use PPE. Provide adequate ventilation.

Environmental Precautions:

Prevent entry into waterways, sewers, or soil.

Methods for Containment and Cleaning Up:

Absorb with inert material (e.g., sand, earth). Dispose per Section 13.

Section 7. Handling and Storage

Precautions for Safe Handling:

Use PPE. Avoid contact with eyes and skin. Do not ingest. Avoid breathing mist.

Conditions for Safe Storage:

Store in original container in cool, dry, well-ventilated area. Keep tightly sealed. Avoid incompatible materials.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits: None established

Engineering Controls:

General ventilation is sufficient.

Personal Protective Equipment (PPE):

- **Eye/Face Protection:** Chemical splash goggles
- **Hand Protection:** Chemical-resistant gloves
- **Body Protection:** Protective clothing
- **Respiratory Protection:** Not required under normal use

Section 9. Physical and Chemical Properties

APPEARANCE:	YELLOWISH LIQUID AMBER
ODOR:	Mild acidic
PH:	1.5-2.0
BOILING POINT:	>100°C
FLASH POINT:	>93°C
DENSITY:	>1.04 g/cm ³
SOLUBILITY:	Fully soluble in water
EVAPORATION RATE:	>1 (Butyl acetate = 1)
FLAMMABILITY:	Not available
VAPOR DENSITY:	>1 (Air = 1)

Section 10. Stability and Reactivity

Reactivity: No specific data

Chemical Stability: Stable under normal conditions

Possibility of Hazardous Reactions: None under normal use

Incompatible Materials: Chlorates, nitrates, hypochlorites, alkaline materials

Section 11. Toxicological Information

Acute Toxicity:

LD50 Oral (rat): >6200 mg/kg

Irritation/Corrosion:

- Eye: Irritant
- Skin: Mild irritation

Carcinogenicity:

Not listed by IARC, OSHA, NTP, or ACGIH

Mutagenicity:

Not mutagenic (OECD 471)

Teratogenicity:

No known effects

Section 12. Ecological Information

Aquatic Toxicity:

- LC50 (Ceriodaphnia dubia): >395 mg/L
- LC50 (Rainbow trout): >790 mg/L
- EC50 (Daphnia): >265 mg/L

Persistence/Degradability:

Readily biodegradable

Bioaccumulation: Not expected

Mobility in Soil: No data

Other Adverse Effects: None known

Section 13. Disposal Considerations

Dispose of product and container in accordance with local, regional, and national regulations. Do not release untreated product into sewer systems.

Section 14. Transport Information

UN Number:	1760
Proper Shipping Name:	Corrosive Liquid N.O.S. (organic salt)
Hazard Class:	8
Packing Group:	III
DOT Status:	Not regulated (exempt under 49 CFR 173.154(d))
Environmental Hazards:	No
Special Precautions:	Corrosive to aluminum only. Not corrosive to mild steel and skin

Section 15. Regulatory Information

- **TSCA:** All components listed or exempted
- **SARA 311/312:** Acute Health Hazard
- **California Prop 65:** No listed components
- **International Inventories:** All components listed or exempted in AICS, DSL, EINECS, ENCS, IECSC, KECL, NZIoC, PICCS, NECI

Section 16. Other Information

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Prepared by: Manufacturer

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