

MSDS

1 PRODUCT & COMPANY IDENTIFICATION

Product Name	ULTRAVIOLET SNOW & ICE MELT 2% BLEND
Cas #	7791-18-6,7647-14-5, 61048
Product Use	De-icer,
Manufacturer(s)	Dye: Organic Dystuffs Corporation P.O.Box 14258 East Providence, Rhode Island 02914-0258 Emergency Telephone #: 401-434-3300
	Calcuim Chloride: Scottwood Industries, Inc. 12980 Metcalf Ave. Ste. 240 Overland Park, KS 66213 800-844-2022
	Sodium Chloride: Broken Arrow 8960 N. HWY 40 Lakepoint, UT 84074 435-882-3942
	Salt Depot: Salt Depot 5442 Wells Park Road West Jordan, Utah 84084 801-608-5616
Supplier	ISIS Distributing Inc. 2997 Scandia Way Cottonwood Heights, Utah 84093 801-930-5528

2 HAZARDS IDENTIFICATION

Emergency Overview	CAUTION EYE & SKIN IRRITANT
Potential Short Term healt effects	
Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Eyes	May cause irritation.
Skin	May cause irritation.
Inhalation	Dusts of this product may cause irriation of the nose throat, and respiratory tract.
Ingestion	May cause stomach distress, nausea or vomiting.
Target Organs	Eyes. Skin. Respiratory system.
Chronic Effects	Prolonged or repeated exposure can cayuse drying, defatting and dermatitis
Signs and Symptoms	Symptoms may include redness,edema,drying,defatting and cracking of Skin. Sysptoms of overexposure may be headache, dizziness, tiredness, nausea and vomitting.

3 COMPOSITION/INFORMATION on INGREDIENTS

Ingredient(s)	CAS#	Percent
Calcuim chloride	010043-52-4	2 %
Sodium Chloride	7647-14-5	98 %
Anthraquinone Dye(Acid Violet dye)		

4 FIRST AID MEASURES

First Aid Procedures	
Eye Contact	Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists
Skin Contact	Flush with cool water. Wash with soap & water. Obtain medical attention if irriation persists.
Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Ingestions	Do not induce vomiting.Rinse mouth with water, then drink 1 to 2 glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious,or is convulsing.
Notes to Physician	Symptoms may be delayer
General advice	None Availible

5 FIRE FIGHTING MEASURES

Flamable properties	Not flammable by WHMIS/OSHA criteria
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Flash point & method	N.A		
Flamable limits	N.A		
Extinguishing Media			
Suitable extinguishing media	Treat for surround material, water spray, dry chemicals,foam or carbon dioxide.		
Unsuitable extinguishing media	Not Available		
Protection of FireFighters			
Specific hazards arising from the chemical	Not available		
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.		
Unusual Fire & Explosion Hazards	None expected, but avoid the build up of dye dust clouds which could be explosive.		
	NFPA FIRE HAZARDS	Minimal	0
	Health: 1	Slight	1
	Fire: 1	Moderate	2
	Reactivity: 0	Serious	3
	Specific: N.A.	Severe	4
6 ACCIDENTAL RELEASE MEASURES			
Personal precautions	Before attempting clean up,refer to hazard data given above.Use broom or dry vacuum to collect material for proper disposal without raising dust. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.		
Methods of containment	None Necessary		
Methods for cleaning up	Before attempting clean up,refer to hazard data given above.Use broom or dry vacuum to collect material for proper disposal without raising dust. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. Discard containers except for storage and shipment of original product.		
7 HANDLING & STORAGE			
Handling	Avoid breathing dusts from this material		
Storage	Keep out of reach of children. Keep containers tightly closed in a cool,well-ventilated place.		
8 EXPOSURE CONTROLS / PERSONAL PROTECTION			
Exspure Limits			
Ingredient(s)	Exposure Limits		
Sodium Chloride	ACGIH-TLV not established OSAH-PEL Not Established		
Calcuim chloride	ACGIH-TLV not established OSAH-PEL Not Established		
Engineering Controls	TWA PEL: No specifc limitshave been established for calcuim chloride & sodium chloride (a soluble substance). As a guideline, OSHA has established the following limits which are generally recognized for inert or nuisance dust. Particulates not otherwise regulated (PNOR): 5mg/cu.m. Respirable dust 8-hour TWA PEL, 15mg/cu.m. Total dust 8-hour TWA PEL. TWA TLV: No specifc limitshave been established for calcuim chloride & sodium chloride (a soluble substance). As a guideline, ACGIH has established the following limits which are generally recognized for inert or nuisance dust. Particulates not otherwise classified (PNOC): 10mg/cu.m. Respirable dust 8-hour TWA TLV, 15mg/cu.m. Total dust 8-hour TWA TLV. Use process enclosures, local exhaust ventalatation, or other engineering controls to control airborne levels below recommended exposure limits. If user operations generate dust, fumes or mist, useventilation to keep exposure to airborne contaminants below the exposure limits.		
Personal Protective equipment			
Eye/Face protection	Safety glasses		
Hand protection	Rubber gloves. Confirm with a repuatble supplier first.		
Skin & Body protection	As required by employer code		
Respiratory protection	Where exposure guideline may be exceeded, usean approved NIOSH respirator or NIOSH approved filtering facepiece		
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks & immediatley after handling product.		
9 PHYSICAL & CHEMICAL PROPERTIES			
Appearance	Crvstalline		

color	Purple
Form	Crystalline
Odor	Slightly aromatic
Odor Threshold	Not available
Physical State	Solid
pH	6-8 neutral
Melting Point	800.9 C (1473.8 F)
Freezing Point	Not available
Boiling Point	1413 C (2575.4 F)
Flash Point	Not available
Evaporation Rate	Not available
Flammability limits in air, lower,% by volume	Not applicable
Flammability limits in air, upper,% by volume	Not applicable
Vapor pressure	0.1 kPa (1 mmHg)@ 865 C
Vapor density	Not applicable
Specific gravity	2.17 (H ₂ O) @20 C
Relative density	2.17 g/cm ³
Octanol/Water coefficient	Not available
Solubility (H ₂ O)	36g/100g H ₂ O @ 20 C
Auto-ignition temperature	Not available
Percent volatile	0% w/w
Molecular weight	58.4400 g/mole
Molecular formula	NaCl, MgC ₁₂ H ₂₀

10 CHEMICAL STABILITY REACTIVITY INFORMATION

Chemical Stability	Stable under recommended storage conditions
Conditions to avoid	Do not mix with incompatible materials
Incompatible materials	Reactive with oxidizing agents, acids, metals in presence of moisture, lithium, bromine, trifluoride
Hazardous decomposition products	May include and are not limited to : Halogenated compounds. Hydrogen chloride
Possibility of hazardous reactions	

11 TOXICOLOGICAL INFORMATION

Component analysis-LC50	
Ingredients	LC50
Calcium chloride	Not available
Sodium Chloride	>21000 mg/m ³ rat
Component analysis-Oral LD50	
Ingredients	LD50
Calcium chloride, hexahydrate	8100 mg/kg rat; 7600 mg/kg mouse
Sodium Chloride	3000mg/kg rat
Effects of acute exposure	
Eye	May cause irritation
Skin	May cause irritation
Inhalation	Dust of this product may cause irritation of the nose, throat, & respiratory tract
Ingestion	May cause stomach distress, nausea or vomiting
Sensitization	Not classified or listed by IARC, NTP, OSHA, and ACGIH
Chronic effects	Not classified or listed by IARC, NTP, OSHA, and ACGIH
Carcinogenicity	Not classified or listed by IARC, NTP, OSHA, and ACGIH
Mutagenicity	Not classified or listed by IARC, NTP, OSHA, and ACGIH
Reproductive effects	Not classified or listed by IARC, NTP, OSHA, and ACGIH
Teratogenicity	Not classified or listed by IARC, NTP, OSHA, and ACGIH

12 ECOLOGICAL INFORMATION

Ecotoxicity	Maybe harmful to freshwater aquatic species and to plants that are not tolerant
Environmental effects	Not available
Aquatic toxicity	Not available
Persistence/Degradability	Not available
Bioaccumulation/ accumulation	Not available
Partition coefficient	Not available
Mobility in environmental media	Not available
Chemical fate information	Not available

13 DISPOSAL CONSIDERATIONS

Waste codes	Not available
Disposal instruction	Waste must be disposed of in accordance with federal, state, & local environmental controls
Waste from residues/unused products	Not available

Not available

14 TRANSPORTATION INFORMATION

Not regulated as dangerous goods

Not regulated as dangerous goods

15 REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the controlled products regulations and the MSDS contains all the information required by the Controlled products regulations and the MSDS contains all the information required by the Controlled This product is not know to be a "Hazardous Chemical" as defined by the OSHA hazard Communication Standard, 29 CFR 1910.1200.

CERCLA/SARA Hazardous Substances- Not Applicable

This product is not known to be a "Hazardous Chemical" as defined by the OSHA hazard Communication Standard, 29 CFR 1910.1200.
CERCLA/SARA Hazardous Substances- Not Applicable

29 CFR 1910.1200 hazardous chemical

No

None

Hazard Categories

Immediate Hazard- No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard -No
Reactivity Hzard - No
No

Section 302 Extremely hazardous substance

Section 311 hazardous chemical

No

Not available

Not available

Not available

Not available

Not available

Not Controlled

This product does not contain a chemical known to the State of California to cause cancer birth defects or other reproductive harm.

Country(s) or Region

Inventory Name

Canada

Domestic Substances List (DSL)

Canada

Non-Domestic Substances List (NDSL)

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

On Inventory (yes/No)*

YES

NO

YES

16 OTHER INFORMATION

DISCLAIMER

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so states. Since conditions of actual product are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.