

Safety Data Sheet

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SDS REVISION #: New

PRODUCT IDENTIFIER: BD-505

OTHER IDENTIFIERS: None

CHEMICAL FORMULA: Mixture

RELEVANT USES: Belt deicer

DISTRIBUTED BY: Lexycon LLC.
P.O. Box 8
Nitro, WV 25143

PHONE NUMBERS: Business - (304) 755-5737 (business hours)
CHEMTREC - (800) 424-9300 (transportation emergencies)

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:
Eye irritant (Category 2)

SIGNAL WORD:
Warning!



HAZARD STATEMENTS:
Causes serious eye irritation

PRECAUTIONARY STATEMENTS:

Prevention

Wear eye and face protection. Wash exposed areas thoroughly after handling.

Response

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical advice or attention.

Storage

Not applicable

Disposal

Not applicable

HAZARDS NOT OTHERWISE CLASSIFIED: None

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SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>%</u>	<u>CAS No.</u>
Calcium chloride	25-35	10043-52-4
1,2,3-Propanetriol	<10	56-81-5
Water	60-80	7732-18-5

SECTION 4 - FIRST AID MEASURES

IN CASE OF EYE CONTACT:

Immediately flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical advice or attention.

IN CASE OF SKIN CONTACT:

Flush with water.

IF SWALLOWED:

Do NOT induce vomiting. Drink two glasses of water. If irritation or nausea persists, contact a physician.

IF INHALED:

If affected, move to fresh air.

MOST IMPORTANT SYMPTOMS AND EFFECTS:

Can cause eye irritation, which may be severe.

NOTE TO PHYSICIAN:

Treat symptomatically

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

This product contains a large amount of water, and would not normally burn.



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SECTION 5 - FIRE FIGHTING MEASURES (continued)

EXTINGUISHING MEDIA:

Use water fog, foam, dry chemical or carbon dioxide as appropriate for other materials involved in the fire.

PROTECTION OF FIREFIGHTERS:

Keep personnel removed from and upwind. Wear full protective clothing and self-contained breathing apparatus with full face-piece. Cool containers with water.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PRECAUTIONS, PROTECTIVE EQUIPMENT & EMERGENCY PROCEDURES:

Persons not wearing protective equipment should be excluded from the area of the spill until cleanup has been completed.

CONTAINMENT & CLEAN-UP:

Dike area of spill to prevent spreading and pump liquid to salvage tank. Absorb remaining liquid on vermiculite, floor absorbent or other absorbent material and shovel into containers.

SECTION 7 - HANDLING AND STORAGE

HANDLING:

Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

STORAGE:

Keep in closed or covered containers when not in use. Calcium chloride can cause pitting and corrosion of some grades of stainless steel and under high temperatures and stress conditions can promote stress corrosion cracking.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

1,2,3-Propanetriol (CAS# 56-81-5)	OSHA PEL - 15 mg/M ³ (mist) OSHA PEL - 5 mg/M ³ (respirable fraction) ACGIH TLV - 10 mg/M ³ (mist)
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ENGINEERING CONTROLS:

Provide sufficient ventilation to maintain exposure below established exposure limits.

EYE / FACE PROTECTION:

Chemical splash goggles and full face-shield, in compliance with OSHA regulations, are advised.

Safety Data Sheet**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)****SKIN PROTECTION:**

Wear protective gloves such as Neoprene or Buna-N.

RESPIRATORY PROTECTION:

Not required under normal conditions of use; however, a NIOSH/MSHA approved respirator with organic vapor cartridge is recommended where there is insufficient ventilation to maintain exposure below established exposure limits.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Cloudy, blue liquid @
68° F (20° C)

Odor: Mild

pH: 4-9 (as is)

Freezing Point: Below -20° F (-28° C)

Initial Boiling Point: >212° F (100° C)

Flash Point: >212° F (100° C) PMCC

Evaporation Rate: Slower
(Ethyl Ether = 1)

Upper Explosion Limit: Not applicable

Lower Explosion Limit: Not applicable

Vapor Pressure: 17.5 @ 68° F (20° C) (water)

Vapor Density: Unavailable

Relative Density: ~1.26 @ 77° F (25° C)

Weight per gallon: ~10.5

Solubility in Water: 100%

Volatile %: 60-80

Autoignition Temperature: Unavailable

Decomposition Temperature: Unavailable

SECTION 10 - STABILITY AND REACTIVITY**REACTIVITY:**

Hygroscopic

STABILITY (conditions to avoid):

Stable under normal conditions of 70° F (21° C) and 14.7 psig (760 mm Hg)

POSSIBILITY OF HAZARDOUS REACTIONS:

May react violently in contact with strong oxidizers

CONDITIONS TO AVOID:

None known

INCOMPATIBLE MATERIALS:

Avoid contact with strong oxidizing and reducing agents

HAZARDOUS DECOMPOSITION PRODUCTS:

Not anticipated under normal conditions of use.

DECOMPOSITION:

None known

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SECTION 11 - TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE:

Skin and eye contact and inhalation

SYMPTOMS:

Eyes: Tearing, redness and irritation

Skin: Redness

Breathing: Breathing spray may result in mild respiratory irritation

Swallowing: Nausea

EFFECTS FROM EXPOSURE:

Immediate: Causes eye irritation

Delayed: None known

Chronic: None known

TOXICITY DATA (calcium chloride):

Oral LD₅₀ (rat) – 2301 mg/kg

Dermal LD₅₀ (rabbit) – 5000 mg/kg

Reverse mutation assay – negative

Mammalian chromosomal aberration – negative

Reproductive NOAEL (rabbit) – 169 mg/kg

Developmental studies (rat, mouse & rabbit) - negative

CARCINOGENICITY

This product is not reported to have any carcinogenic effects. This product (or components) is not listed in IARC Monographs, the current NTP Report on Carcinogens or the current ACGIH TLVs as a carcinogen or potential carcinogen. OSHA does not regulate it as a carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY (calcium chloride):

96-hr. LC₅₀ (freshwater fish) – 4630 mg/l

48-hr. EC₅₀/LC₅₀ (freshwater invertebrates) – 2400 mg/l

21-day EC₅₀/LC₅₀ or NOEC (freshwater invertebrates) – 320 mg/l

72-hr. EC₅₀/LC₅₀ (freshwater algae) – 2900 mg/l

48-hr. LC₅₀ (*Ceriodaphnia dubia*) – 2313.49 ppm

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SECTION 12 - ECOLOGICAL INFORMATION (continued)

PERSISTENCE AND BIODEGRADABILITY

Inorganic salt does not biodegrade, but quickly dissociates in water. The 1,2,3-propanetriol is expected to completely biodegrade.

BIOACCUMULATIVE POTENTIAL:

Not bioaccumulative

MOBILITY IN SOIL:

Chloride ions are mobile in soil, eventually draining into surface waters.

OTHER ADVERSE EFFECTS:

None known

SECTION 13 - DISPOSAL CONSIDERATIONS

Material that cannot be recovered or reused should be sent to a licensed disposal facility for drying and disposal in a landfill. Material collected on absorbent material may be deposited in a landfill in accordance with all applicable local, state and federal regulations.

This product, if disposed of, is not considered a hazardous waste under current RCRA definitions.

SECTION 14 - TRANSPORT INFORMATION

Not regulated under current U.S DOT, TDG (Canadian), ICAO (air) or IMO (water) transport regulations.

SECTION 15 - REGULATORY INFORMATION

TSCA INFORMATION:

All components in this product are in compliance with TSCA Inventory requirements or exempt from reporting.

CEPA:

All components in this product are listed on the Canadian Domestic Substances List (DSL).

SARA:

CERCLA/SARA 302: Not applicable

CERCLA/SARA 311/312: Acute

CERCLA/SARA 313: Not applicable



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SECTION 16 - OTHER INFORMATION

PREPARATION DATE: June 11, 2014

SUPERCEDES: Not applicable

REASON FOR REVISION: New SDS

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END OF REPORT