



ICE GUARD® LIQUID

Safety Data Sheet

EMERGENCY PHONE: 800-553-8011

Effective date: 06/01/2015

Print date: 5/29/2015

NFPA: Health 1, Fire 0, Reactivity 0

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1. IDENTIFICATION

PRODUCT NAME: ICE GUARD® LIQUID
CAS #: MIXTURE

MANUFACTURER: OSSIAN INC., 635 SOUTH ELMWOOD AVE, DAVENPORT, IOWA 52802
EMERGENCY PHONE: 800-553-8011

PRODUCT USE: Melting of Ice
USES ADVISED AGAINST: De-icing of concrete less than one year old.

2. HAZARD(s) IDENTIFICATION:

GHS CLASSIFICATION OF MIXTURE:

CONTACT HAZARD – SKIN:	Category 3 – Mild skin irritation.
CONTACT HAZARD – EYE:	Category 2B – Mild irritant.
ACUTE TOXICITY – INHALATION:	May cause irritation or coughing.
ACUTE TOXICITY – ORAL:	Category 4 – Harmful if swallowed.
ACUTE TOXICITY – DERMAL:	Category 5 – May be harmful in contact with skin

GHS LABELING PICTOGRAM:

GHS SIGNAL WORD:



WARNING

HAZARD STATEMENT: Non-toxic. No adverse health effects are anticipated with normal use of this product.

PRECAUTIONARY STATEMENT:

EYE CONTACT: May cause temporary eye irritation. Corneal injury is unlikely.
INHALATION: May cause irritation or coughing.
SKIN CONTACT: Repeated contact may cause slight skin irritation or dry skin.
INGESTION: Ingestion of large quantities may cause nausea, vomiting, diarrhea and abdominal discomfort.

OTHER HAZARDS: No other hazards known

3. COMPOSITION

SUBSTANCE/MIXTURE: Mixture.

CHEMICAL NAME
Potassium Acetate
Water
Organic Additive
Corrosion Inhibitors

CAS NUMBER
000127-08-2
007732-18-5
N/A
N/A

TECHNOLOGY: Organic Melting Agent covered under U.S. Patent.
Additional foreign and domestic patents may be pending.



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4. FIRST-AID MEASURES:

FIRST AID INHALATION: Remove to fresh air. Get medical attention for any breathing difficulty.

FIRST AID SKIN: Wash with soap and water. Obtain medical attention if irritation persists.

FIRST AID EYE: Flush gently with running water for at least 15 minutes.

FIRST AID INGESTION: If large amounts were swallowed give water to drink and get medical advice. Never give anything by mouth to an unconscious or convulsive person.

MOST IMPORTANT SYMPTOMS / EFFECTS

EYE: May cause eye irritation. Symptoms may include temporary discomfort or pain, excess blinking and tear production, with possible redness and swelling.

SKIN: May cause itching or irritation of any cut or abraded skin. Symptoms of prolonged contact may include dry skin.

INHALATION: Inhalation of aerosol during spraying may cause respiratory tract irritation and coughing. This product is not otherwise expected to be an inhalation hazard.

INGESTION: Ingestion of large quantities may cause nausea, vomiting, diarrhea and abdominal discomfort.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT

NOTE TO PHYSICIANS: This product contains potassium acetate. Though ingestion of large amounts of potassium salts usually results in vomiting, excessive potassium absorption can cause hyperkalemia.

SPECIFIC TREATMENTS: If you feel unwell, seek medical advice immediately. Show the label or safety data sheet to medical personnel if possible.

5. FIRE-FIGHTING MEASURES:

FLASH POINT: > 100°C

AUTOIGNITION TEMPERATURE: No data available

LOWER FLAMMABILITY LEVEL (air): Not applicable

UPPER FLAMMABILITY LEVEL (air): Not applicable

EXTINGUISHING MEDIA: Use extinguishing agents appropriate for surrounding fire.

FIRE-FIGHTING: Fire fighters should wear proper protective equipment, self-contained breathing apparatus with full face piece operated in positive pressure mode.

COMBUSTION PRODUCTS: Normal combustion forms carbon dioxide and water.



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6. ACCIDENTAL RELEASE MEASURES:

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

Avoid eye/skin contact with spilled material. Refer to Section 7 for handling precautions.

METHODS FOR CONTAINMENT: Contain and/or absorb spill with inert material (e.g. sawdust, sand, vermiculite).

METHODS FOR CLEANING-UP: Scoop up material and transfer to disposal container. If needed, wash spillage area with plenty of water.

7. HANDLING AND STORAGE:

SAFE HANDLING PROCEDURES: Avoid eye contact. Avoid breathing mist when spraying.

SAFE STORAGE PROCEDURES: Store in tightly sealed original containers, away from direct heat and strong oxidizing agents. Do not store or handle product in systems constructed of wetted parts consisting of galvanized steel, zinc, or brass components.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: No specific limits have been established for this product.

EXPOSURE CONTROLS: No special ventilation is usually necessary; however if operating conditions create high airborne concentrations of this material, special ventilation may be needed to keep exposure to airborne contaminants below the exposure limit.

INDIVIDUAL PROTECTIVE MEASURES/PERSONAL PROTECTIVE EQUIPMENT

EYE PROTECTION: Safety glasses or goggles are recommended if splashing/spraying is possible.

SKIN PROTECTION: No special skin protection is usually necessary. Chemical-resistant gloves and clothing should be used if prolonged exposure is possible to prevent drying of skin.

RESPIRATORY PROTECTION: No special respiratory protection is usually necessary. Breathing of mist/aerosol should be avoided. If operating conditions create high airborne concentrations of this material, the use of an approved respirator is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE / COLOR:	Brown colored liquid
pH (20° C):	10.5 -11.5
BOILING POINT:	~115° C
SPECIFIC GRAVITY (20° C):	1.28
EVAPORATION:	No Data Available
VAPOR PRESSURE (20° C):	17 mm Hg
PERCENT VOLATILE (VOLUME %):	No Data Available
VAPOR DENSITY (AIR = 1):	No Data Available
VISCOSITY (20° C):	6.5 cP (Potassium Acetate)
FREEZING POINT:	-60° C
SOLUBILITY:	Completely miscible in water



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10. STABILITY & REACTIVITY:

REACTIVITY:	No dangerous reactions known under conditions of normal use.
CHEMICAL STABILITY:	Stable. Polymerization will not occur.
POSSIBILITY OF HAZAROUS REACTIONS:	No dangerous reactions known under conditions of normal use.
CONDITIONS TO AVOID:	Avoid prolonged contact with reactive metals such as magnesium and zinc, especially in closed systems where hydrogen gas from the oxidation of these materials may accumulate over time.
INCOMPATIBLE MATERIALS:	Strong oxidizing agents; strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS:	May decompose into oxides of carbon.

11. TOXICOLOGICAL INFORMATION;

ACUTE TOXICITY:	LD50 rat-oral: > 5 g/kg
LIKELY ROUTES OF EXPOSURE:	Skin contact, eye contact, ingestion.
SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL, AND TOXICOLOGICAL CHARACTERISTICS	
EYE:	May cause eye irritation. Symptoms may include temporary discomfort or pain, excess blinking and tear production, with possible redness and swelling.
SKIN:	May cause itching or irritation of any cut or abraded skin. Symptoms of prolonged contact may include dry skin.
INHALATION:	Inhalation of aerosol during spraying may cause respiratory tract irritation and coughing. This product is not otherwise expected to be an inhalation hazard.
INGESTION:	Ingestion of large quantities may cause nausea, vomiting, diarrhea and abdominal discomfort.

12. ECOLOGICAL INFORMATION;

EXOTOXICITY (AQUATIC AND TERRESTRIAL)

Not expected to cause long-term adverse effects in the aquatic or terrestrial environments.

PERSISTENCE AND DEGRADABILITY:	Readily biodegradable.
COD (TOD):	0.32 g O ₂ /g deicer
BOD_s @ 20° C:	0.25 g O ₂ /g deicer
BIOACCUMULATIVE POTENTIAL:	Bioaccumulation is not expected.
MOBILITY IN SOIL:	Adverse effects not expected.
OTHER ADVERSE EFFECTS:	None expected.



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13. DISPOSAL CONSIDERATIONS: (See Section 14 for Regulatory Information)

WASTE TREATMENT AND METHODS OF DISPOSAL

Based on available information, this product is neither listed as a hazardous waste nor does it exhibit any of the characteristics that would cause it to be classified as a characterized hazardous waste under RCRA. This product may be absorbed onto suitable materials and disposed of in a sanitary landfill unless local, state, or provincial regulations prohibit such disposal.

14. TRANSPORT INFORMATION:

UNITED STATES DOT INFORMATION:

This product is not regulated by D.O.T. when shipped domestically by land.

CANADIAN TDG INFORMATION:

This product is not regulated by T.D.G. when shipped domestically by land.

15. REGULATORY INFORMATION: (Not meant to be all-inclusive- selected regulations represented)

D.O.T. PROPER SHIPPING NAME:	N/A
HAZARDOUS SUBSTANCE 49CFR CERCLA:	N/A
D.O.T. HAZARD CLASS	N/A
D.O.T. LABELS REQUIRED	N/A
D.O.T. PLACARDS REQUIRED	N/A

ALL OF THE COMPONENTS IN THIS PRODUCT ARE ON THE FOLLOWING INVENTORY LISTS:

U.S.A. (TSCA)
EUROPE (EINECS)
CANADA (DSL/NDL)

TSCA SECTION 12(b): None of the components in this product are regulated under TSCA Section 12(b).

OSHA HAZARD CLASSIFICATION: Hazardous Chemical (Irritant); None of the components in this product are considered highly hazardous by OSHA.

CERCLA HAZARDOUS SUBSTANCES: There is no CERCLA Reportable Quantity for this material.

SARA 311 CATEGORIES:

Immediate (Acute) Health Hazard:	Yes
Delayed (Chronic) Health Hazard:	No
Fire Hazard:	No
Sudden Release of Pressure Hazard:	No
Reactivity Hazard:	No

SARA 313: None of the components in this product are subject to reporting under SARA Section 313.

CLEAN WATER ACT: None of the components in this product are listed as Priority Pollutants under the CWA. None of the components in this product are listed as Toxic Pollutants under the CWA.



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STATE RIGHT-TO-KNOW:

This product does not contain components at levels which are required to be reported under the statutes of the following states: PA, MA, NJ. This product does not contain components known to the State of California (Proposition 65) to cause cancer and/or reproductive harm at levels which would require a warning under the statute.

WHMIS (Canada) CLASSIFICATION: Not controlled.

This product does not contain materials known to the State of California (Proposition 65) to cause cancer and/or reproductive harm at levels which would require a warning under the statute.

16. OTHER INFORMATION:

ADDITIONAL HEALTH DATA COMMENT:

This Safety Data Sheet contains environmental, health and toxicological information for your employees. Please make sure this information is given to them. It also contains information to help you meet community right-to-know / emergency response reporting requirements under SARA Title III and many other laws. If you resell this product, this SDS must be given to the buyer or the information incorporated in your SDS. Discard any previous edition of this SDS.

Latest version of this SDS can be found at <http://www.OSSIAN.com>

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OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in the Safety Data Sheet available to your employees.