

SAFETY DATA SHEET.

Issuing date 02-Aug-2017

Revision Date 01-Dec-2017

Version 1.01

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name 4611-4 DE ICER GALLONS

Recommended use of the chemical and restrictions on use

Product code F03262

Product Type Highly Flammable Liquid and Vapor
Synonyms None

Supplier's details

Recommended Use De-Icer.
Uses advised against No information available

Manufactured For:
Imperial Supplies LLC
789 Armed Forces Drive
P.O. Box 11008
Green Bay, WI 53407-1008
1-800-558-2808

Emergency telephone number

**Chemical Emergency Phone
Number** Chemtrec 1-800-424-9300

**Company Emergency Phone
Number** 1-900-558-2808

2. HAZARDS IDENTIFICATION

Classification

| | |
|--|------------|
| Acute Toxicity - Oral | Category 3 |
| Acute Toxicity - Dermal | Category 3 |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 3 |
| Specific target organ toxicity (single exposure) | Category 1 |
| Flammable Liquids | Category 2 |

GHS Label elements, including precautionary statements

Emergency Overview

DANGER

Hazard Statements

Toxic if swallowed

Toxic in contact with skin

Toxic if inhaled

Causes damage to organs (Eyes, Skin, Central Nervous, Respiratory System, Kidneys, Liver, Lungs, Bone Marrow, Blood, and Gastrointestinal Tract).

Highly flammable liquid and vapor



Appearance Clear

Physical state Liquid

Odor Solvent

Precautionary Statements - Prevention

Wear protective gloves/eye protection/face protection/protective clothing

Wash face, hands and any exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray.

Keep away from heat/sparks/open flames/hot surfaces.-No smoking.

Keep container tightly closed

Ground/Bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Precautionary Statements - Response

Specific treatment (see first aid on this label)

IF EXPOSED: Call a POISON CENTER or doctor/physician

IF ON SKIN: Wash with plenty of soap and water.

IF ON SKIN (or hair:)Take off immediately all contaminated clothing. Rinse skin with water/shower

IF INHALED : Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician

IF SWALLOWED: Immediately call a poison center/doctor

Rinse mouth

In case of fire: Use CO2, dry chemical, or foam to extinguish

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed.

Keep cool.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None

Other information

0% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

*** EMERGENCY OVERVIEW ***: Harmful if absorbed through skin. Poison! Vapor harmful. May be fatal if swallowed or cause blindness. Harmful if inhaled or absorbed through skin. Cannot be made nonpoisonous. Compositions containing >4% methanol must be labeled with skull & crossbones and bear the warning "Poison - cannot be made nonpoisonous. May be fatal or cause blindness if swallowed.".

| Chemical Name | CAS-No | Weight %* |
|------------------|---------|-----------|
| METHANOL | 67-56-1 | 90-100 |
| PROPYLENE GLYCOL | 57-55-6 | 1-10 |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**First aid measures for different exposure routes**

| | |
|-----------------------|--|
| General advice | Avoid contact with eyes, skin, and clothing. Avoid breathing vapors. |
| Eye contact | Immediately flush with plenty of water for at least 15 minutes. After initial flushing, remove any contact lenses and continue flushing. Seek immediate medical attention/advice. If symptoms persist, call a physician. |
| Skin contact | Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician. |
| Inhalation | Move to fresh air. If breathing is difficult, give oxygen. Artificial respiration and/or oxygen may be necessary. If breathing has stopped, contact emergency medical services immediately. |
| Ingestion | Call a physician or Poison Control Center immediately. Rinse mouth. Never give anything by mouth to an unconscious person. Risk of product entering the lungs on vomiting after ingestion. |

Most important symptoms/effects, acute and delayed

| | |
|----------------------|---|
| Main Symptoms | Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes damage to target organs. |
|----------------------|---|

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water fog. Dry chemical. Carbon dioxide (CO₂). Cool containers/tanks with water spray. Water Fog, Carbon Dioxide (CO₂), Foam, Dry Chemical .

Unsuitable Extinguishing Media Keep away from heat and sources of ignition. Do not smoke. Cool containers / tanks with water spray. Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition. Extremely Flammable / Flammable. Keep product and empty container away from heat and sources of ignition. Risk of ignition. In the event of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray.

Explosion Data

Sensitivity to Mechanical Impact none.

Sensitivity to Static Discharge Yes.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use with adequate ventilation to keep the exposure levels below the OELS. Follow safe handling advice and personal protective equipment recommendations.

Environmental precautions

Environmental precautions Vapors can accumulate in low areas. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Report spills as required by local and federal regulations. Should not be released into the environment.

Methods and materials for containment and cleaning up

Methods for Containment Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

Methods for cleaning up Soak up with inert absorbent material. Contain liquid and collect with an inter, non-combustible material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly . After cleaning, flush away traces with water. Prevent product from entering drains. Take precautionary measures against static discharges. Ground and bond containers when transferring material. Prevent product from entering drains.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Do not eat, drink, or smoke, when using this product. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Keep away from open flames, hot surfaces, and sources of ignition. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions Keep cool. Protect from sunlight. Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces, and sources of ignition. Keep in properly labeled containers. Keep out of the reach of children. Store locked up.

Incompatible products Strong acids, alkalis, oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---------------------|---|--|--|
| METHANOL 67-56-1 | STEL: 250 ppm TWA: 200 ppm Skin - potential significant contribution to overall exposure by the cutaneous route | TWA: 200 ppm TWA: 260 mg/m ³ (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m ³ (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m ³ (vacated) S* | IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 325 mg/m ³ |

ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration)

NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Exposure controls

Engineering Measures Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields.

Skin and body protection Chemical resistant apron. Protective gloves.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES**Physical and chemical properties**

| | | | |
|-----------------------|--------|-----------------------|---------|
| Physical state | Liquid | Odor | Solvent |
| Appearance | Clear | Odor Threshold | |
| Color | Blue | | |

| | | |
|------------------------------------|--------------------------|--------------------------|
| Property | Values | Remarks • Methods |
| pH | No information available | |
| Melting/freezing point | No information available | |
| Boiling point/boiling range | | |
| Flash Point | 12 °C / 54 °F | (based on components) |
| Evaporation rate | No information available | |

| | |
|--|--------------------------|
| Flammability (solid, gas) | No information available |
| Flammability Limits in Air | |
| upper flammability limit | |
| lower flammability limit | |
| Vapor pressure | |
| Vapor density | |
| Specific Gravity | 0.809 |
| Water solubility | None |
| Partition coefficient: n-octanol/water | |
| Autoignition temperature | No information available |
| Decomposition temperature | |
| Viscosity | No information available |
| Explosive properties | |

Other information

| | |
|----------------|------|
| VOC Content(%) | 97.5 |
|----------------|------|

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

Strong acids, alkalis, oxidizing agents.

Hazardous Decomposition Products

Carbon oxides , Hydrocarbons, Fumes.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

| | |
|--------------|---|
| Inhalation | Toxic by inhalation. . |
| Eye contact | Eye irritation may occur if excessive exposure to product occurs. |
| Skin contact | Toxic in contact with skin. |
| Ingestion | Toxic if swallowed. |

Component Information

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-----------------------------|----------------------|--------------------------|-------------------------|
| METHANOL 67-56-1 | = 6200 mg/kg (Rat) | - | = 22500 ppm (Rat) 8 h |
| PROPYLENE GLYCOL 57-55-6 | = 20 g/kg (Rat) | = 20800 mg/kg (Rabbit) | - |

Information on toxicological effects

Symptoms Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes damage to target organs.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Toxic if in contact with skin.
Eye damage/irritation Under normal conditions there is no eye irritation . Excessive conditions to product may cause eye irritation.
Sensitization Not a known sensitizer.
Germ Cell Mutagenicity Not a germ cell mutagen.
Carcinogenicity There are no known carcinogenic chemicals in this product.
Reproductive toxicity This product does not contain any known or suspected reproductive hazards.
Specific target organ systemic toxicity (single exposure) Causes damage to Target Organs listed below.
Specific target organ systemic toxicity (repeated exposure)
Chronic toxicity No known effect based on information supplied.
Target Organ Effects Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest.
Aspiration hazard Eye, Skin, Respiratory System, Central Nervous System, Liver, Kidneys, Blood, Bone Marrow, and Gastrointestinal Tract.
 May be harmful if swallowed and enters airways.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 102 mg/kg
ATEmix (dermal) 308 mg/kg
ATEmix (inhalation-dust/mist) 0.5 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to microorganisms | Toxicity to daphnia and other aquatic invertebrates |
|-----------------------------|--|---|----------------------------|---|
| METHANOL 67-56-1 | - | 28200 mg/L LC50 Pimephales promelas 96h flow-through 100 mg/L LC50 Pimephales promelas 96h static 19500 - 20700 mg/L LC50 Oncorhynchus mykiss 96h flow-through 18 - 20 mL/L LC50 Oncorhynchus mykiss 96h static 13500 - 17600 mg/L LC50 Lepomis macrochirus 96h flow-through | - | - |
| PROPYLENE GLYCOL 57-55-6 | 19000 mg/L EC50 Pseudokirchneriella subcapitata 96h | 51600 mg/L LC50 Oncorhynchus mykiss 96h static 41 - 47 mL/L LC50 Oncorhynchus mykiss 96h static 51400 mg/L LC50 Pimephales promelas 96h static 710 mg/L LC50 Pimephales promelas 96h | - | 1000 mg/L EC50 Daphnia magna 48h Static |

Persistence and degradability

Bioaccumulation

| Chemical Name | log Pow |
|---------------------|---------|
| METHANOL 67-56-1 | -0.77 |

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). Dispose of in accordance with federal, state, and local regulations.

Contaminated packaging Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT Ground CONSUMER COMMODITY ORM-D
or
LIMITED QUANTITY

IATA UN1230,METHANOL, 3(6,1),PGII

IMDG UN1230, METANOL, 3(6.1), PGII

15. REGULATORY INFORMATION

SCHEDULE B CODE: 3820.00.0000.

International Inventories

| Chemical Name | TSCA | DSL/NDL | EINECS/ELI NCS | ENCS | IECSC | KECL | PICCS | AICS |
|---------------------|------|---------|-------------------|------|-------|------|-------|------|
| METHANOL | X | X | X | X | X | X | X | X |
| PROPYLENE GLYCOL | X | X | X | X | X | X | X | X |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does contain a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | CAS-No | Weight %* | SARA 313 - Threshold Values % |
|--------------------|---------|-----------|-------------------------------|
| METHANOL - 67-56-1 | 67-56-1 | 97.498 | 1.0 |

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute Health Hazard | Yes |
| Chronic Health Star Hazard | Yes |
| Fire Hazard | Yes |
| Sudden Release of Pressure Hazard | Yes |
| Reactive Hazard | no |

Clean Water Act

This product does contain the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

CERCLA

This material, as supplied, does contain substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ |
|---------------------|--------------------------|------------------------------------|--|
| METHANOL 67-56-1 | 5000 lb | | RQ 5000 lb final RQ RQ 2270 kg final RQ |

U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:



This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

| Chemical Name | California Prop. 65 |
|--------------------|-----------------------|
| METHANOL - 67-56-1 | Developmental 90-100% |

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|-----------------------------|------------|---------------|--------------|
| METHANOL 67-56-1 | X | X | X |
| PROPYLENE GLYCOL 57-55-6 | X | | X |

EPA Pesticide Registration Number Not applicable

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

WHMIS Hazard Class

B2 Flammable liquid
D1A Very toxic materials
D2B Toxic materials

16. OTHER INFORMATION

| | | | | |
|-------------|------------------------|-----------------------|----------------------|--|
| NFPA | Health Hazard 2 | Flammability 4 | Instability 0 | Physical and chemical hazards - |
|-------------|------------------------|-----------------------|----------------------|--|

| | | | | |
|-----------------------------------|-------------------------|---|--------------------------|-------------------------------|
| HMIS | Health Hazard 2* | Flammability 4 | Physical Hazard 1 | Personal protection B |
| <i>Chronic Hazard Star Legend</i> | | <i>Chronic Health Star Hazard Repeated or prolonged exposure may cause damage</i> | | <i>central nervous system</i> |

| | |
|----------------------|--------------------|
| Prepared By | Regulatory Affairs |
| Issuing date | 02-Aug-2017 |
| Revision Date | 01-Dec-2017 |
| Revision Note | |

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet