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|--|--|---------------------------|
|  |  | Page: 1                   |
| <b>SAFETY DATA SHEET</b>   |  | Revision Date: 06/01/2016 |
|  |  | Print Date: 06/01/2016    |
|  |  | SDS Number: R0177148      |
| Pyroil™ De-Icer  |  | Version: 2.0              |
| PYDI11.5   |  |                           |

29 CFR 1910.1200 (OSHA HazCom 2012)

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

Trade name : Pyroil™  
De-Icer

### Recommended use of the chemical and restrictions on use

|  |   |
|--|---|
| <b>Details of the supplier of the safety data sheet</b><br>Niteo Products, LLC<br>P.O. Box 191629<br>Dallas TX 75219<br>United States of America | <b>Emergency telephone number</b><br>CHEMTREC DIRECT 1-800-424-9300<br><br><b>Product Information</b><br>1-844-696-4836 |
|--|---|

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Flammable aerosols : Category 2

Acute toxicity (Oral) : Category 3

Acute toxicity (Inhalation) : Category 3

Acute toxicity (Dermal) : Category 3

Specific target organ systemic toxicity - single exposure : Category 1 (Central nervous system, Eyes)


Specific target organ systemic toxicity - repeated exposure (Oral) : Category 2 (Kidney, Liver)

### GHS Label element

Hazard pictograms :   

Signal Word : Danger

Hazard Statements : Flammable aerosol.

|  |  |                           |
|--|--|---------------------------|
|  |  | Page: 2                   |
| <b>SAFETY DATA SHEET</b>   |  | Revision Date: 06/01/2016 |
|  |  | Print Date: 06/01/2016    |
|  |  | SDS Number: R0177148      |
| Pyroil™ De-Icer  |  | Version: 2.0              |
| PYDI11.5   |  |                           |

Toxic if swallowed, in contact with skin or if inhaled.  
 Causes damage to organs (Central nervous system, Eyes).  
 May cause damage to organs (Kidney, Liver) through prolonged or repeated exposure if swallowed.

**Precautionary Statements**

**: Prevention:**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 Do not spray on an open flame or other ignition source.  
 Pressurized container: Do not pierce or burn, even after use.  
 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.  
 Wash skin thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Use only outdoors or in a well-ventilated area.  
 Wear protective gloves/ protective clothing.

**Response:**

IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.  
 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician.  
 IF exposed: Call a POISON CENTER or doctor/ physician.  
 Take off contaminated clothing and wash before reuse.

**Storage:**

Store in a well-ventilated place. Keep container tightly closed.  
 Store locked up.  
 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Defatter

**Hazardous components**


| Chemical Name | CAS-No. | Classification  | Concentration (%) |
|---------------|---------|---|-------------------|
| METHANOL      | 67-56-1 | Flam. Liq. 2; H225<br>Acute Tox. 3; H301<br>Acute Tox. 3; H331<br>Acute Tox. 3; H311<br>STOT SE 1; H370 | 62.5              |

|  |  |                           |
|--|--|---------------------------|
|  |  | Page: 3                   |
| <b>SAFETY DATA SHEET</b>   |  | Revision Date: 06/01/2016 |
|  |  | Print Date: 06/01/2016    |
|  |  | SDS Number: R0177148      |
| Pyroil™ De-Icer  |  | Version: 2.0              |
| PYDI11.5   |  |                           |

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|-----------------|-----------|---------------------------------------|------|
| ETHYLENE GLYCOL | 107-21-1  | Acute Tox. 4; H302<br>STOT RE 2; H373 | 5.9  |
| CARBON DIOXIDE  | 124-38-9  | Press. Gas Liquefied<br>gas; H280     | 1.8  |
| WATER           | 7732-18-5 | Not classified                        | 29.8 |

#### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Move to fresh air.  
Call a physician or poison control centre immediately.  
Keep patient warm and at rest.  
If unconscious place in recovery position and seek medical advice.
- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.  
Wash contaminated clothing before re-use.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : Get medical attention immediately.  
Rinse mouth with water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : This product contains methanol which can cause intoxication and central nervous system depression. Methanol is metabolized to formic acid and formaldehyde. These metabolites can cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used to prevent methanol metabolism. Ethanol administration is indicated in symptomatic patients or at blood methanol concentrations above 20 ug/dl. Methanol is effectively removed by hemodialysis.  
Effects of acute ethylene glycol poisoning appear in three

|  |  |                           |
|--|--|---------------------------|
|  |  | Page: 4                   |
| <b>SAFETY DATA SHEET</b>   |  | Revision Date: 06/01/2016 |
|  |  | Print Date: 06/01/2016    |
|  |  | SDS Number: R0177148      |
| Pyroil™ De-Icer  |  | Version: 2.0              |
| PYDI11.5   |  |                           |


fairly distinct stages. The initial stage occurs shortly after exposure, lasts 6-12 hours, and is characterized by central nervous system effects (transient exhilaration, nausea, vomiting, and in severe cases, coma, convulsions, and possible death). The second stage lasts from 12-36 hours after exposure and is initiated by the onset of coma. This phase is characterized by tachypnea, tachycardia, mild hypotension, cyanosis, and in severe cases, pulmonary edema, bronchopneumonia, cardiac enlargement, and congestive failure. The final stage occurs 24-72 post-exposure and is characterized by renal failure, ranging from a mild increase in blood urea nitrogen and creatinine followed by recovery, to complete anuria with acute tubular necrosis that can lead to death. Oxaluria is found in most cases. The most significant laboratory finding in ethylene glycol intoxication is severe metabolic acidosis.

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:

- stomach or intestinal upset (nausea, vomiting, diarrhea)
- irritation (nose, throat, airways)
- Cough
- muscle cramps
- pain in the abdomen and lower back
- Blurred vision
- Shortness of breath
- cyanosis (causes blue coloring of the skin and nails from lack of oxygen)
- lung edema (fluid buildup in the lung tissue)
- acute kidney failure (sudden slowing or stopping of urine production)
- visual impairment (including blindness)
- Convulsions
- Toxic if swallowed, in contact with skin or if inhaled
- Causes damage to organs.
- May cause damage to organs through prolonged or repeated exposure if swallowed.

Notes to physician

: This product contains ethylene glycol. Ethanol decreases the metabolism of ethylene glycol to toxic metabolites. Ethanol should be administered as soon as possible in cases of severe poisoning since the elimination half-life of ethylene glycol is 3 hours. If medical care will be delayed several hours, give the patient three to four 1-ounce oral "shots" of 86-proof or higher whiskey before or during transport to the hospital. Fomepizole (4-methylpyrazole) is an effective antagonist of alcohol dehydrogenase, and as such, may be used as an antidote in the treatment of ethylene glycol poisoning. Hemodialysis effectively removes ethylene glycol and its metabolites from the body.


|  |  |                           |
|--|--|---------------------------|
|  |  | Page: 5                   |
| <b>SAFETY DATA SHEET</b>   |  | Revision Date: 06/01/2016 |
|  |  | Print Date: 06/01/2016    |
|  |  | SDS Number: R0177148      |
| Pyroil™ De-Icer  |  | Version: 2.0              |
| PYDI11.5   |  |                           |

## SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : carbon dioxide and carbon monoxide  
Alcohols  
Aldehydes  
ethers  
toxic fumes
- Specific extinguishing methods :
- Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Use a water spray to cool fully closed containers.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Remove all sources of ignition.  
Ensure adequate ventilation.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

|  |  |                           |
|--|--|---------------------------|
|  |  | Page: 6                   |
| <b>SAFETY DATA SHEET</b>   |  | Revision Date: 06/01/2016 |
|  |  | Print Date: 06/01/2016    |
|  |  | SDS Number: R0177148      |
| Pyroil™ De-Icer  |  | Version: 2.0              |
| PYDI11.5   |  |                           |

If the product contaminates rivers and lakes or drains inform respective authorities.

Other information : Comply with all applicable federal, state, and local regulations.  
Suppress (knock down) gases/vapours/mists with a water spray jet.

## SECTION 7. HANDLING AND STORAGE


Advice on safe handling : Open drum carefully as content may be under pressure.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Do not breathe vapours/dust.  
Do not smoke.  
Container hazardous when empty.  
Take precautionary measures against static discharges.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.  
Container may be opened only under exhaust ventilation hood.

Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.  
Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
No smoking.  
Electrical installations / working materials must comply with the technological safety standards.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

| Components | CAS-No. | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis        |
|------------|---------|----------------------------------|---|--------------|
| METHANOL   | 67-56-1 | TWA                              | 200 ppm   | ACGIH        |
|            |         | STEL                             | 250 ppm   | ACGIH        |
|            |         | REL                              | 200 ppm<br>260 mg/m3                              | NIOSH/GUID E |
|            |         | STEL                             | 250 ppm   | NIOSH/GUID   |

|  |  |                           |
|--|--|---------------------------|
|  |  | Page: 7                   |
| <b>SAFETY DATA SHEET</b>   |  | Revision Date: 06/01/2016 |
|  |  | Print Date: 06/01/2016    |
|  |  | SDS Number: R0177148      |
| Pyroil™ De-Icer  |  | Version: 2.0              |
| PYDI11.5   |  |                           |

|                 |          |         |   |                 |
|-----------------|----------|---------|---|-----------------|
|                 |          |         | 325 mg/m3                                   | E               |
|                 |          | PEL     | 200 ppm<br>260 mg/m3                        | OSHA_TRA<br>NS  |
|                 |          | TWA     | 200 ppm<br>260 mg/m3                        | TN OEL          |
|                 |          | STEL    | 250 ppm<br>325 mg/m3                        | TN OEL          |
| ETHYLENE GLYCOL | 107-21-1 | Ceiling | 100 mg/m3<br>Aerosol.                       | ACGIH           |
|                 |          | TWA     | 10 mg/m3<br>Inhalable fraction<br>and vapor | ACGIHLIS_P      |
| CARBON DIOXIDE  | 124-38-9 | TWA     | 5,000 ppm                                   | ACGIH           |
|                 |          | STEL    | 30,000 ppm                                  | ACGIH           |
|                 |          | REL     | 5,000 ppm<br>9,000 mg/m3                    | NIOSH/GUID<br>E |
|                 |          | STEL    | 30,000 ppm<br>54,000 mg/m3                  | NIOSH/GUID<br>E |
|                 |          | PEL     | 5,000 ppm<br>9,000 mg/m3                    | OSHA_TRA<br>NS  |

#### Biological occupational exposure limits

| Components | CAS-No.                 | Control parameters | Biological specimen | Sampling time                | Permissible concentration | Basis |
|------------|-------------------------|--------------------|---------------------|------------------------------|---------------------------|-------|
| METHANOL   | 67-56-1                 | methanol           | Urine               | Sampling time: End of shift. | 15 mg/l                   |       |
| Remarks:   | Background, Nonspecific |                    |                     |                              |                           |       |


**Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

#### Personal protective equipment

**Respiratory protection** : A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

**Hand protection**  
**Remarks** : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**Eye protection** : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed

|  |  |                           |
|--|--|---------------------------|
|  |  | Page: 8                   |
| <b>SAFETY DATA SHEET</b>   |  | Revision Date: 06/01/2016 |
|  |  | Print Date: 06/01/2016    |
|  |  | SDS Number: R0177148      |
| Pyroil™ De-Icer  |  | Version: 2.0              |
| PYDI11.5   |  |                           |


into eyes.

- Skin and body protection : Wear as appropriate:  
 impervious clothing  
 Safety shoes  
 Flame-resistant clothing  
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
 Discard gloves that show tears, pinholes, or signs of wear.  
 Wear resistant gloves (consult your safety equipment supplier).
- Hygiene measures : Avoid contact with skin, eyes and clothing.  
 Wash hands before breaks and immediately after handling the product.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : aerosol
- Odour : No data available
- Odour Threshold : No data available
- pH : No data available
- Melting point/freezing point : No data available
- Boiling point/boiling range : 148.5 °F / 64.7 °C  
 (1,013.25 hPa)  
 Value for Component
- Flash point : 54 °F / 12 °C  
 Calculated Flash Point
- Evaporation rate : No data available
- Flammability (solid, gas) : No data available
- Upper explosion limit : 36 %(V)  
 GLP: Calculated Explosive Limit
- Lower explosion limit : 3.2 %(V)  
 GLP: Calculated Explosive Limit
- Vapour pressure : 169.3164 hPa (25 °C)  
 Value for Component
- Relative vapour density : No data available
- Relative density : No data available
- Density : 0.797 g/cm3 (15.56 °C)



|  |  |                           |
|--|--|---------------------------|
|  |  | Page: 9                   |
| <b>SAFETY DATA SHEET</b>   |  | Revision Date: 06/01/2016 |
|  |  | Print Date: 06/01/2016    |
|  |  | SDS Number: R0177148      |
| Pyroil™ De-Icer  |  | Version: 2.0              |
| PYDI11.5   |  |                           |

Solubility(ies)  
 Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Thermal decomposition : No data available

Viscosity  
 Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

Heat of combustion : Estimated 15.35 kJ/g

## SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.


Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.  
 excessive heat

Incompatible materials : Aldehydes  
 Alkali metals  
 Alkaline earth metals  
 aluminum  
 Lead  
 sodium  
 Strong acids  
 strong bases  
 Strong oxidizing agents  
 Sulphur compounds  
 Zinc  
 Peroxides

Hazardous decomposition products  
 Aldehydes  
 carbon dioxide and carbon monoxide  
 formaldehyde-like  
 Organic acids

|  |  |                           |
|--|--|---------------------------|
|  |  | Page: 10                  |
| <b>SAFETY DATA SHEET</b>   |  | Revision Date: 06/01/2016 |
|  |  | Print Date: 06/01/2016    |
|  |  | SDS Number: R0177148      |
| Pyroil™ De-Icer  |  | Version: 2.0              |
| PYDI11.5   |  |                           |

ketones

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation  
Skin contact  
Eye Contact  
Ingestion

### Acute toxicity

Toxic if swallowed, in contact with skin or if inhaled

#### Components:

##### METHANOL:

Acute oral toxicity : LD L0 (Human): 300 mg/kg  
Assessment: The component/mixture is classified as acute oral toxicity, category 3.

Acute inhalation toxicity : LC 50 (Rat): 64000 ppm  
Exposure time: 4 h

Assessment: The component/mixture is classified as acute inhalation toxicity, category 3.  
Remarks: Slightly toxic by inhalation

Acute dermal toxicity : LD 50 (Rabbit): 12,800 mg/kg  
Assessment: The component/mixture is classified as acute dermal toxicity, category 3.

##### ETHYLENE GLYCOL:

Acute oral toxicity : LD 50 (Rat): 6,140 mg/kg

LD50 (Human): Estimated 1.56 g/kg  
Assessment: The component/mixture is classified as acute oral toxicity, category 4.

Acute inhalation toxicity : LC 50 (Rat): 10.9 mg/l  
Exposure time: 1 h  
Test atmosphere: dust/mist  
Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD 50 (Rabbit): 9,530 mg/kg

### Skin corrosion/irritation


Not classified based on available information.

#### Product:

Result: Repeated exposure may cause skin dryness or cracking.

#### Components:

##### METHANOL:

|  |  |                           |
|--|--|---------------------------|
|  |  | Page: 11                  |
| <b>SAFETY DATA SHEET</b>   |  | Revision Date: 06/01/2016 |
|  |  | Print Date: 5/12/2016     |
|  |  | SDS Number: R0177148      |
| Pyroil™ De-Icer  |  | Version: 2.0              |
| PYDI11.5   |  |                           |

Species: Rabbit

Result: Not irritating to skin

ETHYLENE GLYCOL:

Result: Mildly irritating to skin

CARBON DIOXIDE:

Result: Not irritating to skin

#### **Serious eye damage/eye irritation**

Not classified based on available information.

#### **Product:**

Remarks: Unlikely to cause eye irritation or injury.

#### **Components:**

METHANOL:

Species: Rabbit

Result: Mildly irritating to eyes

ETHYLENE GLYCOL:

Result: Possibly irritating to eyes

CARBON DIOXIDE:

Result: Not irritating to eyes

#### **Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

#### **Components:**

METHANOL:

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

#### **Germ cell mutagenicity**

Not classified based on available information.

#### **Carcinogenicity**

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

#### **STOT - single exposure**

Causes damage to organs (Central nervous system, Eyes).

#### **Components:**

METHANOL:


Target Organs: Central nervous system, Eyes

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.

#### **STOT - repeated exposure**

May cause damage to organs (Kidney, Liver) through prolonged or repeated exposure if swallowed.

#### **Components:**

|  |  |                           |
|--|--|---------------------------|
|  |  | Page: 12                  |
| <b>SAFETY DATA SHEET</b>   |  | Revision Date: 06/01/2016 |
|  |  | Print Date: 5/12/2016     |
|  |  | SDS Number: R0177148      |
| Pyroil™ De-Icer  |  | Version: 2.0              |
| PYDI11.5   |  |                           |

**ETHYLENE GLYCOL:**

Exposure routes: Ingestion

Target Organs: Kidney, Liver

Assessment: May cause damage to organs through prolonged or repeated exposure.

**Aspiration toxicity**

Not classified based on available information.

**Further information**

**Product:**

Remarks: No data available

**Components:**

**METHANOL:**

Remarks: Central nervous system

**Carcinogenicity:**

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Components:**


**METHANOL:**

Toxicity to fish : LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss)): 18,000 - 20,000 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (Daphnia magna)): > 10,000 mg/l  
Exposure time: 48 h  
Test Type: static test

**ETHYLENE GLYCOL:**

Toxicity to fish : LC 50 (Bluegill (Lepomis macrochirus)): 27,540 mg/l  
Exposure time: 96 h  
Method: Static  
Remarks: Mortality

|  |  |                           |
|--|--|---------------------------|
|  |  | Page: 13                  |
| <b>SAFETY DATA SHEET</b>   |  | Revision Date: 06/01/2016 |
|  |  | Print Date: 5/12/2016     |
|  |  | SDS Number: R0177148      |
| Pyroil™ De-Icer  |  | Version: 2.0              |
| PYDI11.5   |  |                           |

LC 50 (Fathead minnow (Pimephales promelas)): 8,050 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Water flea (Daphnia magna)): > 10,000 mg/l  
Exposure time: 48 h  
Test Type: static test

#### Persistence and degradability

##### Components:

METHANOL:

Biodegradability : Biodegradation: 99 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

#### Bioaccumulative potential

##### Components:

METHANOL:

Partition coefficient: n-octanol/water : log Pow: -0.77

ETHYLENE GLYCOL:

Bioaccumulation : Species: Crayfish (Procambarus)  
Bioconcentration factor (BCF): 0.27  
Exposure time: 61 d  
Concentration: 1000 mg/l  
Method: Flow through

Partition coefficient: n-octanol/water : log Pow: -1.36

#### Mobility in soil

##### Components:

No data available

#### Other adverse effects

No data available

##### Product:


Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., May cause long lasting harmful effects to aquatic life.

##### Components:

## SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

General advice : The product should not be allowed to enter drains, water courses or the soil.

|  |  |                           |
|--|--|---------------------------|
|  |  | Page: 14                  |
| <b>SAFETY DATA SHEET</b>   |  | Revision Date: 06/01/2016 |
|  |  | Print Date: 5/12/2016     |
|  |  | SDS Number: R0177148      |
| Pyroil™ De-Icer  |  | Version: 2.0              |
| PYDI11.5   |  |                           |

Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14. TRANSPORT INFORMATION

### International transport regulations

#### REGULATION

| ID NUMBER | PROPER SHIPPING NAME | *HAZARD CLASS | SUBSIDIARY HAZARDS | PACKING GROUP | MARINE POLLUTANT / LTD. QTY. |
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|
|-----------|----------------------|---------------|--------------------|---------------|------------------------------|

#### U.S. DOT - ROAD

|    |      |          |     |  |                  |
|----|------|----------|-----|--|------------------|
| UN | 1950 | Aerosols | 2.1 |  | LIMITED QUANTITY |
|----|------|----------|-----|--|------------------|

#### U.S. DOT - RAIL

|    |      |          |     |  |                  |
|----|------|----------|-----|--|------------------|
| UN | 1950 | Aerosols | 2.1 |  | LIMITED QUANTITY |
|----|------|----------|-----|--|------------------|

#### U.S. DOT - INLAND WATERWAYS

|    |      |          |     |  |                  |
|----|------|----------|-----|--|------------------|
| UN | 1950 | Aerosols | 2.1 |  | LIMITED QUANTITY |
|----|------|----------|-----|--|------------------|

#### TRANSPORT CANADA - ROAD


|    |      |  |           |  |                  |
|----|------|--|-----------|--|------------------|
| UN | 1950 | AEROSOLS, flammable, containing substances in Class 6.1, packing group III | 2.1 (6.1) |  | LIMITED QUANTITY |
|----|------|--|-----------|--|------------------|

#### TRANSPORT CANADA - RAIL

|    |      |  |           |  |                  |
|----|------|--|-----------|--|------------------|
| UN | 1950 | AEROSOLS, flammable, containing substances in Class 6.1, packing group III | 2.1 (6.1) |  | LIMITED QUANTITY |
|----|------|--|-----------|--|------------------|

#### TRANSPORT CANADA - INLAND WATERWAYS

|    |      |  |           |  |                  |
|----|------|--|-----------|--|------------------|
| UN | 1950 | AEROSOLS, flammable, containing substances in Class 6.1, packing group III | 2.1 (6.1) |  | LIMITED QUANTITY |
|----|------|--|-----------|--|------------------|

|  |  |                           |
|--|--|---------------------------|
|  |  | Page: 15                  |
| <b>SAFETY DATA SHEET</b>   |  | Revision Date: 06/01/2016 |
|  |  | Print Date: 5/12/2016     |
|  |  | SDS Number: R0177148      |
| Pyroil™ De-Icer  |  | Version: 2.0              |
| PYDI11.5   |  |                           |

#### INTERNATIONAL MARITIME DANGEROUS GOODS

|    |      |          |           |
|----|------|----------|-----------|
| UN | 1950 | AEROSOLS | 2.1 (6.1) |
|    |      |          |           |

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

|  |      |                      |           |
|--|------|----------------------|-----------|
| UN   | 1950 | Aerosols, flammable, | 2.1 (6.1) |
| containing substances in division 6.1, packing group iii |      |                      |           |

#### INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

|  |      |                      |           |
|--|------|----------------------|-----------|
| UN   | 1950 | Aerosols, flammable, | 2.1 (6.1) |
| containing substances in division 6.1, packing group iii |      |                      |           |

#### MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

|    |      |          |   |
|----|------|----------|---|
| UN | 1950 | AEROSOLS | 2 |
|    |      |          |   |

\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

|                  |    |
|------------------|----|
| Marine pollutant | no |
|------------------|----|

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

#### SECTION 15. REGULATORY INFORMATION

##### EPCRA - Emergency Planning and Community Right-to-Know Act


##### CERCLA Reportable Quantity

| Components | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|------------|---------|--------------------|-----------------------------|
| METHANOL   | 67-56-1 | 5000               | 8005.379615                 |

**SARA 311/312 Hazards** : Acute Health Hazard  
Fire Hazard  
Chronic Health Hazard

##### SARA 313 Component(s)

|                 |          |         |
|-----------------|----------|---------|
| METHANOL        | 67-56-1  | 62.45 % |
| ETHYLENE GLYCOL | 107-21-1 | 5.92 %  |

|  |  |                           |
|--|--|---------------------------|
|  |  | Page: 16                  |
| <b>SAFETY DATA SHEET</b>   |  | Revision Date: 06/01/2016 |
|  |  | Print Date: 06/01/2016    |
|  |  | SDS Number: R0177148      |
| Pyroil™ De-Icer  |  | Version: 2.0              |
| PYDI11.5   |  |                           |

### California Prop 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

### The components of this product are reported in the following inventories:

|       |   |
|-------|---|
| TSCA  | : On TSCA Inventory                                       |
| DSL   | : All components of this product are on the Canadian DSL. |
| AICS  | : On the inventory, or in compliance with the inventory   |
| NZIOC | : On the inventory, or in compliance with the inventory   |
| ENCS  | : On the inventory, or in compliance with the inventory   |
| KECI  | : On the inventory, or in compliance with the inventory   |
| PICCS | : On the inventory, or in compliance with the inventory   |
| IECSC | : On the inventory, or in compliance with the inventory   |

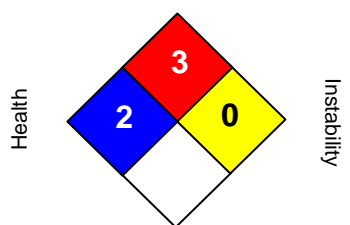
### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

## SECTION 16. OTHER INFORMATION

### Further information


Revision Date: 06/01/2016

| NFPA:   | HMIS III:  |               |           |                     |          |                        |          |
|---|--|---------------|-----------|---------------------|----------|------------------------|----------|
| <p>Flammability</p>  <p>Health</p> <p>Instability</p> <p>Special hazard.</p> | <table border="1"> <tr> <td><b>HEALTH</b></td><td><b>2*</b></td></tr> <tr> <td><b>FLAMMABILITY</b></td><td><b>3</b></td></tr> <tr> <td><b>PHYSICAL HAZARD</b></td><td><b>0</b></td></tr> </table> <p>0 = not significant, 1 =Slight,<br/>2 = Moderate, 3 = High<br/>4 = Extreme, * = Chronic</p> | <b>HEALTH</b> | <b>2*</b> | <b>FLAMMABILITY</b> | <b>3</b> | <b>PHYSICAL HAZARD</b> | <b>0</b> |
| <b>HEALTH</b>   | <b>2*</b>  |               |           |                     |          |                        |          |
| <b>FLAMMABILITY</b>   | <b>3</b>   |               |           |                     |          |                        |          |
| <b>PHYSICAL HAZARD</b>  | <b>0</b>   |               |           |                     |          |                        |          |

### NFPA Flammable and Combustible Liquids Classification

Not applicable



|  |  |                           |
|--|--|---------------------------|
|  |  | Page: 17                  |
| <b>SAFETY DATA SHEET</b>   |  | Revision Date: 06/01/2016 |
|  |  | Print Date: 06/01/2016    |
|  |  | SDS Number: R0177148      |
| Pyroil™ De-Icer  |  | Version: 2.0              |
| PYDI11.5   |  |                           |

**Full text of H-Statements referred to under sections 2 and 3.**

|      |   |
|------|---|
| H225 | Highly flammable liquid and vapor.                  |
| H226 | Flammable liquid and vapor.                         |
| H280 | Contains gas under pressure; may explode if heated. |
| H301 | Toxic if swallowed.                                 |
| H302 | Harmful if swallowed.                               |
| H311 | Toxic in contact with skin.                         |
| H314 | Causes severe skin burns and eye damage.            |
| H318 | Causes serious eye damage.                          |

Sources of key data used to compile the Safety Data Sheet

Internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

Cefic, the European Chemical Industry Council.

ESIS European Chemical Substances Information System

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Niteo's Environmental Health and Safety Department (1-844-696-4836).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx : Lethal Dose, for xx percent of test population.

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified


OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

|  |  |                           |
|--|--|---------------------------|
|  |  | Page: 18                  |
| <b>SAFETY DATA SHEET</b>   |  | Revision Date: 06/01/2016 |
|  |  | Print Date: 06/01/2016    |
|  |  | SDS Number: R0177148      |
| Pyroil™ De-Icer  |  | Version: 2.0              |
| PYDI11.5   |  |                           |

STEL : Short-term exposure limit  
 STOT : Specific Target Organ Toxicity  
 TLV : Threshold Limit Value  
 TWA : Time-weighted average  
 vPvB : Very Persistent and Very Bioaccumulative  
 WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act  
 DOT : Department of Transportation  
 FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act  
 HMIRC : Hazardous Materials Information Review Commission  
 HMIS : Hazardous Materials Identification System  
 NFPA : National Fire Protection Association  
 NIOSH : National Institute for Occupational Safety and Health  
 OSHA : Occupational Safety and Health Administration  
 PMRA : Health Canada Pest Management Regulatory Agency  
 RTK : Right to Know  
**WHMIS : Workplace Hazardous Materials Information System**