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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

: Pyroil™ Trade name

DEICER

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data **Emergency telephone number** sheet 1-800-ASHLAND (1-800-274-5263)

Ashland

P.O. Box 2219 Columbus, OH 43216

United States of America

EHS Customer Requests@ashland.com

Regulatory Information Number

1-800-325-3751

Product Information

614-790-3333

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







: Danger Signal Word

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Hazard Statements : Flammable aerosol.

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.

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	62.45
		Acute Tox. 3; H301	
		Acute Tox. 3; H331	

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		Acute Tox. 3; H311 STOT SE 1; H370	
ETHYLENE GLYCOL	107-21-1	Acute Tox. 4; H302 STOT RE 2; H373	5.92
CARBON DIOXIDE	124-38-9	Press. Gas Liquefied gas; H280	1.76

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 eve.

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

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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 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 tachypnia, tachycardia, mild hypotension, cyanosis, and in severe cases, pulmonary edema, bronchopneumonia, cardiac enlargement, and congestive failure. The final stage occurs 24-72 postexposure 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

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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.

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 (CO2)

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

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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.

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.

Observe laber preca

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	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	

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	<u> </u>			
			concentration	
METHANOL	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		REL	200 ppm	NIOSH/GUID
			260 mg/m3	E
		STEL	250 ppm	NIOSH/GUID
			325 mg/m3	E
		PEL	200 ppm	OSHA_TRA
			260 mg/m3	NS
		TWA	200 ppm	TN OEL
			260 mg/m3	
		STEL	250 ppm	TN OEL
			325 mg/m3	
ETHYLENE GLYCOL	107-21-1	Ceiling	100 mg/m3	ACGIH
			Aerosol.	
		TWA	10 mg/m3	ACGIHLIS_P
			Inhalable fraction	
			and vapor	
CARBON DIOXIDE	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		REL	5,000 ppm	NIOSH/GUID
			9,000 mg/m3	E
		STEL	30,000 ppm	NIOSH/GUID
			54,000 mg/m3	E
		PEL	5,000 ppm	OSHA_TRA
			9,000 mg/m3	NS

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Samplin g time	Permissible concentratio n	Basis
METHANOL	67-56-1	methanol	Urine	Samplin g time: End of shift.	15 mg/l	
Remarks:	Backgroun	d, 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

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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

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

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Relative vapour density : No data available

Relative density : No data available

Density : 0.7972 g/cm3 (15.56 °C)

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

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Hazardous decomposition

products Aldehydes

carbon dioxide and carbon monoxide

formaldehyde-like Organic acids ketones

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation

exposure 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:

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Result: Repeated exposure may cause skin dryness or cracking.

Components:

METHANOL: 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.

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STOT - repeated exposure

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

Components:

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.

OSHANo 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.

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

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Method: Static Remarks: Mortality

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:

Bioaccumulation : Species: Green algae (Chlorella fusca vacuolata)

Bioconcentration factor (BCF): 28,400

Exposure time: 24 h Concentration: 0.05 mg/l

Method: Static

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.

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Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : The product should not be allowed to enter drains, water

courses or the soil.

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

ORM-D, CONSUMER COMMODITY	ORM

U.S. DOT - RAIL

ORM-D, CONSUMER COMMODITY	ORM	

U.S. DOT - INLAND WATERWAYS

ORM-D, CONSUMER COMMODITY	ORM	

TRANSPORT CANADA - ROAD

UN	1950	AEROSOLS	2.1

TRANSPORT CANADA - RAIL

UN	1950	AEROSOLS	2.1

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TRANSPORT CANADA - INLAND WATERWAYS

UN	1950	AEROSOLS	2.1

INTERNATIONAL MARITIME DANGEROUS GOODS

UN	1950	AEROSOLS	2.1

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	1950	Aerosols, flammable	2.1

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1950	Aerosols, flammable	2.1

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	1950	AEROSOLES	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	Calculated product RQ	
		(lbs)	(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 %

Pennsylvania Right To Know

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	METHANOL	67-56-1	50.00 - 70.00 %
	WATER	7732-18-5	20.00 - 30.00 %
	ETHYLENE GLYCOL	107-21-1	5.00 - 10.00 %
	CARBON DIOXIDE	124-38-9	1.00 - 5.00 %
New Jersey Ri	ght To Know METHANOL	67-56-1	50.00 - 70.00 %
	WATER	7732-18-5	20.00 - 30.00 %
	ETHYLENE GLYCOL	107-21-1	5.00 - 10.00 %
	CARBON DIOXIDE	124-38-9	1.00 - 5.00 %

California Prop 65 WARNING: This product contains a chemical known to the

State of California to cause birth defects or other reproductive

harm.

METHANOL 67-56-1

ETHYLENE GLYCOL 109-86-4

MONOMETHYL ETHER

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.

AUSTR : 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

KECL : 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

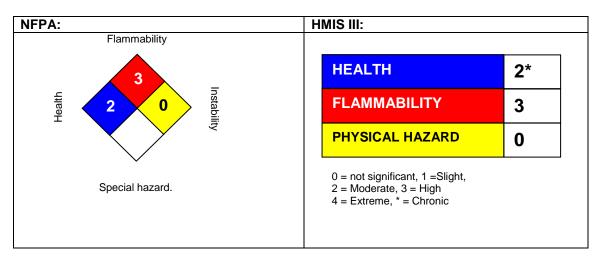
Inventories

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

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SECTION 16. OTHER INFORMATION

Further information Revision Date: 05/22/2015



NFPA Flammable and Combustible Liquids Classification

Not applicable

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

H225	Highly 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.		
H331	Toxic if inhaled.		
H370	Causes damage to organs.		
H373	May cause damage to organs through prolonged or repeated exposure if swallowed		

Sources of key data used to compile the Safety Data Sheet Ashland internal data including own and sponsored test reports

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

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 Ashland's Environmental Health and Safety Department (1-800-325-3751).

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

ACGIH: American Conference of Industrial Hygienists

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		Print Date: 7/9/2015
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Pyroil™ DEICER		Version: 1.0
PYDI11.5		

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 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