



# Safety Data Sheet

## Prist® Anti-Icing Aviation Fuel Additive

Version 1.9

Revision Date: 01/30/2017

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** : Prist® Anti-Icing Aviation Fuel Additive

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

Recommended use : Fuels and fuel additives  
DEICER

**Manufacturer or supplier's details**

**Company** : PRIST®  
**Address** : 3 Waterway Square Place Suite 1000  
The Woodlands, TX. 77380  
United States of America

**Emergency telephone number:**  
PRIST®:-1-855-639-3648

**Additional Information:** : Phone: 1-855-429-2661  
Regulatory Information Number: 1-855-429-2661  
Email: msds@nexeosolutions.com

### SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification**

Flammable liquids : Category 4  
Reproductive toxicity : Category 2  
Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

**GHS Label element**

Hazard pictograms :

Signal word : Warning

Hazard statements : H227 Combustible liquid.  
H336 May cause drowsiness or dizziness.  
H361 Suspected of damaging fertility or the unborn child.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/



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face protection.

**Response:**

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

**Hazardous components**

CAS-No.	Chemical Name	Weight %
111-77-3	Glycol Ether DM	90 - 100

Any Concentration shown as a range is due to batch variation.

**Molecular formula** : CH<sub>3</sub> O (CH<sub>2</sub>CH<sub>2</sub>O)<sub>2</sub>H

**Synonyms** : PRIST Fuel Additive, PRIST FA, PRIST FA P/N 35737, PRIST FA P/N 44637,

### SECTION 4. FIRST AID MEASURES

**General advice** : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

**If inhaled** : Consult a physician after significant exposure.  
If unconscious place in recovery position and seek medical advice.

**In case of skin contact** : If on skin, rinse well with water.  
If on clothes, remove clothes.

**In case of eye contact** : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.



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- If eye irritation persists, consult a specialist.
- If swallowed : Do not induce vomiting without medical advice.  
Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

#### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Foam  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon oxides
- Specific extinguishing methods : Use a water spray to cool fully closed containers.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.  
Use personal protective equipment.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
- 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.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, ver-



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miculite) and place in container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : No smoking.  
Keep in a well-ventilated place.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.
- Storage period : 6 - 24 Months
- Packaging material : Unsuitable material: Aluminium, Copper, Iron, Unlined steel, Zinc  
  
Suitable material: Carbon steel, Stainless steel

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.  
In the case of vapour formation use a respirator with an approved filter.
- Hand protection
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles



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- Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

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#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : Clear, Colorless
- Odour : mild, aromatic
- Odour Threshold : No data available
- pH : No data available
- Freezing Point (Melting point/freezing point) : -84 - -65 °C (-119 - -85 °F)
- Boiling Point (Boiling point/boiling range) : 193 - 194 °C (379 - 381 °F)  
(1013 hPa)
- Flash point : 83.9 - 91 °C (183.0 - 196 °F)  
(1,013 hPa)  
Method: closed cup
- Evaporation rate : 0.02  
(Butyl Acetate = 1)
- Flammability (solid, gas) : No data available
- Upper explosion limit : 22.7 %(V)
- Lower explosion limit : 1.38 %(V)
- Vapour pressure : 0.19 - 0.25 mmHg @ 20 - 25 °C (68 - 77 °F)
- Relative vapour density : 4.2 @ 20 - 25 °C (68 - 77 °F)  
(Air = 1.0)
- Relative density : 1.020 - 1.025 @ 20 °C (68 °F)  
Reference substance: (water = 1)
- Density : 1.022 - 1.025 g/cm<sup>3</sup> @ 20 °C (68 °F)
- Solubility(ies)  
Water solubility : completely soluble



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Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: log Pow: -0.47 - -0.46 @ 20 °C (68 °F)
Auto-ignition temperature	: 215 °C
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: 3.9 mPa.s @ 20 °C (68 °F)
Viscosity, kinematic	: 3.82 - 3.89 mm <sup>2</sup> /s @ 20 °C (68 °F)

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No hazards to be specially mentioned.
Conditions to avoid	: Keep away from heat, flame, sparks and other ignition sources.
Incompatible materials	: Acids Bases Oxidizing agents
Hazardous decomposition products	: Aldehydes Carbon oxides Ketones Organic acids

#### SECTION 11. TOXICOLOGICAL INFORMATION

<b>Carcinogenicity</b>	
<b>IARC</b>	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.
<b>OSHA</b>	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.
<b>NTP</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen



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by NTP.

#### ACGIH

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

#### Reproductive toxicity

##### Components:

##### **111-77-3:**

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Oral  
Duration of Single Treatment: 10 d  
Teratogenicity: LOAEL: 720 mg/kg body weight  
Symptoms: Skeletal malformations

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

Teratogenicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

#### STOT - single exposure

##### Product:

Target Organs: Central nervous system  
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

#### Aspiration toxicity

##### Product:

No aspiration toxicity classification

#### Further information

##### Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.  
Concentrations substantially above the TLV value may cause narcotic effects.  
Solvents may degrease the skin.

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## SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

No data available



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#### Persistence and degradability

No data available

#### Bioaccumulative potential

No data available

#### Mobility in soil

No data available

#### Other adverse effects

##### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : No data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.  
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact NEXEO's Environmental Services Group at 800-637-7922.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

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## SECTION 14. TRANSPORT INFORMATION

#### DOT (Department of Transportation):

NA1993, Combustible liquid, n.o.s., (GLYCOL ETHER DM), CBL, III

IATA (International Air Transport Association): Not regulated as a dangerous good

IMDG-Code: Not regulated as a dangerous good

Special Notes: : The flash point for this material is greater than 100 F (38 C).  
Therefore, in accordance with 49 CFR 173.150(f) non-bulk





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containers (<450L or <119 gallon capacity) of this material may be shipped as non-regulated when transported solely by land, as long as the material is not a hazardous waste, a marine pollutant, or specifically listed as a hazardous substance.

### SECTION 15. REGULATORY INFORMATION

**WHMIS Classification** : B3: Combustible Liquid  
D2A: Very Toxic Material Causing Other Toxic Effects

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

##### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
2-ethoxyethanol	110-80-5	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Fire Hazard  
Immediate (Acute) Health Hazard  
Chronic (Delayed) Health Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

111-77-3 Glycol Ether DM

#### Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

111-77-3 Glycol Ether DM

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

111-77-3 Glycol Ether DM

#### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

#### US State Regulations

##### Massachusetts Right To Know



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111-77-3 Glycol Ether DM 90 - 100 %

#### Pennsylvania Right To Know

111-77-3 Glycol Ether DM 90 - 100 %  
109-86-4 Ethanol, 2-methoxy- 0 - 0.1 %  
110-80-5 2-ethoxyethanol 0 - 0.1 %  
67-56-1 Methanol 0 - 0.1 %

#### New Jersey Right To Know

111-77-3 Glycol Ether DM 90 - 100 %

#### California Prop 65

109-86-4 Ethanol, 2-methoxy-  
110-80-5 2-ethoxyethanol  
67-56-1 Methanol  
WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

109-86-4 Ethanol, 2-methoxy-  
110-80-5 2-ethoxyethanol  
67-56-1 Methanol  
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



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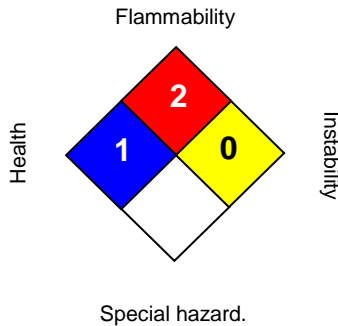
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### SECTION 16. OTHER INFORMATION

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	<b>1*</b>
<b>FLAMMABILITY</b>	<b>2</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,  
 2 = Moderate, 3 = High  
 4 = Extreme, \* = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by NEXEO™ Solutions EHS Product Safety Department (1-855-429-2661) MSDS@nexeosolutions.com.

**Revision Date** : 01/30/2017

**Material number:**

16056161, 16056160, 16056156, 16056153, 16056154

<b>Key or legend to abbreviations and acronyms used in the safety data sheet</b>			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic



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GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50			Lethal Concentration 50%