



## SAFETY DATA SHEET

### Prestone Anti Freeze Ready To Use ( RTU)

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

<b>Product name</b>	Prestone Anti Freeze Ready To Use ( RTU)
<b>Product number</b>	AF2100LD, AF2100LGBA, AF2100LFNL, PAFR0017A, PAFR0018A, PAFR0019A
<b>UFI</b>	UFI: JTT5-T08A-S00R-GKCG
<b>REACH registration notes</b>	This is a MIXTURE; no registration information contained in this document . Holts are classed as Downstream User.

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Antifreeze liquid.

##### 1.3. Details of the supplier of the safety data sheet

<b>Supplier</b>	Holt Lloyd International Ltd Barton Dock Road Stretford Manchester M32 0YQ - England, UK +44 (0) 161 866 4800 FAX +44 (0) 161 866 4854 www.holtsauto.com
<b>Contact person</b>	Contact Email address: info@holtsauto.com

##### 1.4. Emergency telephone number

**Emergency telephone** UK - 00 44 (0) 161 866 4800 Office hrs = 0900 - 1700 hrs

**National emergency telephone number** National Poisons Information Service  
City Hospital, Birmingham B187QH, United Kingdom  
Telephone: +44 121 507 4123  
Email: allistervale@npis.org, sallybradberry@npis.org  
  
www.npis.org

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

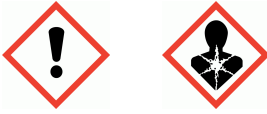
###### Classification (EC 1272/2008)

<b>Physical hazards</b>	Not Classified
<b>Health hazards</b>	Acute Tox. 4 - H302 STOT RE 2 - H373
<b>Environmental hazards</b>	Not Classified

##### 2.2. Label elements

## Prestone Anti Freeze Ready To Use ( RTU)

### Hazard pictograms



### Signal word

Warning

### Hazard statements

H302 Harmful if swallowed.

H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure if swallowed.

### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P264 Wash contaminated skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P330 Rinse mouth.

P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.

P501 Dispose of contents/ container in accordance with local regulations.

### UFI

UFI: JTT5-T08A-S00R-GKCG

### Contains

ETHANEDIOL

### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>ETHANEDIOL</b>			<b>30-60%</b>
CAS number: 107-21-1	EC number: 203-473-3	REACH registration number: 01-2119456816-28-XXXX	
<b>Classification</b>			
Acute Tox. 4 - H302			
STOT RE 2 - H373			
<b>2-Ethylhexanoic Acid</b>			<b>1-5%</b>
CAS number: 149-57-5	EC number: 205-743-6	REACH registration number: 01-2119488942-23-XXXX	
<b>Classification</b>			
Repr. 2 - H361d			
<b>SODIUM HYDROXIDE</b>			<b>&lt;1%</b>
CAS number: 1310-73-2	EC number: 215-185-5	REACH registration number: 01-2119457892-27-XXXX	
<b>Classification</b>			
Skin Corr. 1A - H314			
Eye Dam. 1 - H318			

## Prestone Anti Freeze Ready To Use ( RTU)

<b>Neodecanoic acid</b> <span style="float: right;"><b>&lt;1%</b></span>		
CAS number: 26896-20-8	EC number: 248-093-9	REACH registration number: 01-2119449554-33-XXXX
<b>Classification</b> Not Classified		
<b>sodium 4(or 5)-methyl-1H-benzotriazolide</b> <span style="float: right;"><b>&lt;1%</b></span>		
CAS number: 64665-57-2	EC number: 265-004-9	REACH registration number: 01-2119980062-42-XXXX
<b>Classification</b> Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318		
<b>PROPAN-1-OL</b> <span style="float: right;"><b>&lt;1%</b></span>		
CAS number: 71-23-8	EC number: 200-746-9	REACH registration number: 01-2119486761-29-XXXX
<b>Classification</b> Flam. Liq. 2 - H225 Eye Dam. 1 - H318 STOT SE 3 - H336		
<b>Polypropylene Glycol</b> <span style="float: right;"><b>&lt;1%</b></span>		
CAS number: 25322-69-4	EC number: 500-039-8	REACH registration number: 01-2119457556-29-XXXX
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335		
<b>Denatonium Benzoate</b> <span style="float: right;"><b>&lt;1%</b></span>		
CAS number: 3734-33-6	EC number: 223-095-2	REACH registration number: 01-2120102843-65-XXXX
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412		

## Prestone Anti Freeze Ready To Use ( RTU)

<b>D11014A CHROMATINT URANINE CONC (Yellow)</b>			<b>&lt;1%</b>
CAS number: 518-47-8	EC number: 208-253-0	REACH registration number: 01-2120115897-47-XXXX	
<b>Classification</b>			
Not Classified			

The full text for all hazard statements is displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Do not induce vomiting. Remove affected person from source of contamination. Give plenty of water to drink. Get medical attention immediately. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Rinse with water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

#### 4.2. Most important symptoms and effects, both acute and delayed

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	This is unlikely to occur but symptoms similar to those of ingestion may develop.
<b>Ingestion</b>	Harmful if swallowed. May cause liver and/or renal damage.
<b>Skin contact</b>	May be slightly irritating to skin. Prolonged skin contact may cause redness and irritation.
<b>Eye contact</b>	May be slightly irritating to eyes. Prolonged contact may cause redness and/or tearing.

#### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

#### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours.
<b>Hazardous combustion products</b>	Oxides of carbon. Oxides of nitrogen.

#### 5.3. Advice for firefighters

**Protective actions during firefighting** Fight fire with normal precautions from a reasonable distance.

## Prestone Anti Freeze Ready To Use ( RTU)

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid contact with skin, eyes and clothing. Wear protective clothing as described in Section 8 of this safety data sheet.

#### 6.2. Environmental precautions

**Environmental precautions** Avoid release to the environment. Do not discharge into drains or watercourses or onto the ground. The product is miscible with water and may spread in water systems.

#### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Avoid the spillage or runoff entering drains, sewers or watercourses. For waste disposal, see Section 13.

#### 6.4. Reference to other sections

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes. Do not handle broken packages without protective equipment.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Keep away from food, drink and animal feeding stuffs. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

**Storage class** Chemical storage.

#### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### ETHANEDIOL

Long-term exposure limit (8-hour TWA): WEL 20 ppm 52 mg/m<sup>3</sup> vapour

Short-term exposure limit (15-minute): WEL 40 ppm 104 mg/m<sup>3</sup> vapour

Sk

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> particulate

Sk

##### SODIUM HYDROXIDE

Long-term exposure limit (8-hour TWA): WEL

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

##### PROPAN-1-OL

Long-term exposure limit (8-hour TWA): WEL 200 ppm(Sk) 500 mg/m<sup>3</sup>(Sk)

Short-term exposure limit (15-minute): WEL 250 ppm(Sk) 625 mg/m<sup>3</sup>(Sk)

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

#### ETHANEDIOL (CAS: 107-21-1)

**Ingredient comments** WEL = Workplace Exposure Limits

## Prestone Anti Freeze Ready To Use ( RTU)

**DNEL** Workers - Inhalation; Long term local effects: 35 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 106 mg/kg/day  
 General population - Inhalation; Long term local effects: 7 mg/m<sup>3</sup>  
 General population - Dermal; Long term systemic effects: 53 mg/kg/day

**PNEC** Fresh water; 10 mg/l  
 marine water; 1 mg/l  
 STP; 199.5 mg/l  
 Sediment (Freshwater); 37 mg/kg  
 Sediment (Marinewater); 3.7 mg/kg  
 Soil; 1.53 mg/kg

### 2-Ethylhexanoic Acid (CAS: 149-57-5)

**DNEL** Workers - Inhalation; Long term systemic effects: 14 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 2 mg/kg bw/day  
 General population - Inhalation; Long term systemic effects: 3.5 mg/m<sup>3</sup>  
 General population - Dermal; Long term systemic effects: 1 mg/kg bw/day  
 General population - Oral; Long term systemic effects: 1 mg/kg bw/day

**PNEC** Fresh water; 0.4 mg/l  
 Intermittent release; 1 mg/l  
 marine water; 0.04 mg/l  
 STP; 71.7 mg/l  
 Sediment (Freshwater); 4.74 mg/kg sediment dw  
 Sediment (Marinewater); 0.74 mg/kg sediment dw  
 Soil; 0.712 mg/kg soil dw

### SODIUM HYDROXIDE (CAS: 1310-73-2)

**DNEL** Workers - Inhalation; Long term local effects: 1 mg/m<sup>3</sup>  
 General population - Dermal; Long term local effects: 1 mg/m<sup>3</sup>

### sodium 4(or 5)-methyl-1H-benzotriazole (CAS: 64665-57-2)

**DNEL** Workers - Inhalation; Long term systemic effects: 21.2 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 0.3 mg/kg/day  
 General population - Inhalation; Long term systemic effects: 350 µg/m<sup>3</sup>  
 General population - Dermal; Long term systemic effects: 0.01 mg/kg/day  
 General population - Oral; Long term systemic effects: 0.01 mg/kg/day

**PNEC** Fresh water; 0.008 mg/l  
 marine water; 20 µg/l  
 STP; 39.4 mg/l  
 Sediment (Freshwater); 0.117 mg/kg  
 Sediment (Marinewater); 0.292 mg/kg  
 Soil; 18.7 µg/kg

### PROPAN-1-OL (CAS: 71-23-8)

**DNEL** Workers - Inhalation; Long term systemic effects: 268 mg/m<sup>3</sup>  
 Workers - Inhalation; Short term systemic effects: 1723 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 136 mg/kg/day  
 General population - Inhalation; Long term systemic effects: 80 mg/m<sup>3</sup>  
 General population - Dermal; Long term systemic effects: 81 mg/kg/day  
 General population - Oral; Long term systemic effects: 61 mg/kg/day

## Prestone Anti Freeze Ready To Use ( RTU)

<b>PNEC</b>	Fresh water; 6.83 mg/l
	marine water; 0.683 mg/l
	STP; 96 mg/l
	Sediment (Freshwater); 27.5 mg/kg
	Sediment (Marinewater); 2.75 mg/kg
	Soil; 1.49 mg/kg

### Polypropylene Glycol (CAS: 25322-69-4)

<b>DNEL</b>	Workers - Inhalation; Long term local effects: 10 mg/m <sup>3</sup>
	Workers - Dermal; Long term systemic effects: 84 mg/kg bw/day
	General population - Inhalation; Long term systemic effects: 10 mg/m <sup>3</sup>
	General population - Dermal; Long term systemic effects: 51 mg/kg bw/day
	General population - Oral; Long term systemic effects: 24 mg/kg bw/day

<b>PNEC</b>	Fresh water; 0.1 mg/l
	marine water; 0.01 mg/l
	Intermittent release; 1 mg/l
	STP; 100 mg/l
	Sediment (Freshwater); 0.765 mg/kg sediment dw
	Sediment (Marinewater); 0.0765 mg/kg sediment dw
	Soil; 0.109 mg/kg soil dw

### D11014A CHROMATINT URANINE CONC (Yellow) (CAS: 518-47-8)

**Ingredient comments** WEL = Workplace Exposure Limits

## 8.2. Exposure controls

### Protective equipment



<b>Appropriate engineering controls</b>	No specific ventilation requirements.
<b>Eye/face protection</b>	Wear chemical splash goggles.
<b>Hand protection</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, gloves should comply with European Standard EN374.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
<b>Hygiene measures</b>	Do not smoke in work area. Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands thoroughly after handling.
<b>Respiratory protection</b>	No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Clear liquid.
<b>Colour</b>	Yellow.
<b>Odour</b>	Mild. Characteristic.

## Prestone Anti Freeze Ready To Use ( RTU)

<b>pH</b>	pH (concentrated solution): 8.5-9.0
<b>Flash point</b>	> 100°C Closed cup.
<b>Relative density</b>	~1.070 @ °C
<b>Solubility(ies)</b>	Soluble in water.

### 9.2. Other information

<b>Refractive index</b>	1.3868
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	The reactivity data for this product will be typical of those for the following class of materials: Organic compounds - aliphatic. Alcohols, glycols.
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### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures.
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### 10.3. Possibility of hazardous reactions

### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid contact with the following materials: Acids. Oxidising agents.
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### 10.5. Incompatible materials

### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Oxides of carbon. Oxides of nitrogen.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Toxicological effects</b>	No information available.
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#### Acute toxicity - oral

<b>Notes (oral LD<sub>50</sub>)</b>	Harmful if swallowed.
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<b>ATE oral (mg/kg)</b>	999.54
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#### Acute toxicity - dermal

<b>Notes (dermal LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
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#### Acute toxicity - inhalation

<b>Notes (inhalation LC<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
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#### Skin corrosion/irritation

<b>Skin corrosion/irritation</b>	Based on available data the classification criteria are not met.
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#### Serious eye damage/irritation

<b>Serious eye damage/irritation</b>	Based on available data the classification criteria are not met.
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#### Respiratory sensitisation

<b>Respiratory sensitisation</b>	Based on available data the classification criteria are not met.
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#### Skin sensitisation

<b>Skin sensitisation</b>	Based on available data the classification criteria are not met.
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#### Germ cell mutagenicity



## Prestone Anti Freeze Ready To Use ( RTU)

<b>Genotoxicity - in vitro</b>	Based on available data the classification criteria are not met.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Based on available data the classification criteria are not met.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Conclusive data but not sufficient for classification.
<b>Reproductive toxicity - development</b>	Contains an ingredient listed as: Repr. 2
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	No information available.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Prolonged or repeated exposure may cause the following adverse effects: Liver and/or kidney damage.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Not relevant.
<b><u>Inhalation</u></b>	
<b>Inhalation</b>	This is unlikely to occur but symptoms similar to those of ingestion may develop.
<b><u>Ingestion</u></b>	
<b>Ingestion</b>	Harmful if swallowed. Swallowing concentrated chemical may cause severe internal injury.
<b><u>Skin contact</u></b>	
<b>Skin contact</b>	No adverse effects known. Prolonged skin contact may cause redness and irritation.
<b><u>Eye contact</u></b>	
<b>Eye contact</b>	May be slightly irritating to eyes. Prolonged contact may cause redness and/or tearing.
<b><u>Route of exposure</u></b>	
<b>Route of exposure</b>	Inhalation Skin and/or eye contact

### Toxicological information on ingredients.

#### ETHANEDIOL

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Harmful if swallowed.

**ATE oral (mg/kg)** 500.0

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> > 3500 mg/kg, Dermal, Mouse

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LC50 > 2.5 mg/l, Inhalation, Rat

##### Skin corrosion/irritation

**Skin corrosion/irritation** Not irritating.

##### Serious eye damage/irritation

**Serious eye damage/irritation** Based on available data the classification criteria are not met.

##### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

##### Skin sensitisation

**Skin sensitisation** Not sensitising.

## Prestone Anti Freeze Ready To Use ( RTU)

### Germ cell mutagenicity

**Genotoxicity - in vitro** Negative.

**Genotoxicity - in vivo** Negative.

### Carcinogenicity

**Carcinogenicity** No evidence of carcinogenicity in animal studies. Based on available data the classification criteria are not met.

### Reproductive toxicity

**Reproductive toxicity - fertility** Three-generation study - NOAEL > 1000 mg/kg bw/day, Oral, Rat F2 Fertility - NOEL 1000 mg/kg bw/day, Oral, Mouse F1

**Reproductive toxicity - development** No evidence of reproductive toxicity in animal studies.

### Specific target organ toxicity - single exposure

**STOT - single exposure** Based on available data the classification criteria are not met.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Prolonged or repeated exposure may cause the following adverse effects: Liver and/or kidney damage.

### Aspiration hazard

**Aspiration hazard** Not relevant.

**Inhalation** No specific health hazards known.

**Ingestion** Harmful if swallowed.

**Skin contact** May be slightly irritating to skin.

**Eye contact** May be slightly irritating to eyes.

### 2-Ethylhexanoic Acid

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> 2043 mg/kg, Oral, Rat

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> > 2000 mg/kg, Dermal, Rat

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LC0 0.11 mg/m<sup>3</sup>, Inhalation, Rat

#### Skin corrosion/irritation

**Skin corrosion/irritation** Not irritating.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Based on available data the classification criteria are not met.

#### Respiratory sensitisation

**Respiratory sensitisation** No information available.

#### Skin sensitisation

## Prestone Anti Freeze Ready To Use ( RTU)

<b>Skin sensitisation</b>	Not sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Negative.
<b>Genotoxicity - in vivo</b>	Negative.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	No information available.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Fertility - NOAEL 800 mg/kg bw/day, Oral, Rat F2 Suspected of damaging fertility.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Based on available data the classification criteria are not met.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Not relevant.

### SODIUM HYDROXIDE

<b><u>Acute toxicity - oral</u></b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	500.0
<b>Species</b>	Rat
<b>Notes (oral LD<sub>50</sub>)</b>	Not applicable. REACH dossier information.
<b><u>Acute toxicity - dermal</u></b>	
<b>Notes (dermal LD<sub>50</sub>)</b>	Not applicable. REACH dossier information.
<b><u>Acute toxicity - inhalation</u></b>	
<b>Notes (inhalation LC<sub>50</sub>)</b>	Not applicable. REACH dossier information.
<b><u>Skin corrosion/irritation</u></b>	
<b>Skin corrosion/irritation</b>	Causes severe burns.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Causes serious eye damage.
<b><u>Respiratory sensitisation</u></b>	
<b>Respiratory sensitisation</b>	No information available.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Not sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Negative.
<b>Genotoxicity - in vivo</b>	Negative.

## Prestone Anti Freeze Ready To Use ( RTU)

### Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

### Reproductive toxicity

**Reproductive toxicity - fertility** Scientifically unjustified. REACH dossier information.

**Reproductive toxicity - development** This substance has no evidence of toxicity to reproduction.

### Specific target organ toxicity - single exposure

**STOT - single exposure** Based on available data the classification criteria are not met.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Based on available data the classification criteria are not met.

### Aspiration hazard

**Aspiration hazard** Not relevant.

### sodium 4(or 5)-methyl-1H-benzotriazole

### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 800.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> 735 mg/kg, Oral, Rat Harmful if swallowed.

**ATE oral (mg/kg)** 800.0

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> > 2000 mg/kg, Dermal, Rabbit

### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** No information available.

### Skin corrosion/irritation

**Skin corrosion/irritation** Causes severe burns.

### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye damage.

### Respiratory sensitisation

**Respiratory sensitisation** Not sensitising. REACH dossier information.

### Skin sensitisation

**Skin sensitisation** Not sensitising.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Negative.

**Genotoxicity - in vivo** Negative.

### Carcinogenicity

**Carcinogenicity** No information available.

## Prestone Anti Freeze Ready To Use ( RTU)

### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met. REACH dossier information.

**Reproductive toxicity - development** Repr. 2

### Specific target organ toxicity - single exposure

**STOT - single exposure** Based on available data the classification criteria are not met.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Based on available data the classification criteria are not met.

### Aspiration hazard

**Aspiration hazard** Not relevant.

## PROPAN-1-OL

### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,400.0

**Species** Rat

### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 4,032.0

**Species** Rabbit

### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 33.8

**Species** Rat

### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye damage.

## D11014A CHROMATINT URANINE CONC (Yellow)

**Inhalation** No specific health hazards known.

**Ingestion** May cause discomfort if swallowed. May cause stomach pain or vomiting.

**Skin contact** Prolonged and frequent contact may cause redness and irritation.

**Eye contact** May cause eye irritation.

**Acute and chronic health hazards** This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

## SECTION 12: Ecological information

**Ecotoxicity** The product components are not classified as environmentally hazardous.

### Ecological information on ingredients.

## Prestone Anti Freeze Ready To Use ( RTU)

### sodium 4(or 5)-methyl-1H-benzotriazole

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

### D11014A CHROMATINT URANINE CONC (Yellow)

**Ecotoxicity** Not regarded as dangerous for the environment. The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

#### 12.1. Toxicity

##### Acute aquatic toxicity

**Acute toxicity - fish** No information available.

**Acute toxicity - aquatic invertebrates** Not available.

**Acute toxicity - aquatic plants** Not available.

**Acute toxicity - microorganisms** Not available.

**Acute toxicity - terrestrial** Not available.

##### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** Not available.

**Short term toxicity - embryo and sac fry stages** Not available.

**Chronic toxicity - aquatic invertebrates** Not available.

##### Ecological information on ingredients.

### ETHANEDIOL

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 72860 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: > 100 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** IC<sub>50</sub>, 96 hours: 10940 mg/l, Pseudokirchneriella subcapitata

**Acute toxicity - microorganisms** EC<sub>20</sub>, 30 minutes: 1995 mg/l, Activated sludge  
Read-across data.

##### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** LC<sub>50</sub>, 28 days: > 1500 mg/l, Menidia peninsulae (Tidewater silverside)

**Chronic toxicity - aquatic invertebrates** EC<sub>50</sub>, 21 days: > 100 mg/l, Daphnia magna

### 2-Ethylhexanoic Acid

##### Acute aquatic toxicity

## Prestone Anti Freeze Ready To Use ( RTU)

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: > 100 mg/l, Oryzias latipes (Red killifish)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 85.4 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: 485.1 mg/l, Pseudokirchneriella subcapitata
<b><u>Chronic aquatic toxicity</u></b>	
<b>Chronic toxicity - aquatic invertebrates</b>	EC10, LC10, NOEC, 21 days: 19.9 mg/l, Daphnia magna

### SODIUM HYDROXIDE

#### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 33-189 hours: 96 mg/l, Fish LC <sub>50</sub> , 45.5 hours: 96 mg/l, Oncorhynchus mykiss (Rainbow trout)
<b>Acute toxicity - aquatic invertebrates</b>	LC <sub>50</sub> , 48 hours: 30 - < 1000 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	Scientifically unjustified.
<b>Acute toxicity - microorganisms</b>	EC10, 2 minutes: 161 mg/l, Tetrahymena Thermophila EC <sub>50</sub> , 15 minutes: 22 mg/l, Photobacterium phosphoreum luminescence inhibition study

#### Chronic aquatic toxicity

<b>Chronic toxicity - fish early life stage</b>	Not available.
<b>Short term toxicity - embryo and sac fry stages</b>	Not available.
<b>Chronic toxicity - aquatic invertebrates</b>	Not applicable.

### sodium 4(or 5)-methyl-1H-benzotriazole

#### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 180 mg/l, Brachydanio rerio (Zebra Fish) LC <sub>50</sub> , 96 hours: 55 mg/l, Cyprinodon variegatus (Sheepshead minnow)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 8.58 mg/l, Daphnia galeata LC <sub>50</sub> , 48 hours: 55 mg/l, Acartia tonsa
<b>Acute toxicity - aquatic plants</b>	ErC50, 72 hours: 75 mg/l, Pseudokirchneriella subcapitata EC10, 72 hours: 1.18 - 2.86 mg/l, Desmodesmus subspicatus EC <sub>50</sub> , 72 hours: 52 mg/l, Skeletonema costatum EC10, 72 hours: 36 mg/l, Skeletonema costatum EC90, 72 hours: 83 mg/l, Skeletonema costatum NOEC, 72 hours: 30 mg/l, Skeletonema costatum EC10, 7 days: 2.11 mg/l, Lemna minor
<b>Acute toxicity - microorganisms</b>	EC <sub>50</sub> , 3 hours: 1060 mg/l, Activated sludge EC10, NOEC, 3 hours: 394 mg/l, Activated sludge
<b><u>Chronic aquatic toxicity</u></b>	

## Prestone Anti Freeze Ready To Use ( RTU)

**Chronic toxicity - aquatic invertebrates** EC<sub>50</sub>, 21 days: > 37.6 mg/l, Daphnia magna  
NOEC, 21 days: 18.4 mg/l, Daphnia magna  
EC10, 21 days: 0.4 - 0.97 mg/l, Daphnia galeata

### PROPAN-1-OL

#### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 4555 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 3644 mg/l, Daphnia magna  
NOEC, 21 days: > 100 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** IC<sub>50</sub>, 72 hours: > 1000 mg/l, Algae

### 12.2. Persistence and degradability

**Persistence and degradability** The product is expected to be biodegradable.

#### Ecological information on ingredients.

### ETHANEDIOL

**Persistence and degradability** 10 days 90-100% Rapidly degradable

### SODIUM HYDROXIDE

**Persistence and degradability** No data available.

**Stability (hydrolysis)** Scientifically unjustified.  
REACH dossier information.

### sodium 4(or 5)-methyl-1H-benzotriazole

**Persistence and degradability** Not readily biodegradable.

**Phototransformation** Air - Half-life : 3.9 days

**Stability (hydrolysis)** pH4, pH7, pH9 - Degradation 0: 5 days @ 50 +/- 0.5°C

**Biodegradation** Soil - Half-life : 180 days

### PROPAN-1-OL

**Persistence and degradability** The substance is readily biodegradable. 83%; 28 days

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No specific test data are available.

#### Ecological information on ingredients.

### ETHANEDIOL

**Partition coefficient** log Pow: -1.36 QSAR data.

### SODIUM HYDROXIDE



## Prestone Anti Freeze Ready To Use ( RTU)

**Bioaccumulative potential** No potential for bioaccumulation.

**Partition coefficient** No information required. REACH dossier information.

### sodium 4(or 5)-methyl-1H-benzotriazolid

**Bioaccumulative potential** BCF: 2.422 L/kg, QSAR Bioaccumulation is unlikely. REACH dossier information.

**Partition coefficient** log Pow: 1.087

### PROPAN-1-OL

**Partition coefficient** log Pow: 0.25

#### 12.4. Mobility in soil

**Mobility** The product is partly soluble in water and may spread in the aquatic environment.

#### Ecological information on ingredients.

### sodium 4(or 5)-methyl-1H-benzotriazolid

**Adsorption/desorption coefficient** - Koc: 110 @ 20°C

#### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

#### Ecological information on ingredients.

### ETHANEDIOL

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 2-Ethylhexanoic Acid

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### SODIUM HYDROXIDE

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### sodium 4(or 5)-methyl-1H-benzotriazolid

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### 12.6. Other adverse effects

**Other adverse effects** None known.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## Prestone Anti Freeze Ready To Use ( RTU)

### SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

#### 14.3. Transport hazard class(es)

No transport warning sign required.

#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

No.

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

**Transport in bulk according to** Not applicable.

**Annex II of MARPOL 73/78  
and the IBC Code**

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**National regulations** The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

**EU legislation** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).  
Commission Regulation (EU) No 2015/830 of 28 May 2015.

#### 15.2. Chemical safety assessment

### SECTION 16: Other information

## Prestone Anti Freeze Ready To Use ( RTU)

### Abbreviations and acronyms used in the safety data sheet

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate.

BOD: Biochemical Oxygen Demand.

CAS: Chemical Abstracts Service.

DNEL: Derived No Effect Level.

EC<sub>50</sub>: 50% of maximal Effective Concentration.

GHS: Globally Harmonized System.

IARC: International Agency for Research on Cancer.

IATA: International Air Transport Association.

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.

LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).

LOAEC: Lowest Observed Adverse Effect Concentration.

LOAEL: Lowest Observed Adverse Effect Level.

NOAEC: No Observed Adverse Effect Concentration.

NOAEL: No Observed Adverse Effect Level.

NOEC: No Observed Effect Concentration.

PBT: Persistent, Bioaccumulative and Toxic substance.

PNEC: Predicted No Effect Concentration.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.

RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.

SVHC: Substances of Very High Concern.

UVCB - Unknown or variable composition, complex reaction products or Biological materials.

vPvB: Very Persistent and Very Bioaccumulative.

**Revision date** 29/01/2021

**Revision** 6

**Supersedes date** 25/10/2019

**SDS number** 14407

**Hazard statements in full**

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H361d Suspected of damaging the unborn child.

H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure if swallowed.

H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.