



# Zitrec Drinkwater Antifreeze NSF-HT1

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Date of issue: 18/06/2014 Revision date: 09/10/2018 Supersedes: 03/02/2016 Version: 2.3

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Zitrec Drinkwater Antifreeze NSF-HT1  
Product code : 836  
Article number : 83600

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

##### 1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only  
Function or use category : Antifreeze/Coolant

##### 1.2.2. Uses advised against

No additional information available

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

BARDAHL NL - OCD NEDERLAND BV  
Maxwellstraat 41  
3316 GP Dordrecht - Nederland  
T 0031 78 651 2322 - F 0031 78 617 4848  
[rjjonker@bardahl.nl](mailto:rjjonker@bardahl.nl) - [www.bardahl.nl](http://www.bardahl.nl)

#### 1.4. Emergency telephone number

Emergency number : +31 (0) 6 2908 2010  
During office hours: 8.30 t/m 17:00 h

Country	Official advisory body	Address	Emergency number	Comment
	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	

### SECTION 2: Hazards identification

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

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II)

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

#### Adverse physicochemical, human health and environmental effects

This product is not classified as hazardous.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

#### 2.3. Other hazards

PBT: not relevant – no registration required

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Propane-1,2-diol	(CAS-No.) 57-55-6 (EC-No.) 200-338-0	60 - 99	Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation	: Assure fresh air breathing. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Do NOT induce vomiting. Seek medical advice (show the label where possible).

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

Symptoms/effects after inhalation	: Not expected to be harmful if inhaled.
Symptoms/effects after skin contact	: Contact with the skin is not expected to be harmful.
Symptoms/effects after eye contact	: Not expected to cause prolonged or significant eye irritation.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Water haze. Foam. Dry chemical. Carbon dioxide.

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

Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. Not unidentified organic compounds.

#### 5.3. Advice for firefighters

Firefighting instructions : This material will burn, although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

### SECTION 6: Accidental release measures

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

General measures : Eliminate every possible source of ignition. See Heading 5. See Heading 8.

##### 6.1.1. For non-emergency personnel

No additional information available

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Clean up even minor leaks or spills, if possible, without unnecessary risk. Use appropriate container to avoid environmental contamination.

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

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. On land, sweep or shovel into suitable containers. Take up large spills with pump or vacuum. Dispose in a safe manner in accordance with local/national regulations. Notify authorities if product enters sewers or public waters.

#### 6.4. Reference to other sections

See Heading 8. See Heading 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Prevent entry to sewers and public waters. Use grounded electrical/mechanical equipment. Never use pressure to empty container. Container under pressure. Do not drill or burn even after use.

Hygiene measures : Avoid contact with skin and eyes. Wash contaminated clothing before reuse. Do NOT taste or swallow.

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

Storage conditions : Prevent entry to sewers and public waters. Take precautionary measures against static discharges. Never pressurise packagings as they will not resist.

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

Consider the potential hazards of this material (See section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances. Refer to appropriate CEN standards.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Propane-1,2-diol (57-55-6)

United Kingdom	WEL TWA (mg/m <sup>3</sup> )	474 mg/m <sup>3</sup>
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Additional information : Consider the potential hazards of this material (See section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances. Refer to appropriate GEN standards.

#### 8.2. Exposure controls

##### Hand protection:

Gloves material: Nitrile. Polyvinylchloride (PVC) . neoprene/natural rubber

##### Eye protection:

Use eye protection according to EN 166, designed to protect against liquid splashes.

##### Skin and body protection:

Wear suitable protective clothing

##### Respiratory protection:

No special protection required where adequate ventilation is maintained.

##### Other information:

Good ventilation of the workplace required.

### SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Colourless.
Odour	: mild.
Odour threshold	: No data available
pH	: 9.7 - 10.1
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 164 °C (327.2°F) (Typical)
Flash point	: 100 °C (212°F) (Pensky-Martens Closed Cup)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1 kg/l (20°C / 68°F)
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: > 7 mm <sup>2</sup> /s (20°C / 20°F)
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 2.6 - 12.5 vol %

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Strong acids. Strong oxidisers. Chlorates. Nitrates. Peroxides.

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### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

None known.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008
Acute toxicity (dermal)	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008
Acute toxicity (inhalation)	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008
Skin corrosion/irritation	: The hazard is based on evaluation of data for similar materials or product components. pH: 9.7 - 10.1
Serious eye damage/irritation	: The hazard is based on evaluation of data for similar materials or product components. pH: 9.7 - 10.1
Respiratory or skin sensitisation	: The hazard is based on evaluation of data for similar materials or product components.
Germ cell mutagenicity	: The hazard is based on evaluation of data for similar materials or product components.
Carcinogenicity	: The hazard is based on evaluation of data for similar materials or product components.
Reproductive toxicity	: The hazard is based on evaluation of data for similar materials or product components.
STOT-single exposure	: The hazard is based on evaluation of data for similar materials or product components.
STOT-repeated exposure	: The hazard is based on evaluation of data for similar materials or product components.
Aspiration hazard	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

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Viscosity, kinematic	> 7 mm <sup>2</sup> /s (20°C / 20°F)
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## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: Not harmful to aquatic organisms. Not tested.
Acute aquatic toxicity	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008
Chronic aquatic toxicity	: Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

### 12.2. Persistence and degradability

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Persistence and degradability	Not tested.
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### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

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PBT: not relevant – no registration required

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Packaging that cannot be reused after cleaning must be disposed of or recycled in accordance with federal, national and local regulations.
European List of Waste (LoW) code	: 16 01 15 - antifreeze fluids other than those mentioned in 16 01 14

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No

No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

No data available

#### Transport by sea

No data available

#### Air transport

No data available

#### Inland waterway transport

No data available

#### Rail transport

No data available

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Directive 2012/18/EU (SEVESO III)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No

## SECTION 16: Other information

### Indication of changes:

Section	Changed item	Change	Comments
7.1	Precautions for safe handling	Added	
7.3	Specific end uses	Modified	
10.1	Reactivity	Modified	
10.5	Incompatible materials	Removed	
12.2	Persistence and degradability	Modified	

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### Abbreviations and acronyms:

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RID: Regulations Concerning the International Transport of Dangerous Goods by Rail  
ICAO: International Civil Aviation Organization  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*