

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 18/06/2014 Revision date: 18/04/2023 Supersedes version of: 20/12/2021 Version: 2.5

# 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 Function or use category : For professional use only : 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 mjkooijman@bardahl.nl - www.bardahl.nl

#### **1.4. Emergency telephone number**

Emergency number

: +31 (0) 6 54924171 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	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals

## **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

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

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#### 2.3. Other hazards

#### PBT: not relevant – no registration required

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

# **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	30 – 99	Not classified

4.1. Description of first aid measures	
First-aid measures after inhalation	: Allow affected person to breathe fresh air.
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. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Seek medical attention if irritation develops. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Do NOT induce vomiting. Rinse mouth out with water. Drink plenty of water. Never give anything by mouth to an unconscious person. Seek medical attention if ill effect develops

No additional information available

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 Unsuitable extinguishing media	<ul><li>Water haze. Foam. Dry powder. Carbon dioxide.</li><li>Do not use a heavy water stream.</li></ul>
5.2. Special hazards arising from the se	ubstance or mixture
Fire hazard	: Flammable/combustible material.
5.3. Advice for firefighters	
Firefighting instructions Protection during firefighting	<ul><li>Use water spray or fog for cooling exposed containers.</li><li>Use self-contained breathing apparatus. Wear suitable protective clothing.</li></ul>

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SECTION 6: Accidental release mea	asures		
6.1. Personal precautions, protective ed	auipment and emergency procedures		
6.1.1. For non-emergency personnel			
No additional information available			
6.1.2. For emergency responders			
No additional information available			
No additional information available			
6.2. Environmental precautions			
Prevent liquid from entering sewers, watercourses, underground or low areas.			
Trevent liquid from entening sewers, watercours	es, underground of low areas.		
6.3. Methods and material for containm	ent and cleaning up		
Methods for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it. On land,		
we not so cleaning up	sweep or shovel into suitable containers.		
6.4. Deference to other costions			

For disposal of solid materials or residues refer to section 13 : "Disposal considerations". For further information refer to section 8: "Exposure controls/personal protection". For further information see section 1.

SECTION 7: Handling and stora	age
7.1. Precautions for safe handling	
Precautions for safe handling	: Handle in accordance with good industrial hygiene and safety procedures. Avoid contact with skin and eyes. Good ventilation of the workplace required. No smoking.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, in	cluding any incompatibilities
Storage conditions Incompatible products	<ul> <li>Keep container closed when not in use. Keep away from sources of ignition - No smoking.</li> <li>Strong oxidizers. Sources of ignition.</li> </ul>

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection	
8.1. Control parameters	
8.1.1 National occupational exposure and biological limit values	
Propane-1,2-diol (57-55-6)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1] 474 mg/m <sup>3</sup>	

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

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#### 8.1.4. DNEL and PNEC

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 CEN standards.

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

# No additional information available

# 8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

Eye protection			
Туре	Field of application	Characteristics	Standard
Safety glasses			

#### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear suitable protective clothing

Hand protection					
Type         Material         Permeation         Thickness (mm)         Penetration         Standard				Standard	
Safety gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR)				

#### 8.2.2.3. Respiratory protection

Respiratory protection			
Device	Filter type	Condition	Standard
In case of insufficient ventilation, wear suitable respiratory equipment	Туре А		

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Prevent entry to sewers and public waters.

#### Other information:

Good ventilation of the workplace required.

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SECTION 9: Physical and chemical pr	operties	
9.1. Information on basic physical and chemical properties		
Physical state Colour Odour Odour threshold Melting point Freezing point Boiling point Flammability Lower explosion limit Upper explosion limit Flash point Auto-ignition temperature Decomposition temperature pH Viscosity, kinematic Solubility Partition coefficient n-octanol/water (Log Kow) Vapour pressure Vapour pressure at 50°C Density Relative density Relative vapour density at 20°C	: Liquid : Colourless. : mild. : Not available : Not available : Not available : 163 °C : Not available : Soluble in water. : Not available : Not available	
Particle characteristics 9.2. Other information	: Not applicable	
9.2.1. Information with regard to physical hazard	d classes	
Explosion limits	: 2.6 – 12.5 vol %	
9.2.2. Other safety characteristics No additional information available		
SECTION 10: Stability and reactivity		

### 10.1. Reactivity

No additional information available

**10.2. Chemical stability** 

Stable under normal conditions.

**10.3. Possibility of hazardous reactions** 

No additional information available

10.4. Conditions to avoid

Heat. Sources of ignition.

10.5. Incompatible materials

Strong oxidizers.

**10.6. Hazardous decomposition products** 

At high temperature may liberate dangerous gases. Carbon dioxide. Aldehydes. ketones.

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11.1. Information on hazard classe	s as defined in Regulation (EC) No 1272/2008
Acute toxicity (oral)	: Health hazard if ingested in large quantities
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: In high concentrations : May cause irritation to skin.
Skin corrosion/irritation	: Repeated or prolonged contact may cause skin irritation pH: 9.8 100%
Serious eye damage/irritation	: May cause eye irritation pH: 9.8 100%
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Zitrec Drinkwater Antifreeze NSF-I	iT1
Viscosity, kinematic	> 7 mm²/s (20°C)

No additional information available

SECTION 12: Ecological information	
12.1. Toxicity	
Hazardous to the aquatic environment, short-term : (acute)	Not harmful to aquatic organisms. Not tested. Not classified Not classified
12.2. Persistence and degradability	
Zitrec Drinkwater Antifreeze NSF-HT1	
Persistence and degradability	Readily biodegradable.
12.3. Bioaccumulative potential No additional information available	
12.4. Mobility in soil	
Zitrec Drinkwater Antifreeze NSF-HT1	
Additional information	The product is mobile in an aqueous environment. Harmful to the environment
12.5. Results of PBT and vPvB assessment	
Zitrec Drinkwater Antifreeze NSF-HT1	
PBT: not relevant – no registration required	
12.6. Endocrine disrupting properties	
No additional information available	

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#### 12.7. Other adverse effects

No additional information available

# SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

Waste treatment methods Sewage disposal recommendations Product/Packaging disposal recommendations European List of Waste (LoW) code

- : Dispose of the material collected according to regulations.
  - Do not discharge into drains or the environment.
- : This material and its container must be disposed of as hazardous waste.
- : 16 01 15 antifreeze fluids other than those mentioned in 16 01 14

## **SECTION 14: Transport information**

ADR	IMDG	ΙΑΤΑ	ADN	RID
4.1. UN number or ID r	number			
lot regulated for transport				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
I4.2. UN proper shippin	ig name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
I4.3. Transport hazard	class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
I4.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental ha	zards			
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

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. Maritime transport in bulk according to IMO instruments

Not applicable

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#### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### **SECTION 16: Other information**

Indication of changes			
Section	Changed item	Change	Comments
	Serious eye damage/irritation - comment	Modified	
	Skin corrosion/irritation - comment	Modified	
	Acute toxicity (inhalation) - comment	Added	
	Acute toxicity (oral) - comment	Added	
3	Composition/information on ingredients	Modified	
4.1	First-aid measures after skin contact	Modified	
4.1	First-aid measures after inhalation	Modified	
4.1	First-aid measures after ingestion	Modified	
4.1	First-aid measures after eye contact	Modified	
5.1	Unsuitable extinguishing media	Added	
5.1	Suitable extinguishing media	Modified	
5.2	Fire hazard	Added	
5.3	Protection during firefighting	Added	

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Indication of changes			
Section	Changed item	Change	Comments
5.3	Firefighting instructions	Modified	
6.2	Environmental precautions	Modified	
6.3	Methods for cleaning up	Modified	
6.4	Reference to other sections (8, 13)	Modified	
7.1	Precautions for safe handling	Modified	
7.1	Hygiene measures	Modified	
7.2	Incompatible products	Added	
7.2	Storage conditions	Modified	
8.2	Environmental exposure controls	Added	
9.1	Viscosity, kinematic	Modified	
9.1	Density	Modified	
9.1	Flash point	Modified	
9.1	Boiling point	Modified	
9.1	рН	Modified	
10.4	Conditions to avoid	Added	
10.5	Incompatible materials	Added	
10.6	Hazardous decomposition products	Modified	
12.2	Persistence and degradability	Modified	
13.1	Waste disposal recommendations	Modified	
13.1	Sewage disposal recommendations	Added	
13.1	Waste treatment methods	Added	
15.2	Chemical safety assessment	Modified	

breviations and acronyms:	
	Abbreviations and acronyms:
	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

Safety Data Sheet (SDS), EU

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.