

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 30/01/2023 Revision date: 30/01/2023 Version: 1.0

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

1.1. Product identifierProduct form: MixtureProduct name: HG freezer de-icerUFI: AJR4-1JR4-W10G-V2X9Product code: 539 ARTType of product: DetergentProduct group: End product

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

1.2.1. Relevant identified uses

Intended for general public Main use category

: Consumer use

1.2.2. Uses advised against

Restrictions on use

: All other uses not recommended above

1.3. Details of the supplier of the safety data sheet

Manufacturer	Importer
HG International B.V.	HG UKI LTD
P.J. Oudweg 41	Weston Business Centre
NL– 1314 CJ Almere	Parsonage Road
The Netherlands	UK– CM22 6PU Takeley – Essex
T +31 (0)36 54 94 700	United Kingdom
<u>safety@hg.eu</u> - <u>www.hg.eu</u>	T +44 (0) 1206 822 744
	www.hg.eu

1.4. Emergency telephone number

Emergency number

: +31 (0)36 54 94 777 Only for medical personnel Mon-Fri 09:00 AM - 05:00 PM (CEST)

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 2	H225
Serious eye damage/eye irritation, Category 2	H319
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. May cause drowsiness or dizziness. Causes serious eye irritation.

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2.2. Label elements

Labelling according to Regulation (EC) No	. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS02 GHS07
Signal word (CLP)	: Danger
Contains	: propan-2-ol; isopropyl alcohol; isopropanol
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour.
	H319 - Causes serious eye irritation.
	H336 - May cause drowsiness or dizziness.
Precautionary statements (CLP)	: P101 - If medical advice is needed, have product container or label at hand.
	P102 - Keep out of reach of children.
	P210 - Keep away from heat. No smoking.
	P264 - Wash hands thoroughly after handling.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	P312 - Call doctor if you feel unwell.
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
2.3 Other hazards	

2.3. Other hazards

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 substances 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	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
propan-2-ol; isopropyl alcohol; isopropanol	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0 REACH-no: 01-2119457558- 25	≥ 50 – < 75	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	CAS-No.: 68891-38-3 EC-No.: 500-234-8 REACH-no: 01-2119488639- 16	≥ 0.1 – < 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412

Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	CAS-No.: 68891-38-3 EC-No.: 500-234-8 REACH-no: 01-2119488639- 16	(5 ≤C < 10) Eye Irrit. 2, H319 (10 ≤C < 100) Eye Dam. 1, H318	
Full text of H- and EUH-statements; see section 16			

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SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	 Call a poison center or a doctor if you feel unwell. Remove person to fresh air and keep comfortable for breathing. Rinse skin with water/shower. Take off immediately all contaminated clothing. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effects	s, both acute and delayed
Symptoms/effects Symptoms/effects after eye contact	May cause drowsiness or dizziness.Eye irritation.
4.3. Indication of any immediate medical a	attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media Unsuitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.Do not use a heavy water stream.		
5.2. Special hazards arising from the substance or mixture			
Fire hazard Hazardous decomposition products in case of fire	Highly flammable liquid and vapour.Toxic fumes may be released.		
5.3. Advice for firefighters			
Precautionary measures fire Protection during firefighting	 Eliminate all ignition sources if safe to do so. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. 		

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equip	pment and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing mist, vapours. Avoid contact with skin and eyes. Do not touch or walk on the spilled product. In case of important spillage : Evacuate area. Only qualified personnel equipped with suitable protective equipment may intervene. Notify fire brigade and environmental authorities.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for containment	and cleaning up		
For containment Methods for cleaning up	 Stop leak if safe to do so. Take up liquid spill into absorbent material. Notify authorities if product enters sewers or 		

public waters. Use non-sparking tools.

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Other information

: Collect all waste in suitable and labelled containers and dispose according to local legislation.

6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage	je
7.1. Precautions for safe handling	
Additional hazards when processed	: Flammable vapours may accumulate in the container. Vapours may form flammable and explosive mixture with air.
Precautions for safe handling Hygiene measures	 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing mist, vapours. Avoid contact with skin and eyes. Ensure good ventilation of the work station. in accordance with ATEX directives. Do not eat, drink or smoke when using this product. Always wash hands after handling the
7.2. Conditions for safe storage, incl	product.
Technical measures	
Storage conditions	 Ground/bond container and receiving equipment. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Protect from sunlight. Store in a well-ventilated place.
Incompatible products	: Oxidizing agent.
Storage temperature	: 0 – 35 °C
Heat and ignition sources Storage area	Keep away from heat and direct sunlight.Store according to local legislation.

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

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)			
Ireland - Occupational Exposure Limits			
Local name	Isopropyl alcohol [Propan-2-ol]		
OEL TWA [2]	200 ppm		
OEL STEL [ppm]	400 ppm		
Remark	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body)		
Regulatory reference	Chemical Agents Code of Practice 2021		
Ireland - Biological limit values			
Local name	2-Propanol		
BMGV	40 mg/l Parameter: acetone - Medium: urine - Sampling time: End of shift at end of workweek - Notations: B (Background), Ns (Non-specific)		
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)		

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8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Large amounts: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Assess the risk of potentially explosive atmospheres and the need for explosion-proof equipment. in accordance with ATEX directives.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses with side shields

Eye protection				
Type Field of application Characteristics Standard				
Safety glasses with side shields	Normal use conditions		EN 166	

8.2.2.2. Skin protection

Skin and body protection:

Long sleeved protective clothing. Chemical resistant safety shoes

Skin and body protection	
Туре	Standard
Chemical resistant safety shoes	EN ISO 20345
Long sleeved protective clothing	

Hand protection:

Protective gloves

Hand protection					
Type Material Permeation Thickness (mm) Penetration Standard					
Disposable gloves	Butyl rubber	6 (> 480 minutes)	0,5		EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

No respiratory protection needed under normal use conditions. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

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Respiratory protection			
Device	Filter type	Condition	Standard
Half-mask	Filter AX (brown)	Mist formation, Vapour protection	EN 405

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

9.1. Information on basic physical and ch	nemical properties
Physical state	: Liquid
Colour	: Colourless.
Appearance	: clear.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: 82 °C
Flammability	: Highly flammable liquid and vapour.
Explosive limits	: Not available
Lower explosion limit	: 2 vol %
Upper explosion limit	: 13.4 vol %
Flash point	: 22 °C Closed cup
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
рН	: <
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 0.89
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

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10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological inform	ation
11.1. Information on hazard classes as	s defined in Regulation (EC) No 1272/2008
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Not classified Not classified Not classified
Alcohols, C12-14, ethoxylated, sulfate	s, sodium salts (68891-38-3)
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 oral	> 2000 mg/kg bodyweight
LD50 dermal rat	≥ 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
LD50 dermal	> 2000 mg/kg bodyweight
propan-2-ol; isopropyl alcohol; isopro	ppanol (67-63-0)
LD50 oral rat	5840 mg/kg Source: ECHA
LD50 oral	4396 mg/kg bodyweight
LD50 dermal rabbit	12800 mg/kg Source: ECHA
LD50 dermal	12800 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	46600 mg/l
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	pH: < : Causes serious eye irritation. pH: <
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity Carcinogenicity	: Not classified : Not classified
propan-2-ol; isopropyl alcohol; isopro	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause drowsiness or dizziness.
propan-2-ol; isopropyl alcohol; isopro	•
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified

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Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)			
LOAEL (oral, rat, 90 days)	25 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity Study in Rodents), Remarks on results: other:		
NOAEL (oral, rat, 90 days)	> 225 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity Study in Rodents), Remarks on results: other:		
Aspiration hazard :	Not classified		
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)			
Viscosity, kinematic 2.658 mm ² /s			
11.2. Information on other hazards			

No additional information available

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general Hazardous to the aquatic environment, short-term (acute) Hazardous to the aquatic environment, long-term (chronic)	 The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Not classified Not classified
Alcohols, C12-14, ethoxylated, sulfates, s	odium salts (68891-38-3)
LC50 - Fish [1]	7.1 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	7.4 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	> 1 mg/l waterflea
EC50 - Other aquatic organisms [2]	> 10 mg/l
EC50 72h - Algae [1]	27.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	27.7 mg/l
NOEC (chronic)	0.27 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.14 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '28 d'
NOEC chronic algae	0.95 mg/l Scenedesmus subspicatus
propan-2-ol; isopropyl alcohol; isopropan	ol (67-63-0)
LC50 - Fish [1]	10000 mg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	9640 mg/l Test organisms (species): Pimephales promelas
EC50 - Other aquatic organisms [1]	13299 mg/l waterflea
EC50 - Other aquatic organisms [2]	> 1000 mg/l
12.2. Persistence and degradability	
Alcohols, C12-14, ethoxylated, sulfates, s	odium salts (68891-38-3)

Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)	
Chemical oxygen demand (COD)	0.51 g O ₂ /g substance
Biodegradation	80 % (OECD 302B method)
Additional information	95 % biodegradation (OECD 301E method)

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12.3. Bioaccumulative potential			
Alcohols, C12-14, ethoxylated, sulfates, sodium salts (68891-38-3)			
Partition coefficient n-octanol/water (Log Pow)	0.3		
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)			
Partition coefficient n-octanol/water (Log Pow) 0.05			
12.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB assessment			
No additional information available			
12.6. Endocrine disrupting properties			
No additional information available			

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) Waste treatment methods Sewage disposal recommendations	 Dispose of in accordance with relevant local regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions. Do not flush down sewers.
Additional information	: Flammable vapours may accumulate in the container.

SECTION 14: Transport information

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

ADR	IMDG	ΙΑΤΑ	ADN	RID	
14.1. UN number or ID number					
UN 1987	UN 1987	UN 1987	UN 1987	UN 1987	
14.2. UN proper shippin	g name				
ALCOHOLS, N.O.S. (MIXTURE ; propan-2-ol; isopropyl alcohol; isopropanol)	ALCOHOLS, N.O.S. (MIXTURE ; propan-2-ol; isopropyl alcohol; isopropanol)	Alcohols, n.o.s. (MIXTURE ; propan-2-ol; isopropyl alcohol; isopropanol)	ALCOHOLS, N.O.S. (MIXTURE ; propan-2-ol; isopropyl alcohol; isopropanol)	ALCOHOLS, N.O.S. (MIXTURE ; propan-2-ol; isopropyl alcohol; isopropanol)	
Transport document descr	iption				
UN 1987 ALCOHOLS, N.O.S. (MIXTURE ; propan- 2-ol; isopropyl alcohol; isopropanol), 3, III, (D/E)	UN 1987 ALCOHOLS, N.O.S. (MIXTURE ; propan- 2-ol; isopropyl alcohol; isopropanol), 3, III	UN 1987 Alcohols, n.o.s. (MIXTURE ; propan-2-ol; isopropyl alcohol; isopropanol), 3, III	UN 1987 ALCOHOLS, N.O.S. (MIXTURE ; propan- 2-ol; isopropyl alcohol; isopropanol), 3, III	UN 1987 ALCOHOLS, N.O.S. (MIXTURE ; propan 2-ol; isopropyl alcohol; isopropanol), 3, III	
14.3. Transport hazard class(es)					
3	3	3	3	3	

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14.4. Packing group		· · · · ·		
III	111	III	III	Ш
14.5. Environmental hazard	ds			
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

Classification code (ADR)	:	F1
Special provisions (ADR)	:	274, 601
Limited quantities (ADR)	:	51
Excepted quantities (ADR)	:	E1
Packing instructions (ADR)	:	P001, IBC03, LP01, R001
Mixed packing provisions (ADR)		MP19
Portable tank and bulk container instructions (ADR)		T4
Portable tank and bulk container instructions (ADIC)	÷	
	•	IF I, IF 2 5
(ADR)		
Tank code (ADR)	:	LGBF
Vehicle for tank carriage	:	FL
Transport category (ADR)	:	3
Special provisions for carriage - Packages (ADR)	:	V12
Special provisions for carriage - Operation (ADR)	:	S2
Hazard identification number (Kemler No.)	:	30
Orange plates	:	20
		30
		100
		1987
Turnel restriction and (ADD)		
Tunnel restriction code (ADR)	:	D/E
Transport by sea		
Special provisions (IMDG)	:	223, 274
Limited quantities (IMDG)	:	5 L
Excepted quantities (IMDG)	:	E1
Packing instructions (IMDG)	:	P001, LP01
IBC packing instructions (IMDG)	:	IBC03
Tank instructions (IMDG)	:	Τ4
Tank special provisions (IMDG)	:	TP1, TP29
EmS-No. (Fire)		F-E
EmS-No. (Spillage)		S-D
		A
Stowage category (IMDG)	·	~
•• •		
Air transport		
PCA Excepted quantities (IATA)	:	E1
PCA Limited quantities (IATA)	:	Y344
PCA limited quantity max net quantity (IATA)	:	10L
PCA packing instructions (IATA)	:	355
PCA max net quantity (IATA)	:	60L
CAO packing instructions (IATA)	:	366
CAO max net quantity (IATA)	:	220L
Special provisions (IATA)	:	A3, A180
ERG code (IATA)	:	3L
Inland waterway transport		
Classification code (ADN)	•	F1
	•	

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Special provisions (ADN) Limited quantities (ADN) Excepted quantities (ADN) Carriage permitted (ADN) Equipment required (ADN) Ventilation (ADN) Number of blue cones/lights (ADN)	: 274, 601 : 5 L : E1 : T : PP, EX, A : VE01 : 0	
Rail transport Classification code (RID) Special provisions (RID) Limited quantities (RID) Excepted quantities (RID) Packing instructions (RID) Mixed packing provisions (RID) Portable tank and bulk container instructions (RID) Portable tank and bulk container special provisions (RID)	 F1 274, 601 5L E1 P001, IBC03, LP01, R0 MP19 T4 TP1, TP29 	01
Tank codes for RID tanks (RID) Transport category (RID) Special provisions for carriage – Packages (RID) Colis express (express parcels) (RID) Hazard identification number (RID)	: LGBF : 3 : W12 : CE4 : 30	

14.7. Maritime transport in bulk according to IMO instruments

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

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)

Detergent Regulation (648/2004)

Labelling of contents			
Component	%		
2-BROMO-2-NITROPROPANE-1,3-DIOL			

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)

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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

Abbreviations and acronyms:				
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			
BCF	Bioconcentration factor			
BLV	Biological limit value			
BOD	Biochemical oxygen demand (BOD)			
COD	Chemical oxygen demand (COD)			
DMEL	Derived Minimal Effect level			
DNEL	Derived-No Effect Level			
EC-No.	European Community number			
EC50	Median effective concentration			
EN	European Standard			
IARC	International Agency for Research on Cancer			
ΙΑΤΑ	International Air Transport Association			
IMDG	International Maritime Dangerous Goods			
LC50	Median lethal concentration			
LD50	Median lethal dose			
LOAEL	Lowest Observed Adverse Effect Level			
NOAEC	No-Observed Adverse Effect Concentration			
NOAEL	No-Observed Adverse Effect Level			
NOEC	No-Observed Effect Concentration			
OECD	Organisation for Economic Co-operation and Development			
OEL	Occupational Exposure Limit			
РВТ	Persistent Bioaccumulative Toxic			
PNEC	Predicted No-Effect Concentration			
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail			
SDS	Safety Data Sheet			
STP	Sewage treatment plant			
ThOD	Theoretical oxygen demand (ThOD)			
TLM	Median Tolerance Limit			

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Abbreviations and acronyms:		
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH	ull text of H- and EUH-statements:	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
H225	Highly flammable liquid and vapour.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
H412	Harmful to aquatic life with long lasting effects.	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis	

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.