

Printing date 15.02.2023

Version number 9 (replaces version 8)

Revision: 10.02.2023

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

· 1.1 Product identifier

- Trade name: BIS UNBLOCKER DUO BO 2X500ML*6 ROBG
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture Cleaning agent/ Cleaner

· 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: **Bison International** Dr.A.F.Philipsstraat 9 NL-4462 EW Goes PO Box 160 NL-4460 AD Goes tel. +31 88 3235700

fax. +31 88 3235800 e mail: sds@boltonadhesives.com

· Further information obtainable from: Bison QESH

· 1.4 Emergency telephone number:

National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week) Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage.

· 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation. Hazard pictograms



Signal word Danger

- · Hazard-determining components of labelling:
- sodium hvdroxide
- · Hazard statements

H314 Causes severe skin burns and eye damage.

- · Precautionary statements
- P101 If medical advice is needed, have product container or label at hand. P102
 - Keep out of reach of children.

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(Contd. of page 1) P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container in accordance with national regulations.

· 2.3 Other hazards

P501

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· **Description:** Cleansing agent

Dangerous components:

	Dangereae componenter		
ſ	CAS: 1310-73-2	sodium hydroxide	25-50%
	EINECS: 215-185-5	Skin Corr. 1A, H314	
	Index number: 011-002-00-6	Specific concentration limits: Skin Corr. 1A; H314: $C \ge 5 \%$	
	Reg.nr.: 01-2119457892-27	Skin Corr. 1B; H314: 2 % ≤ C < 5 %	
		Skin Irrit. 2; H315: 0.5 % ≤ C < 2 %	
		Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	

• Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation:

Call a doctor immediately.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
- Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing:

Rinse out mouth and then drink plenty of water.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions. • 5.2 Special hazards arising from the substance or mixture
- No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
- Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:
- Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
- Send for recovery or disposal in suitable receptacles.
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent.
- Dispose contaminated material as waste according to item 13.
- Ensure adequate ventilation.
- 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about fire and explosion protection: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- · Storage class: 8 B
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:
- 1310-73-2 sodium hydroxide
- OEL (Ireland) Short-term value: 2 mg/m³
- Additional information: The lists valid during the making were used as basis.

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• 8.2 Exposure controls	data: and item 7	
 Appropriate engineering controls No further data; see item 7. Individual protection measures, such as personal protective equipment 		
General protective and hygienic measures:		
The usual precautionary measures are to be ac Keep away from foodstuffs, beverages and fee		
Immediately remove all soiled and contaminate	ed clothing	
Wash hands before breaks and at the end of w Avoid contact with the eyes.	ork.	
Avoid contact with the eyes and skin. • Respiratory protection: Not required. • Hand protection		
Protective gloves		
preparation.	and resistant to the product/ the substance/ the	
	on of the penetration times, rates of diffusion and the	
 Material of gloves Recommended thickness of the material: > 0,1 	2 mm	
Nitrile rubber, NBR	2 11011	
Penetration time of glove material	v the penetration time has to be at least 10 minutes	
(Permeation according to EN 374 Part 3: Level		
Eye/face protection		
Tightly sealed goggles		
Goggles recommended during refilling		
SECTION 9: Physical and chemical p	properties	
9.1 Information on basic physical and chem	ical properties	
 General Information Physical state 	Fluid	
· Colour:	Colourless	
· Odour:	Odourless Not determined	
 Odour threshold: Melting point/freezing point: 	Not determined. Undetermined.	
Boiling point or initial boiling point and		
boiling range	100 °C	
 Flammability Lower and upper explosion limit 	Not applicable.	
· Lower:	Not determined.	
· Upper:	Not determined.	
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Flash point:	Not applicable.
Decomposition temperature:	Not determined.
pH at 20 °C	14
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log	
value)	Not determined.
Vapour pressure at 20 °C:	23 hPa
Density and/or relative density	
Density at 20 °C:	1.565 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
• •	
9.2 Other information	All relevant physical data were determined for the
	mixture. All non-determined data are no
	measurable or not relevant for th
•	characterization of the mixture.
Appearance:	
Form:	Fluid
Important information on protection of heal	th
and environment, and on safety.	
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
Water:	50.0 %
Solids content:	50.0 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical haza	rd
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	volu
flammable gases in contact with water	Void
•	Void Void
Ovidicina liquido	
Oxidising liquids	Void
Oxidising solids	Void
	Void Void Void



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Trade name: BIS UNBLOCKER DUO BO 2X500ML*6 ROBG

Desensitised explosives

Void

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- \cdot 10.3 Possibility of hazardous reactions Corrosive action on metals.
- 10.4 Conditions to avoid No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

1310-73-2 sodium hydroxide

Oral LD50 2000 mg/kg (rat)

· Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity

Not applicable.

- Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- Additional toxicological information:
- · Acute effects (acute toxicity, irritation and corrosivity) Not applicable.
- · Sensitisation Not applicable.
- · Repeated dose toxicity Not applicable.
- · 11.2 Information on other hazards

• Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

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(Contd. of page 6) • **12.2 Persistence and degradability** No further relevant information available. · 12.3 Bioaccumulative potential No further relevant information available. · 12.4 Mobility in soil No further relevant information available. 12.5 Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties. · 12.7 Other adverse effects · Additional ecological information: General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised. Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pHvalues. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous. **SECTION 13: Disposal considerations** · 13.1 Waste treatment methods Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

- · Uncleaned packaging:
- · Recommendation:
- Packagings that may not be cleansed are to be disposed of in the same manner as the product.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

· 14.1 UN number or ID number · ADR/ADN, IMDG, IATA	UN1824
• 14.2 UN proper shipping name • ADR/ADN • IMDG, IATA	1824 SODIUM HYDROXIDE SOLUTION SODIUM HYDROXIDE SOLUTION
14.3 Transport hazard class(es)	
ADR/ADN	
a the second sec	
Class	8 (C5) Corrosive substances.



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	0
· IMDG, IATA	
53	
•	
· Class · Label	8 Corrosive substances.
	8
14.4 Packing group	11
ADR/ADN, IMDG, IATA	
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Corrosive substances.
Hazard identification number (Kemler code EMS Number:): 80 F-A,S-B
· Segregation groups	(SGG18) Alkalis
Stowage Category	A
Segregation Code	SG35 Stow "separated from" SGG1-acids
14.7 Maritime transport in bulk according to	D
IMO instruments	Not applicable.
Transport/Additional information:	
Quantity limitations	On passenger aircraft/rail: 1 L
	On cargo aircraft only: 30 L
ADR/ADN	
Limited quantities (LQ)	1L Code: E2
Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 n
	Maximum net quantity per outer packaging: 50 m
	ml
Transport category	2
Tunnel restriction code	E
	41
Limited quantities (LQ)	1L Codo: E2
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 n
	Maximum net quantity per outer packaging: 50 m
	ml
Remarks:	Under certain conditions substances in Class
	(flammable liquids) can be classified
	packinggroup III.
UN "Model Regulation":	See IMDG, Part 2, Chapter 2.3, Paragraph 2.3.2 UN 1824 SODIUM HYDROXIDE SOLUTION, 8,

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SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

 DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

 Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H314 Causes severe skin burns and eye damage.

· Classification according to Regulation (EC) No 1272/2008		
Skin corrosion/irritation Serious eye damage/irritation	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.	
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LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Corr. 1A: Skin corrosion/irritation – Category 1A Eye Dam. 1: Serious eye damage/eye irritation – Category 1

** Data compared to the previous version altered.



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

1.1 Product identifier

- · Trade name: BIS UNBLOCKER DUO BO 2X500ML*6 ROBG
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- · Application of the substance / the mixture Cleaning agent/ Cleaner

· 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Bison International Dr.A.F.Philipsstraat 9 NL-4462 EW Goes PO Box 160 NL-4460 AD Goes tel. +31 88 3235700 fax. +31 88 3235800 e mail: sds@boltonadhesives.com

· Further information obtainable from: Bison QESH

· 1.4 Emergency telephone number:

National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week) Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
 Classification according to Regulation (EC) No 1272/2008

GHS07

Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation.

· 2.2 Label elements

• Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. • Hazard pictograms



GHS07

· Signal word Warning

· Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

· Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P280	Wear protective gloves / eye protection / face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.

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P310 Immediately call a POISON CENTER/doctor. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· **Description:** Cleansing agent

· Dangerous components:		
CAS: 7681-52-9	sodium hypochlorite, solution 15 % Cl active	≥1-<2.5%
EINECS: 231-668-3 Index number: 017-011-00-1		
Reg.nr.: 01-2119488154-34 Chronic 2, H411, EUH031		
	Specific concentration limit: EUH031: C ≥ 5 %	
CAS: 1310-73-2	sodium hydroxide	≥0.5-<1%
EINECS: 215-185-5	Skin Corr. 1A, H314	
Index number: 011-002-00-6 Specific concentration limits:		
Reg.nr.: 01-2119457892-27	Skin Corr. 1A; H314: C ≥ 5%	
	Skin Corr. 1B; H314: 2 % ≤ C < 5 %	
	Skin Irrit. 2; H315: 0.5 % ≤ C < 2 %	
	Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	
· Regulation (EC) No 648/2004 on detergents / Labelling for contents		

chlorine-based bleaching agents

<5%

• Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- · General information: No special measures required.
- · After inhalation:

Call a doctor immediately.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.

• After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing: Rinse out mouth and then drink plenty of water.

- 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions. • 5.2 Special hazards arising from the substance or mixture
- No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Not required.

- **6.2 Environmental precautions:** Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
- Send for recovery or disposal in suitable receptacles.
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

SECTION 7: Handling and storage

• **7.1 Precautions for safe handling** No special precautions are necessary if used correctly. • **Information about fire - and explosion protection:** No special measures required.

- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- · Storage class: 8 B
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

1310-73-2 sodium hydroxide

OEL (Ireland) Short-term value: 2 mg/m³

• Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Appropriate engineering controls No further data; see item 7.

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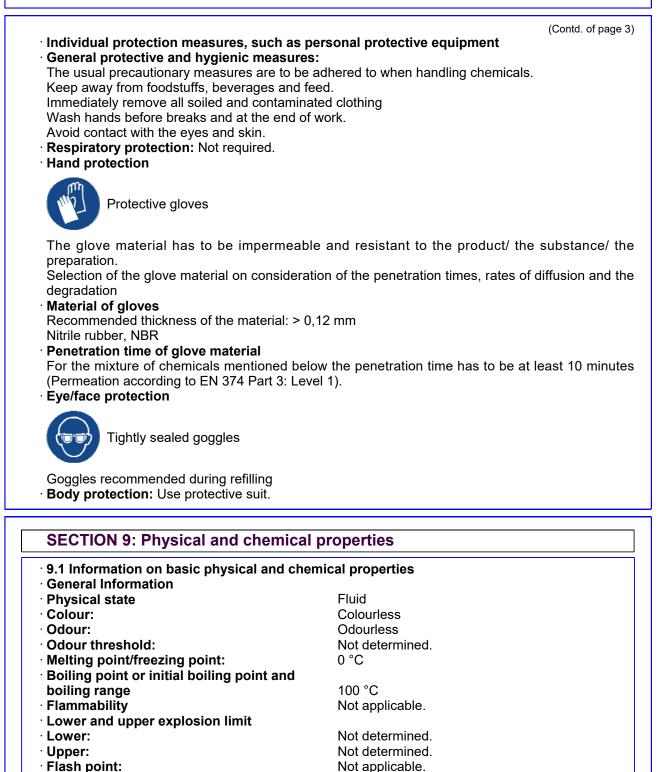


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Not determined.

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· Decomposition temperature:

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pH at 20 °C	11
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic at 20 °C:	0.952 mPas
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log	,
value)	Not determined.
Vapour pressure at 20 °C:	23 hPa
Density and/or relative density	
Density at 20 °C:	1.012-1.013 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.
· · ·	
9.2 Other information	All relevant physical data were determined for the
	mixture. All non-determined data are no
	measurable or not relevant for the
_	characterization of the mixture.
Appearance:	
Form:	Liquid
Important information on protection of healt	ih
and environment, and on safety.	
 Auto-ignition temperature: 	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
· Water:	97.1 %
Solids content:	0.5 %
Molecular weight	18.02 g/mol
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazar	'n
classes	~
Explosives	Void
Flammable gases	Void
Flammable gases	Void Void
Aerosols	Void
Aerosols Oxidising gases	Void Void
Aerosols Oxidising gases Gases under pressure	Void Void Void
Aerosols Oxidising gases Gases under pressure Flammable liquids	Void Void Void Void
Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids	Void Void Void Void Void
Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures	Void Void Void Void Void Void
Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids	Void Void Void Void Void Void
Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids	Void Void Void Void Void Void Void
Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures	Void Void Void Void Void Void
Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit	Void Void Void Void Void Void Void Void
Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water	Void Void Void Void Void Void Void Void
Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids	Void Void Void Void Void Void Void Void
Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids Oxidising solids	Void Void Void Void Void Void Void Void
Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids Oxidising solids Organic peroxides	Void Void Void Void Void Void Void Void
Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids Oxidising solids	Void Void Void Void Void Void Void Void

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Desensitised explosives

Void

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- \cdot Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions Corrosive action on metals.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: Danger of forming toxic pyrolysis products.

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

7681-52-9 sodium hypochlorite, solution 15 % Cl active

Oral LD50 5800 mg/kg (mouse)

1310-73-2 sodium hydroxide

Oral LD50 2000 mg/kg (rat)

- Skin corrosion/irritation
- Causes skin irritation.
- · Serious eye damage/irritation
- Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity
- Not applicable.

Based on available data, the classification criteria are not met.

- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · Additional toxicological information:
- · Acute effects (acute toxicity, irritation and corrosivity) Not applicable.
- Sensitisation Not applicable.
- Repeated dose toxicity Not applicable.
- 11.2 Information on other hazards

• Endocrine disrupting properties

None of the ingredients is listed.

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SECTION 12: Ecological information

· 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- · 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

- · Uncleaned packaging:
- Recommendation:
- Packagings that may not be cleansed are to be disposed of in the same manner as the product.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

· 14.1 UN number or ID number	
· ADR/ADN, IMDG, IATA	UN1719
 14.2 UN proper shipping name 	
· ADR/ADN	1719 CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE, sodium hypochlorite, solution 15 %
	Cl active)
· IMDG, IATA	CAUSTÍC ALKALI LIQUID, N.O.S. (SODIUM
	HYDROXIDE, sodium hypochlorite, solution 15 %
	Cl active)
	CI active) (Contd. on p



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 14.3 Transport hazard class(es) 	
· ADR/ADN	
· Class · Label	8 (C5) Corrosive substances.
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
u de la constante de la consta	
· Class	8 Corrosive substances.
· Label	8
· 14.4 Packing group	
· 14.5 Environmental hazards:	Not applicable.
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> </ul>	Warning: Corrosive substances.
· EMS Number:	F-A,S-B
· Segregation groups	(SGG18) Alkalis
Stowage Category	A
· Segregation Code	SG22 Stow "away from" ammonium salts
	SG35 Stow "separated from" SGG1-acids
• 14.7 Maritime transport in bulk according to IMO instruments	Net applicable
	Not applicable.
<ul> <li>Transport/Additional information:</li> <li>Quantity limitations</li> </ul>	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
· ADR/ADN	<u> </u>
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 r
	Maximum net quantity per outer packaging: 10
Transvert astaraw	ml
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	3 E
· IMDG · Limited quantities (LQ)	5L
	(Contd. on page



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<ul> <li>Excepted quantities (EQ)</li> </ul>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Remarks:	Under certain conditions substances in Class 3 (flammable liquids) can be classified in packinggroup III. See IMDG, Part 2, Chapter 2.3, Paragraph 2.3.2.2
· UN "Model Regulation":	UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE, SODIUM HYPOCHLORITE, SOLUTION 15 % CL ACTIVE), 8, III

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

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

- · REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Relevant phrases

- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.

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(Contd. of page 9) H400 Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. H411 EUH031 Contact with acids liberates toxic gas. Classification according to Regulation (EC) No 1272/2008 Skin corrosion/irritation The classification of the mixture is generally based on the Serious eye damage/irritation calculation method using substance data according to Regulation (EC) No 1272/2008. Department issuing SDS: Bison QESH Contact: Reach coordinator Date of previous version: 21.01.2022 Version number of previous version: 8 Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (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 Harmonised 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Met. Corr.1: Corrosive to metals - Category 1 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Corr. 1B: Skin corrosion/irritation - Category 1B Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 * Data compared to the previous version altered. IE-EN