

Printing date 12.02.2023

Version number 31 (replaces version 30)

Revision: 12.02.2023

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

## 1.1 Product identifier

· Trade name: GRF WDF-05 BO 500ML\*12 L193

• **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 Adhesive

## 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)

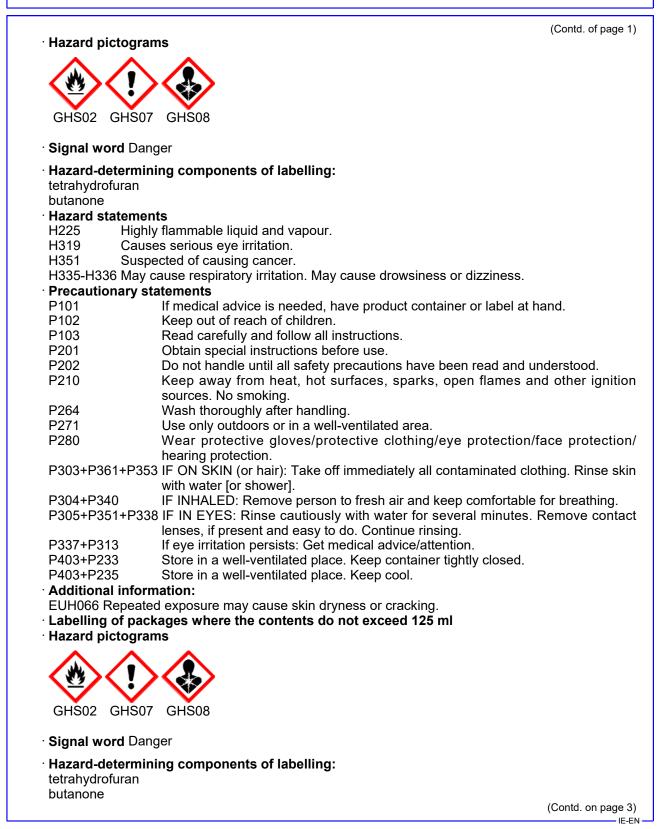
# **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS02 flame Flam. Liq. 2 H225 Highly flammable liquid and vapour. GHS08 health hazard Carc. 2 H351 Suspected of causing cancer. GHS07 Causes serious eye irritation. Eye Irrit. 2 H319 STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness. · 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. (Contd. on page 2) IE-EN



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(Contd. of page 2) · Hazard statements H351 Suspected of causing cancer. H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness. · Precautionary statements If medical advice is needed, have product container or label at hand. P101 P102 Keep out of reach of children. P103 Read carefully and follow all instructions. Obtain special instructions before use. P201 P202 Do not handle until all safety precautions have been read and understood. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P403+P233 Store in a well-ventilated place. Keep container tightly closed. · 2.3 Other hazards Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. · Determination of endocrine-disrupting properties 78-93-3 butanone List II **SECTION 3: Composition/information on ingredients** · 3.2 Mixtures · Description: Adhesive • Dangerous components:

	Dangerous components.		
	CAS: 109-99-9	tetrahydrofuran	≥50-<80%
	EINECS: 203-726-8		
	Index number: 603-025-00-0		
	Reg.nr.: 01-2119444314-46	Specific concentration limits:	
		Eye Irrit. 2; H319: C ≥ 25%	
		STOT SE 3; H335: C ≥ 25 %	
		Self-react. A; H240: C ≥ 80 %	
		-	05 500/
	CAS: 78-93-3	butanone	25-50%
	EINECS: 201-159-0	Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3,	
	Index number: 606-002-00-3	H336. EUH066	
	Reg.nr.: 01-2119457290-43	,	
L	<u> </u>		
	• Additional information: For	the wording of the listed hazard phrases refer to section 1	6.

## **SECTION 4: First aid measures**

#### • 4.1 Description of first aid measures

• General information: Immediately remove any clothing soiled by the product.

#### · After inhalation:

- Supply fresh air; consult doctor in case of complaints.
- No special measures required.
- · After skin contact: Immediately rinse with water.

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#### · After eye contact:

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- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. After swallowing: If symptoms persist consult doctor.
- **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.

## **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

· Suitable extinguishing agents:

Water haze

Alcohol resistant foam

Fire-extinguishing powder

- Carbon dioxide
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 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.
- · Additional information
- Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

# **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: 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). 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

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air). Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

Prevent formation of aerosols.

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• Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

Keep respiratory protective device available.

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

· Storage:

· Requirements to be met by storerooms and receptacles: Store in a cool location.

· Information about storage in one common storage facility: Not required.

- · Further information about storage conditions:
- Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- Storage class: 3
- 7.3 Specific end use(s) No further relevant information available.

# SECTION 8: Exposure controls/personal protection

## · 8.1 Control parameters

	parameters
· Ingredients	with limit values that require monitoring at the workplace:
109-99-9 te	trahydrofuran
OEL (Ireland	d) Short-term value: 300 mg/m³, 100 ppm Long-term value: 150 mg/m³, 50 ppm Sk, IOELV
IOELV (EU)	Short-term value: 300 mg/m³, 100 ppm Long-term value: 150 mg/m³, 50 ppm Skin
78-93-3 but	anone
OEL (Ireland	d) Short-term value: 900 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk, IOELV
IOELV (EU)	Short-term value: 900 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm
· DNELs	
78-93-3 but	anone
Oral C	Consumer, oral, longterm exposition 31 mg/kg bw/day
Dermal C	Consumer, dermal, longterm exposition 412 mg/kg bw/day
Inhalative C	Consumer, inhalation, longterm exposition 106 mg/m <sup>3</sup>
PNECs	
78-93-3 but	anone
Fresh water	55.8 mg/l
Marine wate	er 55.8 mg/l
Soil	22.5 mg/kg
· Additional	information: The lists valid during the making were used as basis.
0 2 Evnoou	

#### · 8.2 Exposure controls

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

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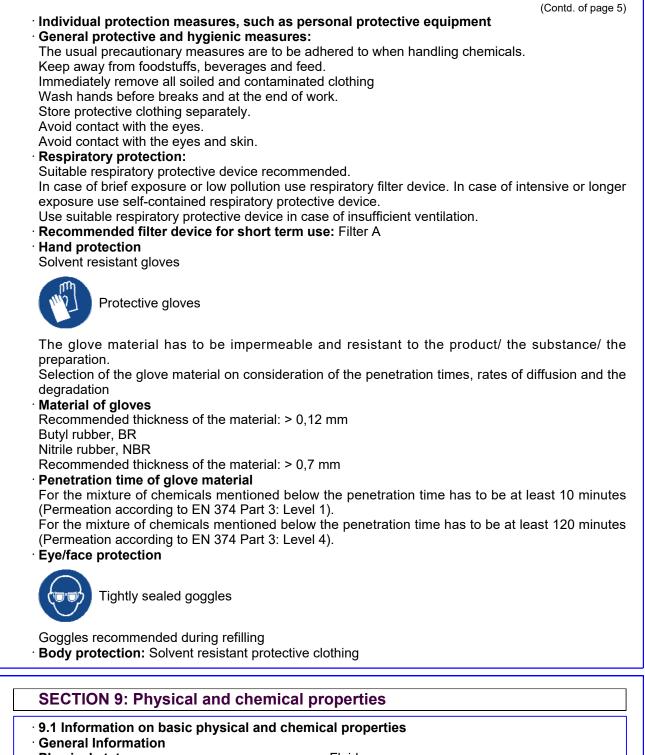


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· Physical state

Fluid

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	(Contd. of page
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and	••••••••
boiling range	65.5 °C
Flammability	Highly flammable.
Lower and upper explosion limit	riigiliy hammable.
Lower:	1.5 Vol %
	12 Vol %
Upper:	
Flash point:	-21 °C
Ignition temperature:	230 °C
Decomposition temperature:	Not determined.
рН	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic at 20 °C:	675 mPas
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log	
value)	Not determined.
Vapour pressure at 20 °C:	200 hPa
Density and/or relative density	200 m d
Density at 20 °C:	0.965-0.966 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:	
ADDedialice.	
	Fluid
Form:	Fluid <b>h</b>
Form: Important information on protection of healt	
Form: Important information on protection of healt and environment, and on safety.	h
Form: Important information on protection of healt and environment, and on safety. Auto-ignition temperature:	<b>h</b> Product is not selfigniting.
Form: Important information on protection of healt and environment, and on safety. Auto-ignition temperature:	<b>h</b> Product is not selfigniting. Product is not explosive. However, formation o
Form: Important information on protection of healt and environment, and on safety. Auto-ignition temperature: Explosive properties:	<b>h</b> Product is not selfigniting.
Form: Important information on protection of healt and environment, and on safety. Auto-ignition temperature: Explosive properties: Solvent content:	h Product is not selfigniting. Product is not explosive. However, formation o explosive air/vapour mixtures are possible.
Form: Important information on protection of healt and environment, and on safety. Auto-ignition temperature: Explosive properties: Solvent content: Organic solvents:	<ul> <li>Product is not selfigniting.</li> <li>Product is not explosive. However, formation o explosive air/vapour mixtures are possible.</li> <li>83.1 %</li> </ul>
Form: Important information on protection of healt and environment, and on safety. Auto-ignition temperature: Explosive properties: Solvent content: Organic solvents: Water:	<ul> <li>h</li> <li>Product is not selfigniting.</li> <li>Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</li> <li>83.1 %</li> <li>0.0 %</li> </ul>
Form: Important information on protection of healt and environment, and on safety. Auto-ignition temperature: Explosive properties: Solvent content: Organic solvents: Water: Solids content:	<ul> <li>Product is not selfigniting.</li> <li>Product is not explosive. However, formation o explosive air/vapour mixtures are possible.</li> <li>83.1 %</li> </ul>
Form: Important information on protection of healt and environment, and on safety. Auto-ignition temperature: Explosive properties: Solvent content: Organic solvents: Water: Solids content: Change in condition	<ul> <li>h</li> <li>Product is not selfigniting.</li> <li>Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</li> <li>83.1 %</li> <li>0.0 %</li> <li>16.9 %</li> </ul>
Form: Important information on protection of healt and environment, and on safety. Auto-ignition temperature: Explosive properties: Solvent content: Organic solvents: Water: Solids content: Change in condition	<ul> <li>h</li> <li>Product is not selfigniting.</li> <li>Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</li> <li>83.1 %</li> <li>0.0 %</li> </ul>
Form: Important information on protection of healt and environment, and on safety. Auto-ignition temperature: Explosive properties: Solvent content: Organic solvents: Water: Solids content: Change in condition Evaporation rate	<ul> <li>h</li> <li>Product is not selfigniting.</li> <li>Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</li> <li>83.1 %</li> <li>0.0 %</li> <li>16.9 %</li> <li>Not determined.</li> </ul>
Form: Important information on protection of healt and environment, and on safety. Auto-ignition temperature: Explosive properties: Solvent content: Organic solvents: Water: Solids content: Change in condition Evaporation rate Information with regard to physical hazar	<ul> <li>h</li> <li>Product is not selfigniting.</li> <li>Product is not explosive. However, formation c explosive air/vapour mixtures are possible.</li> <li>83.1 %</li> <li>0.0 %</li> <li>16.9 %</li> <li>Not determined.</li> </ul>
Form: Important information on protection of healt and environment, and on safety. Auto-ignition temperature: Explosive properties: Solvent content: Organic solvents: Water: Solids content: Change in condition Evaporation rate Information with regard to physical hazar classes	<ul> <li>h</li> <li>Product is not selfigniting.</li> <li>Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</li> <li>83.1 %</li> <li>0.0 %</li> <li>16.9 %</li> <li>Not determined.</li> <li>d</li> </ul>
Form: Important information on protection of healt and environment, and on safety. Auto-ignition temperature: Explosive properties: Solvent content: Organic solvents: Water: Solids content: Change in condition Evaporation rate Information with regard to physical hazar classes Explosives	<ul> <li>h</li> <li>Product is not selfigniting.</li> <li>Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</li> <li>83.1 %</li> <li>0.0 %</li> <li>16.9 %</li> <li>Not determined.</li> <li>d</li> <li>Void</li> </ul>
Form: Important information on protection of healt and environment, and on safety. Auto-ignition temperature: Explosive properties: Solvent content: Organic solvents: Water: Solids content: Change in condition Evaporation rate Information with regard to physical hazar classes Explosives Flammable gases	<ul> <li>h</li> <li>Product is not selfigniting.</li> <li>Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</li> <li>83.1 %</li> <li>0.0 %</li> <li>16.9 %</li> <li>Not determined.</li> <li>d</li> <li>Void</li> <li>Void</li> </ul>
Form: Important information on protection of healt and environment, and on safety. Auto-ignition temperature: Explosive properties: Solvent content: Organic solvents: Water: Solids content: Change in condition Evaporation rate Information with regard to physical hazar	<ul> <li>h</li> <li>Product is not selfigniting.</li> <li>Product is not explosive. However, formation o explosive air/vapour mixtures are possible.</li> <li>83.1 %</li> <li>0.0 %</li> <li>16.9 %</li> <li>Not determined.</li> <li>d</li> <li>Void</li> </ul>



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· Gases under pressure	Void
Flammable liquids	Highly flammable liquid and vapour.
Flammable solids	Void
Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
Pyrophoric solids	Void
• Self-heating substances and mixtures	Void
<ul> <li>Substances and mixtures, which emit</li> </ul>	
flammable gases in contact with water	Void
· Oxidising liquids	Void
Oxidising solids	Void
· Organic peroxides	Void
Corrosive to metals	Void
<ul> <li>Desensitised explosives</li> </ul>	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.

• 10.3 Possibility of hazardous reactions No dangerous reactions known.

· 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:

109-99-9 tetrahydrofuran

Oral LD50 2500 mg/kg (rat)

#### 78-93-3 butanone

Oral LD50 3300 mg/kg (rat)

Dermal LD50 5000 mg/kg (rabbit)

· Skin corrosion/irritation Based on available data, the classification criteria are not met.

- 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 Suspected of causing cancer.

• **Reproductive toxicity** Based on available data, the classification criteria are not met.

• STOT-single exposure May cause respiratory irritation. May cause drowsiness or dizziness.

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List II

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

- $\cdot$  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

78-93-3 butanone

## **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
- For information on endocrine disrupting properties see section 11.
- · 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.

## **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.

# **SECTION 14: Transport information**

14.1 UN number or ID number
 ADR/ADN, IMDG, IATA

UN1133

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<ul> <li>14.2 UN proper shipping name</li> <li>ADR/ADN</li> <li>IMDG, IATA</li> </ul>	1133 ADHESIVES ADHESIVES
<sup>·</sup> 14.3 Transport hazard class(es)	
· ADR/ADN	
· Class · Label	3 (F1) Flammable liquids. 3
· IMDG, IATA	
· Class · Label	3 Flammable liquids. 3
· 14.4 Packing group · ADR/ADN, IMDG, IATA	111
· 14.5 Environmental hazards: · Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
<ul> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> </ul>	- F-E,S-D
Stowage Category	A
<ul> <li>14.7 Maritime transport in bulk according to IMO instruments</li> </ul>	Not applicable.
<ul> <li>Transport/Additional information:</li> <li>Quantity limitations</li> </ul>	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· ADR/ADN	
· Limited quantities (LQ)	5L Code: E1
· Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 m Maximum net quantity per outer packaging: 100 ml
· Transport category · Tunnel restriction code	3 E
·IMDG	
Limited quantities (LQ)	5L Cada: E1
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 m Maximum net quantity per outer packaging: 1000
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. 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 1133 ADHESIVES, 3, 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.
- Seveso category P5c FLAMMABLE LIQUIDS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 5000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50000 t
- 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

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

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

78-93-3 butanone

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

H225 Highly flammable liquid and vapour.

- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.

EUH019 May form explosive peroxides.

EUH066 Repeated exposure may cause skin dryness or cracking.

## Classification according to Regulation (EC) No 1272/2008

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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3

3



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Flammable liquids	Bridging principles
Serious eye damage/irritation	The classification of the mixture is generally based
Carcinogenicity	on the calculation method using substance data
Specific target organ toxicity (single exp	posure) according to Regulation (EC) No 1272/2008.
Department issuing SDS: Bison QES	H
Contact: Reach coordinator	
Date of previous version: 19.06.2021	
· Version number of previous version:	
· Abbreviations and acronyms:	. 50
	na marahandiana dangarayana nar rayta (Euronaan Agraamant Canaarniy
the International Carriage of Dangerous Goods b	es marchandises dangereuses par route (European Agreement Concernir
IMDG: International Maritime Code for Dangerou	
	s Goods
IMDG: International Maritime Code for Dangerou- IATA: International Air Transport Association GHS: Globally Harmonised System of Classificat EINECS: European Inventory of Existing Comme	s Goods tion and Labelling of Chemicals ercial Chemical Substances
IMDG: International Maritime Code for Dangerou- IATA: International Air Transport Association GHS: Globally Harmonised System of Classificat EINECS: European Inventory of Existing Comme ELINCS: European List of Notified Chemical Sub	is Goods tion and Labelling of Chemicals ercial Chemical Substances ostances
IMDG: International Maritime Code for Dangerou- IATA: International Air Transport Association GHS: Globally Harmonised System of Classificat EINECS: European Inventory of Existing Comme ELINCS: European List of Notified Chemical Sub CAS: Chemical Abstracts Service (division of the	is Goods tion and Labelling of Chemicals ercial Chemical Substances ostances
IMDG: International Maritime Code for Dangerou- IATA: International Air Transport Association GHS: Globally Harmonised System of Classificat EINECS: European Inventory of Existing Comme ELINCS: European List of Notified Chemical Sub CAS: Chemical Abstracts Service (division of the DNEL: Derived No-Effect Level (REACH)	is Goods tion and Labelling of Chemicals ercial Chemical Substances ostances e American Chemical Society)
IMDG: International Maritime Code for Dangerou- IATA: International Air Transport Association GHS: Globally Harmonised System of Classificat EINECS: European Inventory of Existing Comme ELINCS: European List of Notified Chemical Sub CAS: Chemical Abstracts Service (division of the DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REAC	is Goods tion and Labelling of Chemicals ercial Chemical Substances ostances e American Chemical Society)
IMDG: International Maritime Code for Dangerou- IATA: International Air Transport Association GHS: Globally Harmonised System of Classificat EINECS: European Inventory of Existing Comme ELINCS: European List of Notified Chemical Sub CAS: Chemical Abstracts Service (division of the DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REAC LC50: Lethal concentration, 50 percent	is Goods tion and Labelling of Chemicals ercial Chemical Substances ostances e American Chemical Society)
IMDG: International Maritime Code for Dangerou- IATA: International Air Transport Association GHS: Globally Harmonised System of Classificat EINECS: European Inventory of Existing Comme ELINCS: European List of Notified Chemical Sub CAS: Chemical Abstracts Service (division of the DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REAC LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent	is Goods tion and Labelling of Chemicals ercial Chemical Substances ostances e American Chemical Society)
IMDG: International Maritime Code for Dangerou- IATA: International Air Transport Association GHS: Globally Harmonised System of Classificat EINECS: European Inventory of Existing Comme ELINCS: European List of Notified Chemical Sub CAS: Chemical Abstracts Service (division of the DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REAC LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic	is Goods tion and Labelling of Chemicals ercial Chemical Substances ostances e American Chemical Society)
IMDG: International Maritime Code for Dangerou- IATA: International Air Transport Association GHS: Globally Harmonised System of Classificat EINECS: European Inventory of Existing Comme ELINCS: European List of Notified Chemical Sub CAS: Chemical Abstracts Service (division of the DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REAC LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent	is Goods tion and Labelling of Chemicals ercial Chemical Substances ostances e American Chemical Society)
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