

pr 25

ONE4ALL S1101 SYSTEM



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PRODUCTINSIGHTS

pr salls 25

SELF-APPLYING BICOMPONENT SYRINGE

Volume: 25 ml (0.9 fl oz) **Dimensions:** 24x4,5x6 cm

Weight: 70 g

Performance: 0.1x1 m System: One4All

SKU: DS25

CONTENT

1 x Self-applying syringe

Net volume: 25ml
2 x Mixing nozzles

Double HELIX. Self-mixing

1 x Nozzles' subjection Clip

Compact presentation

1 x Label

PE water resistant



- 1. Remove cap
- 2. Place Nozzle

READY!



The nozzle has the minimum size that guarantees a 100% homogeneous mix

and also minimizes product losses







CLEAN



EASY



FAST



to apply the product





ONE-WAY cap
The cap only has one
position in order to avoid
components'
contamination



CHEMISTRYINSIGHTS

ONE 4ALL

DESCRIPTION

Two-component epoxy-based adhesive system. Room temperature curing 1:1 mixing ratio system performing flexible, UV resistant bondlines with high mechanical strength. The adhesive system is fast curing with satisfactory use in any environmental condition, even applied underwater.

BENEFITS

High Viscosity

Self Leveling

Solvent-free

Multi-material bonding

Aging resistance

Fast Curing (20 min)

Underwater curing

Flexible

APPLICATIONS

() DIY

Composites

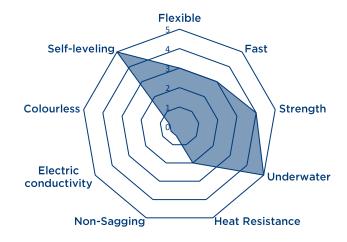
OEM

() Industrial processes

Structural repairs

Bondlines

PROPERTIES





FLEXIBLE







SYSTEMINSIGHTS

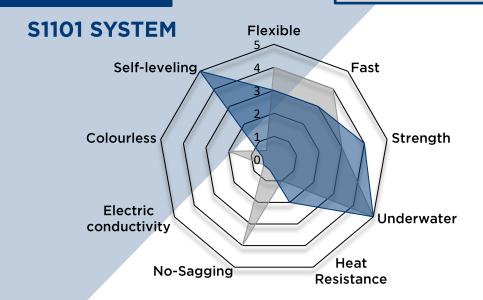
		_		
	ONE4ALL	ALL PURPOSE MARINE ADHESIVE	C·FLEX	PBOND
		CURING PER	FORMANCE	
Working Life (min)	8	8	6	20
Tack Free Time (min)	22	12	15	4
Full Cured Time (hours)	24	24	24	24
		CURED M	ATERIAL	
Tensile Strength, Mpa @ 20 min	8.38	3.53	<3	27.8
Tensile Elongation (%)	23	55	>200	4.5
Hardness Shore A (ASTM 2204)	85	57	N/A	98
Glass Transition Temperature (Tg), °C	8 to 18	10 to 12	N/A	71



SYSTEMCHART

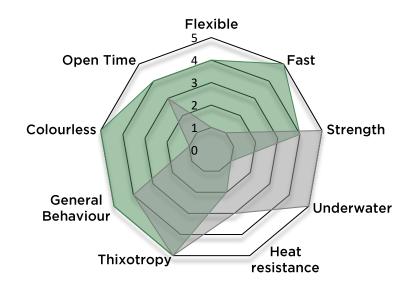
ONE4ALL

ALL PURPOSEMARINE ADHESIVE



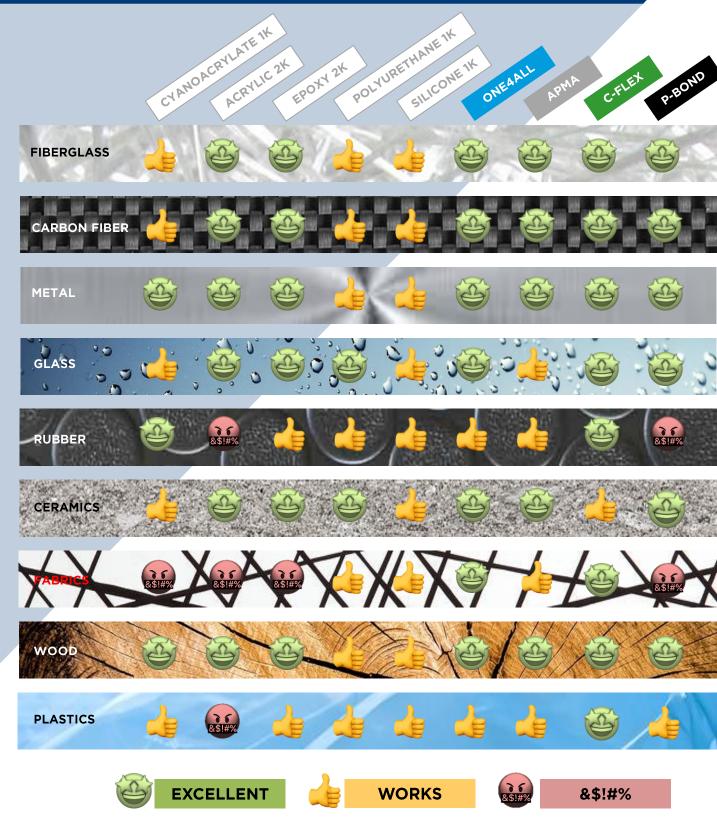








ADHESIVESELECTOR



ALL THE INFO SHOWN REFERS TO STANDARD CHEMISTRY PRODUCTS

AVAILABLE ON THE MARKET



TECHNICALDATA

ONE 4ALL S1101 SYSTEM

PRODUCT DESCRIPTION

GLOO S1101 is a two-component fast and flexible epoxy based adhesive system capable to cure in the most extreme conditions, even underwater. Once mixed reaches high strength flexible bond to almost materials performing high strength.

TYPICAL APPLICATIONS

Ideal for bonding a full range of materials: metals, wood, composites, sailcloth, wetsuit, ceramic, concrete and plastics. Can be charged with fillers and diluted with acetone.

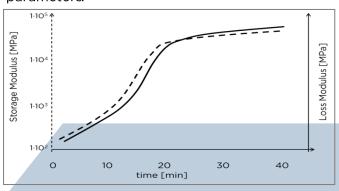
PROPERTIES OF UNCURED MATERIAL

Resin	Ту	Typical		
	Value	Range		
Chemical Type	Bisphenol-A epo	oxy		
Appearance	Off-white viscous	liquid		
Odor	Light			
Density (g/ml) @ 25°C	1,21			
Viscosity (cP) @ 25°C	16000	12000-18000		
Flash Point (TCC) (°C)	12			
Hardener	Ту	pical		
	Value	Range		
Chemical Type	Modified Polyan	nine		
Appearance	Slight pale viscous	s liquid		
Odor	Strongly Sulphi			
Density (g/ml) @ 25°C				
Viscosity (cP) @ 25°C	12000	10000-14000		
Flash Point (TCC) (°C)	>55			
Mixture	Ту	pical		
	Value	Range		
Appearance	Off-white viscous	Liquid		
Density (g/ml) @ 25°C	1.2			
Mix Ratio (R:H) by Vol				
by We				

TYPICAL CURING PERFORMANCE

Cure Speed

The graph below shows the Storage Modulus (MPa) and Loss Modulus (MPa) over time, on aluminium shear strength with an average bondline gap of 0.6 to 0.8mm on 0 to 50Hz steady state flow procedure on rheological parameters.

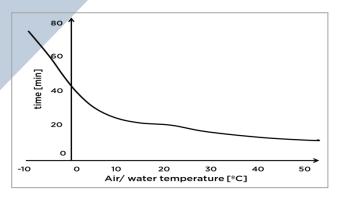


Curing Properties

(Air/water @ 25°C unless noted) Typical Value Working Life , minutes 8
Tack Free Time, minutes 22
Full Cured Time, hours 24

Last Review: JUN 2019

The graph below shows the curing time over. The information displayed ensure optimal uses from - $10 \text{ to } 50^{\circ}\text{C}$



TYPICAL PROPERTIES OF CURED MATERIAL

(Air/water @ 25°C unless noted) Typical Value Tensile Strength, MPa (psi) @ 20min 8.38 Tensile Elongation, (%) 23 Hardness Shore A (ASTM 2240) 85 Flexural Strength (ISO 178), MPa (psi) 4.5 Glass Transition Temperature (Tg), °C 8 to 18

PERFORMANCE OF CURED MATERIAL

Shear Strength vs Substrate

(Substrates cured for 7 days @ 23±2°C)

Substrate Typical Value

Single Overlap ISO 11003-2:2001	N/mm²	psi
Stainless Steel AISI-304	8.2	1189.3
Polycarbonate	10.4	1508.4
Polyamide	1.8	261.1
PVC	1.9	275.6
Pine wood	4.9	710.7
Iroko wood	5.5	797.7
Oak wood	5.3	768.7
Teka wood	6.9	1000.8
FGR PET matrix	18.2	2639.7
CFR epoxy matrix	20.1	2915.3
Single Overlap ISO 527-3:1996	N/mm²	psi

Nylon liner	>0.5	>72.5
Polyester liner	>0.2	>29.1
Dyneema® fabric	>1.3	>188.6
PVC liner	0.6	87.1
PVC liner isopropanol etched	1.3	188.6
dreaile com		resile



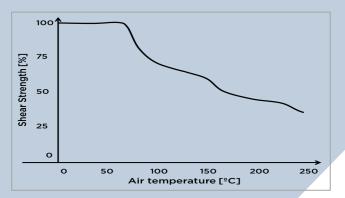
TECHNICALDATA

ONE 4ALL S1101 SYSTEM

TYPICAL ENVIRONMENTAL RESISTANCE

Hot Strength

Test Procedure: Substrate: Bondline Gap: Cure procedure: ISO 11003-2:2001 Stainless Steel AISI 304 0.25 to 0.3mm 24h @ 25°C



Saline Fog Atmosphere Strength

Test Procedure: ISO 9227 Substrate: Mylar® with Twaron® 1650 Bondline Gap: 0.25 to 0.3mm Cure procedure: 24h @ 25°C

Typical Value

Single Overlap ISO 527-3:1996 N/mm² psi Mylar® with Twaron® 1650 >0.18 >26.1

UV Exposure Atmosphere Strength

Test Procedure: ISO 4892-3
Substrate: Mylar® with Twaron® 1650
Bondline Gap: 0.25 to 0.3mm
Cure procedure: 24h @ 25°C

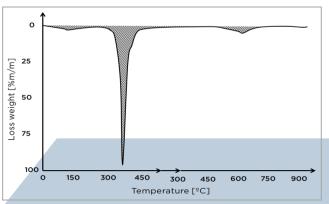
Typical Value

Single Overlap ISO 527-3:1996 N/mm² psi Mylar® with Twaron® 1650 >0.19 >27.5

* Values with ">"sign determines substrate failure

Thermal degradation

Test Procedure: TGA (N_2 and AIR) MidPoint degradation: 385.44 $^\circ$ C



GENERAL INFORMATION

For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).

Regulatory Notice

Information given in the Material Safety Data Sheet is drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015.

See the Material Safety Data Sheet for details.

Directions for use

1. For high strength structural bonds, removal of surface contaminates such as paint, oxide films, oils, dust, mold release agents and all other surface contaminates.

2.Use gloves to minimize skin contact. DO NOT use solvents for cleaning hands.

3.Syringe container: Syringe ensures correct mixed ratio of the two components. Remove the syringe cap and expel a small amount of adhesive to be sure both sides are flowing evenly and freely. If automatic mixing of resin and hardener is desired, attach the mixing nozzle to the end of the cartridge and begin dispensing the adhesive. Coaxial cartridge: To use simply insert the cartridge into the application gun and start the plunger into the cylinder using light pressure on the trigger. Use conventional high viscosity caulking gun. Remove the syringe cap and expel a small amount of adhesive to be sure both sides are flowing evenly and freely. If automatic mixing of resin and hardener is desired, attach the mixing nozzle to the end of the cartridge and dispensing the adhesive. begin container: Mix thoroughly by weight or volume in the proportions specified in Properties of Uncured Material section. Mix vigorously approximately 15 seconds after uniform color is obtained.

4.For maximum bond strength apply adhesive evenly to both surfaces to be joined.

5.Application to the substrates should be made within 5 to 8 minutes. Higher temperatures will reduce this working time.

6.Keep parts from moving during cure. Contact pressure is necessary. Maximum shear strength is obtained with a 0.2 to 0.5mm gap bond line.

7.Excess uncured adhesive can be cleaned up with ketone type solvents.

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TECHNICALDATA

ONE 4ALL S1101 SYSTEM

Storage

Product shall be ideally stored in a cool, dry location in unopened containers at a temperature between 8° C to 28° C (46° F to 82° F) unless otherwise labeled. Optimal storage is at the lower half of this temperature range. To prevent contamination of unused product, do not return any material to its original container. Shelf life was guaranteed for 36 months in described conditions.

Data Ranges

The data contained herein may be reported as a typical value and/or range. Values are based on actual test data and are verified on a periodic basis.

Note

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing,

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AUTHORIZED DEALER DETAILS

(in accordance with Regulation (EU) 2015/830)

Dr. Sails (Component A)

Version: 15

Revision date: 28/11/2017



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SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING.

1.1 Product identifier.

Product Name: Dr. Sails (component A)

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

Adhesive

Uses advised against:

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Company: **Sailing Technologies, S.L.**Address: C/ CALATRAVA Nº 68, BAJOS 3

City: 08017 BARCELONA
Province: BARCELONA
Telephone: +34 932 693 348
E-mail: info@glooers.com
Web: www.glooers.com

1.4 Emergency telephone number: +34 932 693 348 (Only available during office hours)

SECTION 2: HAZARDS IDENTIFICATION.

IRRITANT PREPARATION. Splatters in the eyes can cause irritation.

2.1 Classification of the mixture.

In accordance with Regulation (EU) No 1272/2008:

Aquatic Chronic 2: Toxic to aquatic life with long lasting effects.

Eye Irrit. 2 : Causes serious eye irritation. Skin Irrit. 2 : Causes skin irritation.

Skin Sens. 1: May cause an allergic skin reaction.

2.2 Label elements.

Labelling in accordance with Regulation (EU) No 1272/2008:

Pictograms:





Signal Word:

Warning

H statements:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

P statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children. P103 Read label before use.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P321 Specific treatment (see ... on this label).

P501 Dispose of contents/container in chemical containers

(in accordance with Regulation (EU) 2015/830)

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EUH statements:

EUH205 Contains epoxy constituents. May produce an allergic reaction.

Contains:

Polipropilenglicol alquilfenil-éter

epoxy resin (number average molecular weight ≤ 700),reaction product: bisphenol-A-(epichlorhydrin)

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

2.3 Other hazards.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

IRRITANT PREPARATION. Splatters in the eyes can cause irritation.

3.1 Substances.

Not Applicable.

3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

			(*)Classification No 127	- Regulation (EC) 2/2008
Identifiers	Name	Concentrate	Classification	specific concentration limit
CAS No: 9003-36-5 EC No: 500-006-8 Registration No: 01- 2119454392-40-XXXX	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	25 - 50 %	Aquatic Chronic 2, H411 - Eye Irrit. 2, H319 - Skin Irrit. 2, H315 - Skin Sens. 1, H317	-
Index No: 603-074- 00-8 CAS No: 25068-38-6 EC No: 500-033-5 Registration No: 01- 2119456619-26-XXXX	epoxy resin (number average molecular weight ≤ 700),reaction product: bisphenol-A-(epichlorhydrin)	5 - 25 %	Aquatic Chronic 2, H411 - Eye Irrit. 2, H319 - Skin Irrit. 2, H315 - Skin Sens. 1, H317	Eye Irrit. 2, H319: C ≥ 5 % Skin Irrit. 2, H315: C ≥ 5 %
Index No: 604-004- 00-9 CAS No: 1319-77-3 EC No: 215-293-2	Polipropilenglicol alquilfenil-éter	1 - 10 %	Skin Sens. 1, H317	-
Index No: 606-001- 00-8 CAS No: 67-64-1 EC No: 200-662-2 Registration No: 01- 2119471330-49-xxxx	Acetone	1 - 10 %	Eye Irrit. 2, H319 - Flam. Liq. 2, H225 - STOT SE 3, H336	-
N. CAS: 63843-89-0 N. CE: 264-513-3	1] [(3,5-bis (1,1-dimethylethyl) -4-hydroxyphenyl] methyl] butylmalonate bis (1,2,2,6,6- pentamethyl-4-piperidyl)	0.04 - 1 %	Acute Tox. 4, H302 - Aquatic Chronic 3, H412 - STOT RE 1, H372	-

^(*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

SECTION 4: FIRST AID MEASURES.

IRRITANT PREPARATION. Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

4.1 Description of first aid measures.

(in accordance with Regulation (EU) 2015/830)

Dr. Sails (Component A)

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In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

Eye contact.

Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance. Don't let the person to rub the affected eye.

Skin contact

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

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

Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate.

It may cause an allergic reaction, dermatitis, redness or inflammation of the skin.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Cover the affected area with a dry sterile bandage. Protect the affected area from pressure or friction.

SECTION 5: FIREFIGHTING MEASURES.

The product does not present any particular risk in case of fire.

5.1 Extinguishing media.

Suitable extinguishing media:

Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2 Special hazards arising from the mixture.

Special risks.

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways. Product residues and extinguishing media may contaminate the aquatic environment.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.

Product dangerous for the environment, in case of large spills or if the product contaminates lakes, rivers, or sewers, inform the responsible authorities according to local legislation. Prevent the contamination of drains, surface or subterranean waters, and the ground.

(in accordance with Regulation (EU) 2015/830)

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6.3 Methods and material for containment and cleaning up.

Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc.). Pour the product and the absorbent in an appropriate container. The contaminated area should be immediately cleaned with an appropriate de-contaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

For personal protection, see section 8. Never use pressure to empty the containers. They are not pressure-resistant containers. In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 35° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18/EU (SEVESO III):

		Qualifying quant the applic	
Code	Description	Lower-tier requirements	Upper-tier requirements
E2	ENVIRONMENTAL HAZARDS - Hazardous to the Aquatic Environment in Category Chronic 2	200	500

7.3 Specific end use(s).

Multiple sectors and applications

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

The product does NOT contain substances with Professional Exposure Environmental Limit Values. The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Туре	Value
epoxy resin (number average molecular weight ≤	DNEL	Inhalation, Long-term, Systemic effects	12,25
700),reaction product: bisphenol-A-(epichlorhydrin)	(Workers)		(mg/m ³)
CAS No: 25068-38-6	,		, ,
EC No: 500-033-5			

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100 %
Uses:	Adhesive
Breathing protect	ion:
PPE:	Filter mask for protection against gases and particles.

(in accordance with Regulation (EU) 2015/830)

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«CE» marking, category III. The mask must have a wide field of vision and an Characteristics:

anatomically designed form in order to be sealed and watertight.

CEN standards: FN 136, FN 140, FN 405

Should not be stored in places exposed to high temperatures and damp environments before use. Special Maintenance:

attention should be paid to the state of the inhalation and exhalation valves in the face adaptor.

Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols:

P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.

Filter Type needed:

Hand protection:

Observations:

Work gloves.

Characteristics: «CE» marking, category I.

CEN standards: EN 374-1, En 374-2, EN 374-3, EN 420

Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Maintenance:

Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or

(mm):

Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Observations:

Always use with clean, dry hands.

Breakthrough time Material thickness Material: PVC (polyvinyl chloride) > 480 0,35 (min.):

Eye protection:

Face shield.

«CE» marking, category II. Face and eye protector against splashing liquid. Characteristics:

EN 165, EN 166, EN 167, EN 168 CEN standards:

Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should

Maintenance: be disinfected periodically following the manufacturer's instructions. Make sure that mobile parts move

Face shields should offer a field of vision with a dimension in the central line of, at least, 150 mm Observations:

vertically once attached to the frame.

Skin protection:

PPE: Protective clothing.

«CE» marking, category II. Protective clothing should not be too tight or loose in Characteristics:

order not to obstruct the user's movements.

CFN standards: FN 340

In order to guarantee uniform protection, follow the washing and maintenance instructions provided by Maintenance:

the manufacturer.

The protective clothing should offer a level of comfort in line with the level of protection provided in Observations:

terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level

of activity and the expected time of use.

PPE: Work footwear.

Characteristics: «CE» marking, category II. EN ISO 13287, EN 20347 CEN standards:

This product adapts to the first user's foot shape. That is why, as well as for hygienic reasons, it should Maintenance:

not be used by other people.

Work footwear for professional use includes protection elements aimed at protecting users against any Observations:

injury resulting from an accident

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Appearance: White viscous liquid

Colour: Blanco Odour:Light

Odour threshold: N.A./N.A.

pH:6

Melting point: N.A./N.A. Boiling Point: N.A./N.A. Flash point: 14 °C

Evaporation rate: N.A./N.A.

Inflammability (solid, gas): Flammable Lower Explosive Limit: N.A./N.A.

(in accordance with Regulation (EU) 2015/830)

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Upper Explosive Limit: N.A./N.A. Vapour pressure: < 0.0002 kPa Vapour density:N.A./N.A. Relative density:1.17 g/cm³ Solubility:N.A./N.A. Liposolubility: N.A./N.A.

Hydrosolubility: Practically insoluble

Partition coefficient (n-octanol/water): N.A./N.A.

Auto-ignition temperature: N.A./N.A. Decomposition temperature: > 200 °C°C

Viscosity: 25000-45000 Explosive properties: N.A./N.A. Oxidizing properties: N.A./N.A.

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

9.2 Other information.

Pour point: N.A./N.A. Blink: N.A./N.A.

Kinematic viscosity: N.A./N.A.

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

The product does not present hazards by their reactivity.

10.2 Chemical stability.

Unstable in contact with:

- Acids.
- Bases.
- Oxidizing agents.

10.3 Possibility of hazardous reactions.

In certain conditions this may cause a polymerization reaction.

10.4 Conditions to avoid.

Avoid the following conditions:

- Heating.
- High temperature.
- Contact with incompatible materials.

10.5 Incompatible materials.

Avoid the following materials:

- Acids.
- Bases.
- Oxidizing agents.

10.6 Hazardous decomposition products.

Depending on conditions of use, can be generated the following products:

- COx (carbon oxides).
- Organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION.

Based on the properties of the epoxy components, and keeping in mind the toxicological data on similar preparations, this preparation can sensitise and irritate the skin, eyes, and respiratory tract.

The low molecular weight epoxy components are irritants to the eyes, mucous membranes, and skin. Repeated contact with the skin can lead to its irritation or sensitisation, possibly with accentuated autosensitisation to other epoxies.

IRRITANT PREPARATION. Splatters in the eyes can cause irritation.

(in accordance with Regulation (EU) 2015/830)

Dr. Sails (Component A)

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IRRITANT PREPARATION. Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

11.1 Information on toxicological effects.

There are no tested data available on the product.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

Splatters in the eyes can cause irritation and reversible damage.

a) acute toxicity;

Not conclusive data for classification.

b) skin corrosion/irritation;

Product classified:

Skin irritant, Category 2: Causes skin irritation.

c) serious eye damage/irritation;

Product classified:

Eye irritation, Category 2: Causes serious eye irritation.

d) respiratory or skin sensitisation;

Product classified:

Skin sensitiser, Category 1: May cause an allergic skin reaction.

e) germ cell mutagenicity;

Not conclusive data for classification.

f) carcinogenicity:

Not conclusive data for classification.

g) reproductive toxicity;

Not conclusive data for classification.

h) STOT-single exposure;

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

i) STOT-repeated exposure;

Not conclusive data for classification.

j) aspiration hazard;

Not conclusive data for classification.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

There is no information available on the biodegradability of the substances present.

12.2 Persistence and degradability.

There is no information available on the degradability of the substances present.

No information is available regarding the degradability of the substances present. No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.

No information is available regarding the bioaccumulation of the substances present.

12.4 Mobility in soil.

No information is available about the mobility in soil.

The product must not be allowed to go into sewers or waterways.

Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

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12.6 Other adverse effects.

No information is available about other adverse effects for the environment.

SECTION 13 DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

SECTION 14: TRANSPORT INFORMATION.

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

Land: Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions

<u>Sea</u>: Transport by ship: IMDG. Transport documentation: Bill of lading <u>Air</u>: Transport by plane: ICAO/IATA. Transport document: Airway bill.

14.1 UN number. UN No: UN3082

14.2 UN proper shipping name.

Description:

ADR: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL / EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT \leq 700), REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN)), 9, PG III

IMDG: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL / EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT ≤ 700),REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN) / FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL), 9, PG III, MARINE POLLUTANT

ICAO/IATA: UN 3082, ÉNVIRONMENTALLY HAZARDOUS ŚUBSTANCE, LIQUID, N.O.S. (CONTAINS FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL / EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT ≤ 700),REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN)), 9, PG III

14.3 Transport hazard class(es).

Class(es): 9

14.4 Packing group.

Packing group: III

14.5 Environmental hazards.

Marine pollutant: Yes



Dangerous for the environment

14.6 Special precautions for user.

Labels: 9

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Hazard number: 90 ADR LQ: 5 L IMDG LQ: 5 L ICAO LQ: 30 kg B

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR. Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-A,S-F Proceed in accordance with point 6.

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

The product is not transported in bulk.

SECTION 15: REGULATORY INFORMATION.

This information is shown on the current Safety Data Sheet for the Preparation.

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

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Volatile organic compound (VOC) VOC content (p/p): 10,9 % VOC content: 127,53 g/l

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): E2

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION.

Complete text of the H phrases that appear in section 3:

H225 Highly flammable liquid and vapour.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.

Classification codes:

Aquatic Chronic 2: Chronic effect to the aquatic environment, Category 2

Eye Irrit. 2 : Eye irritation, Category 2 Flam. Liq. 2 : Flammable liquid, Category 2 Skin Irrit. 2 : Skin irritant, Category 2 Skin Sens. 1 : Skin sensitiser, Category 1

STOT SE 3 : Specific target organ toxicity following a single exposure, Category 3

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Sections changed compared with the previous version:

1,2,3,5,6,8,16

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Abbreviations and acronyms used:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CEN: European Committee for Standardization.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be

considered a tolerable minimum.

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not

anticipated.

PPE: Personal protection equipment.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Code for Dangerous Goods.

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

Key literature references and sources for data:

http://eur-lex.europa.eu/homepage.html

http://echa.europa.eu/

Regulation (EU) 2015/830. Regulation (EC) No 1907/2006. Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.

(in accordance with Regulation (EU) 2015/830)

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SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING.

1.1 Product identifier.

Product Name: Dr. Sails (Component B)

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

Adhesive

Uses advised against:

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Company: **Sailing Technologies, S.L.**Address: C/ CALATRAVA N° 68, BAJOS 3

City: 08017 BARCELONA
Province: BARCELONA
Telephone: +34 932 693 348
E-mail: info@glooers.com
Web: www.glooers.com

1.4 Emergency telephone number: (Only available during office hours)

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the mixture.

In accordance with Regulation (EU) No 1272/2008:

Acute Tox. 4: Harmful if swallowed. Eye Dam. 1: Causes serious eye damage. Skin Irrit. 2: Causes skin irritation.

Skin Sens. 1: May cause an allergic skin reaction.

2.2 Label elements.

Labelling in accordance with Regulation (EU) No 1272/2008:

Pictograms:





Signal Word:

Danger

H statements:

H302 Harmful if swallowed. H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

P statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P310 Immediately call a POISON CENTER/doctor/... P321 Specific treatment (see ... on this label).

P501 Dispose of contents/container in chemical containers

EUH statements:

(in accordance with Regulation (EU) 2015/830)

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EUH208 Contains 1,2-diaminoethane,ethylenediamine. May produce an allergic reaction. EUH208 Contains trimethylhexane-1,6-diamine. May produce an allergic reaction.

Contains:

2,4,6-tris(dimethylaminomethyl)phenol 3-aminomethyl-3,5,5-trimethylcyclohexylamine

2.3 Other hazards.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not Applicable.

3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

			(*)Classification No 127	- Regulation (EC) 2/2008
Identifiers	Name	Concentrate	Classification	specific concentration limit
Index No: 612-067- 00-9 CAS No: 2855-13-2 EC No: 220-666-8 Registration No: 01- 2119514687-32-XXXX	3-aminomethyl-3,5,5-trimethylcyclohexylamine	3 - 5 %	Acute Tox. 4 *, H312 - Acute Tox. 4 *, H302 - Aquatic Chronic 3, H412 - Skin Corr. 1B, H314 - Skin Sens. 1, H317	1
Index No: 603-069- 00-0 CAS No: 90-72-2 EC No: 202-013-9 Registration No: 01- 2119560597-27-XXXX	2,4,6-tris(dimethylaminomethyl)phenol	1 - 10 %	Acute Tox. 4 *, H302 - Eye Irrit. 2, H319 - Skin Irrit. 2, H315	-
Index No: 612-006- 00-6 CAS No: 107-15-3 EC No: 203-468-6 Registration No: 01- 2119480383-37-XXXX	1,2-diaminoethane,ethylenediamine	0.1 - 1 %	Acute Tox. 4 *, H312 - Acute Tox. 4 *, H302 - Flam. Liq. 3, H226 - Resp. Sens. 1, H334 - Skin Corr. 1B, H314 - Skin Sens. 1, H317	-
CAS No: 25620-58-0 EC No: 247-134-8	trimethylhexane-1,6-diamine	0.1 - 1 %	Acute Tox. 4, H302 - Aquatic Chronic 3, H412 - Skin Corr. 1B, H314 - Skin Sens. 1, H317	-

^(*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

SECTION 4: FIRST AID MEASURES.

IRRITANT PREPARATION. Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

^{*} See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.

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4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. **Never** administer anything orally to persons who are unconscious.

Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

Eye contact.

Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance. Dont let the person to rub the affected eye.

Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. **NEVER** use solvents or thinners.

Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. **NEVER** induce vomiting.

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

Corrosive Product, contact with eyes or skin can cause burns; ingestion or inhalation can cause internal damage, if this occurs immediate medical assistance is required.

Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.

Contact with eyes may cause irreversible damage.

It may cause an allergic reaction, dermatitis, redness or inflammation of the skin.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Do not induce vomiting. If the person vomits, clear the respiratory tract.

SECTION 5: FIREFIGHTING MEASURES.

The product does not present any particular risk in case of fire.

5.1 Extinguishing media.

Suitable extinguishing media:

Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2 Special hazards arising from the mixture.

Special risks.

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.

Prevent the contamination of drains, surface or subterranean waters, and the ground.

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6.3 Methods and material for containment and cleaning up.

Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc.). Pour the product and the absorbent in an appropriate container. The contaminated area should be immediately cleaned with an appropriate de-contaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8. For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

For personal protection, see section 8. Never use pressure to empty the containers. They are not pressure-resistant containers. In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 35° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

The product is not affected by Directive 2012/18/EU (SEVESO III).

7.3 Specific end use(s).

Sailing

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

The product does NOT contain substances with Professional Exposure Environmental Limit Values. The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Туре	Value
2,4,6-tris(dimethylaminomethyl)phenol	DNEL	Inhalation, Long-term, Systemic effects	0,31
CAS No: 90-72-2	(Workers)		(mg/m³)
EC No: 202-013-9			
1,2-diaminoethane,ethylenediamine	DNEL	Inhalation, Long-term, Systemic effects	25
CAS No: 107-15-3	(Workers)		(mg/m³)
EC No: 203-468-6			

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100 %
Uses:	Adhesive
Breathing protect	tion:
PPE:	Filter mask for protection against gases and particles.
Characteristics:	«CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.
CEN standards:	EN 136, EN 140, EN 405
Maintenance:	Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor.

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Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach Observations:

the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols:

P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.

Filter Type needed:

Hand protection:

PPE: Protective gloves against chemicals. Characteristics: «CE» marking, category III.

CEN standards: EN 374-1, En 374-2, EN 374-3, EN 420

Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible.

Maintenance: Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or

Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Observations:

Always use with clean, dry hands.

Breakthrough time Material thickness 0,35 Material: PVC (polyvinyl chloride) > 480 (min.): (mm):

Eye protection:

PPE: Protective goggles with built-in frame.

«CE» marking, category II. Eye protector with built-in frame for protection against Characteristics:

splashing liquid, dust, smoke, fog and vapour.

EN 165, EN 166, EN 167, EN 168 CEN standards:

Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should Maintenance:

be disinfected periodically following the manufacturer's instructions.

Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, Observations:

scraping etc.

Skin protection:

Protective clothing. PPE:

«CE» marking, category II. Protective clothing should not be too tight or loose in Characteristics:

order not to obstruct the user's movements.

CEN standards: EN 340

In order to quarantee uniform protection, follow the washing and maintenance instructions provided by Maintenance:

the manufacturer.

The protective clothing should offer a level of comfort in line with the level of protection provided in Observations:

terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level

of activity and the expected time of use

PPF. Work footwear.

Characteristics: «CE» marking, category II. EN ISO 13287, EN 20347 CEN standards:

This product adapts to the first user's foot shape. That is why, as well as for hygienic reasons, it should Maintenance:

not be used by other people.

Work footwear for professional use includes protection elements aimed at protecting users against any Observations:

injury resulting from an accident

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Appearance: Yellowish liquid

Colour: Amarillo Odour:strongly Sulphur Odour threshold: N.A./N.A.

pH:N.A./N.A.

Melting point: N.A./N.A. Boiling Point: >200 °C Flash point: > 60 °C Evaporation rate: N.A./N.A.

Inflammability (solid, gas): Not flammable

Lower Explosive Limit: N.A./N.A. Upper Explosive Limit: N.A./N.A. Vapour pressure: <0.001 kPa Vapour density: N.A./N.A. Relative density:1,2 g/cm³ Solubility: N.A./N.A. Liposolubility: N.A./N.A.

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Hydrosolubility: Practically insoluble

Partition coefficient (n-octanol/water): N.A./N.A.

Auto-ignition temperature: N.A./N.A. Decomposition temperature: N.A./N.A.

Viscosity: 20000-40000 Explosive properties: N.A./N.A. Oxidizing properties: N.A./N.A.

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

9.2 Other information.

Pour point: N.A./N.A. Blink: N.A./N.A.

Kinematic viscosity: N.A./N.A.

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

The product does not present hazards by their reactivity.

10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions.

The product does not present possibility of hazardous reactions.

10.4 Conditions to avoid.

Avoid any improper handling.

10.5 Incompatible materials.

Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

10.6 Hazardous decomposition products.

No decomposition if used for the intended uses.

SECTION 11: TOXICOLOGICAL INFORMATION.

IRRITANT PREPARATION. Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

11.1 Information on toxicological effects.

There are no tested data available on the product.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

a) acute toxicity;

Product classified:

Acute toxicity (Oral), Category 4: Harmful if swallowed.

Acute Toxicity Estimate (ATE):

Mixtures:

ATE (Dermal) = 4.136 mg/kgATE (Oral) = 1.233 mg/kg

b) skin corrosion/irritation;

Product classified:

Skin irritant, Category 2: Causes skin irritation.

c) serious eye damage/irritation;

Product classified:

Serious eye damage, Category 1: Causes serious eye damage.

d) respiratory or skin sensitisation;

Product classified:

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Skin sensitiser, Category 1: May cause an allergic skin reaction.

e) germ cell mutagenicity;

Not conclusive data for classification.

f) carcinogenicity;

Not conclusive data for classification.

g) reproductive toxicity;

Not conclusive data for classification.

h) STOT-single exposure;

Not conclusive data for classification.

i) STOT-repeated exposure;

Not conclusive data for classification.

j) aspiration hazard;

Not conclusive data for classification.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

There is no information available on the biodegradability of the substances present.

12.2 Persistence and degradability.

There is no information available on the degradability of the substances present.

No information is available regarding the degradability of the substances present. No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.

No information is available regarding the bioaccumulation of the substances present.

12.4 Mobility in soil.

No information is available about the mobility in soil.

The product must not be allowed to go into sewers or waterways.

Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

12.6 Other adverse effects.

No information is available about other adverse effects for the environment.

SECTION 13 DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

SECTION 14: TRANSPORT INFORMATION.

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

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14.1 UN number.

Transportation is not dangerous.

14.2 UN proper shipping name.

Description:

ADR: Transportation is not dangerous. IMDG: Transportation is not dangerous.

ICAO/IATA: Transportation is not dangerous.

14.3 Transport hazard class(es).

Transportation is not dangerous.

14.4 Packing group.

Transportation is not dangerous.

14.5 Environmental hazards.

Transportation is not dangerous.

14.6 Special precautions for user.

Transportation is not dangerous.

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

Transportation is not dangerous.

SECTION 15: REGULATORY INFORMATION.

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

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Volatile organic compound (VOC)

VOC content (p/p): 9,5 % VOC content: 114 g/l

The product is not affected by Directive 2012/18/EU (SEVESO III).

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION.

Complete text of the H phrases that appear in section 3:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H412 Harmful to aquatic life with long lasting effects.

Classification codes:

Acute Tox. 4: Acute toxicity (Dermal), Category 4

(in accordance with Regulation (EU) 2015/830)

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Acute Tox. 4: Acute toxicity (Oral), Category 4

Aquatic Chronic 3: Chronic effect to the aquatic environment, Category 3

Eye Dam. 1 : Serious eye damage, Category 1
Eye Irrit. 2 : Eye irritation, Category 2
Flam. Liq. 3 : Flammable liquid, Category 3
Resp. Sens. 1 : Respiratory sensitiser, Category 1
Skin Corr. 1B : Skin Corrosive, Category 1B
Skin Irrit. 2 : Skin irritant, Category 2
Skin Sens. 1 : Skin sensitiser, Category 1

Sections changed compared with the previous version:

1,2,3,4,8,11,14,16

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Abbreviations and acronyms used:

CEN: European Committee for Standardization.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be

considered a tolerable minimum.

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not

anticipated.

PPE: Personal protection equipment.

Key literature references and sources for data:

http://eur-lex.europa.eu/homepage.html

http://echa.europa.eu/

Regulation (EU) 2015/830. Regulation (EC) No 1907/2006. Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.



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