



Safety data sheet (e-SDS)

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation




BENFER JOLLY Comp.A 24-01416-AA

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

- 1.1 Product identifier:** BENFER JOLLY Comp.A
24-01416-AA
- Other means of identification:**
- UFI:** GU50-COD5-W00J-NG1F
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant uses: Adhesive for construction. For professional users only.
IDENTIFIED USES: Professional (SU22)
Uses advised against: All uses not specified in this section or in section 7.3
Please see the annex for detailed information about the specific and safe usage of the product.
- 1.3 Details of the supplier of the safety data sheet:**
LATICRETE EUROPE SRL a socio unico
Via Paletti snc
41051 Castelnuovo Rangone - Italia
Phone: +39 059 535 540 - Fax: +39 059 538 338
sicurezza@benfer.it
<http://www.benfer.it>
- 1.4 Emergency telephone number:** NHS Direct (UK): +44 0845 46 47
Europe's emergency number: 112
Company number (08:00 - 18:00 CET): (+39) 059 535540

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**
- CLP Regulation (EC) No 1272/2008:**
Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412
Eye Irrit. 2: Eye irritation, Category 2, H319
Skin Irrit. 2: Skin irritation, Category 2, H315
Skin Sens. 1A: Sensitisation, skin, Category 1A, H317
- 2.2 Label elements:**
- CLP Regulation (EC) No 1272/2008:**
- Warning**
- 
- Hazard statements:**
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
- Precautionary statements:**
P264: Wash thoroughly after handling.
P273: Avoid release to the environment.
P280: Wear protective gloves/eye protection/face protection.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.
- Supplementary information:**
EUH205: Contains epoxy constituents. May produce an allergic reaction.
Contains Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled, Phenol, methylstyrenated.
- UFI:** GU50-COD5-W00J-NG1F
- 2.3 Other hazards:**

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BENFER JOLLY Comp.A
24-01416-AA

SECTION 2: HAZARDS IDENTIFICATION (continued)

Product fails to meet PBT/vPvB criteria
Endocrine-disrupting properties: The product fails to meet the criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Mixture composed of additives, pigments and resins

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 1675-54-3 EC: 216-823-5 Index: 603-073-00-2 REACH: 01-2119456619-26-XXXX	Bis-[4-(2,3-epoxipropoxy)phenyl]propane⁽¹⁾ ATP CLP00 Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	5 - <6 %
CAS: 68512-30-1 EC: 270-966-8 Index: Non-applicable REACH: 01-2119555274-38-XXXX	Phenol, methylstyrenated⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Chronic 3: H412; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	1 - <2 %
CAS: 68609-97-2 EC: 271-846-8 Index: 603-103-00-4 REACH: 01-2119485289-22-XXXX	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.⁽¹⁾ ATP CLP00 Regulation 1272/2008 Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	1 - <2 %
CAS: 8007-24-7 EC: 700-991-6 Index: Non-applicable REACH: 01-2119502450-57-XXXX	Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled⁽¹⁾ Self-classified Regulation 1272/2008 Acute Tox. 4: H302+H312; Aquatic Chronic 3: H412; Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1A: H317 - Danger	<0,6 %

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Other information:

Identification	Specific concentration limit
Bis-[4-(2,3-epoxipropoxy)phenyl]propane CAS: 1675-54-3 EC: 216-823-5	% (w/w) >=5: Skin Irrit. 2 - H315 % (w/w) >=5: Eye Irrit. 2 - H319

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

- CONTINUED ON NEXT PAGE -



BENFER JOLLY Comp.A
24-01416-AA

SECTION 4: FIRST AID MEASURES (continued)

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilled product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

- CONTINUED ON NEXT PAGE -



BENFER JOLLY Comp.A
24-01416-AA

SECTION 7: HANDLING AND STORAGE (continued)

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Maximum time: 12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Please see the annex for detailed information about handling, storage and specific end uses.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

There are no applicable occupational exposure limits for the substances contained in the product

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Bis-[4-(2,3-epoxipropoxy)phenyl]propane CAS: 1675-54-3 EC: 216-823-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,75 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	4,93 mg/m ³	Non-applicable
Phenol, methylstyrenated CAS: 68512-30-1 EC: 270-966-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	3,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,41 mg/m ³	Non-applicable
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. CAS: 68609-97-2 EC: 271-846-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	1 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	3,6 mg/m ³	Non-applicable
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled CAS: 8007-24-7 EC: 700-991-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	2,1 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	7,4 mg/m ³	Non-applicable

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Bis-[4-(2,3-epoxipropoxy)phenyl]propane CAS: 1675-54-3 EC: 216-823-5	Oral	Non-applicable	Non-applicable	0,5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,0893 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,87 mg/m ³	Non-applicable

- CONTINUED ON NEXT PAGE -



BENFER JOLLY Comp.A
24-01416-AA

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Phenol, methylstyrenated CAS: 68512-30-1 EC: 270-966-8	Oral	Non-applicable	Non-applicable	0,2 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,67 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,348 mg/m ³	Non-applicable
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. CAS: 68609-97-2 EC: 271-846-8	Oral	Non-applicable	Non-applicable	0,5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,5 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,87 mg/m ³	Non-applicable
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled CAS: 8007-24-7 EC: 700-991-6	Oral	Non-applicable	Non-applicable	0,75 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,75 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,31 mg/m ³	Non-applicable

PNEC:

Identification				
Bis-[4-(2,3-epoxipropoxy)phenyl]propane CAS: 1675-54-3 EC: 216-823-5	STP	10 mg/L	Fresh water	0,006 mg/L
	Soil	0,065 mg/kg	Marine water	0,001 mg/L
	Intermittent	0,018 mg/L	Sediment (Fresh water)	0,341 mg/kg
	Oral	0,011 g/kg	Sediment (Marine water)	0,034 mg/kg
Phenol, methylstyrenated CAS: 68512-30-1 EC: 270-966-8	STP	2,4 mg/L	Fresh water	0,014 mg/L
	Soil	212,2 mg/kg	Marine water	0,0014 mg/L
	Intermittent	0,14 mg/L	Sediment (Fresh water)	1064 mg/kg
	Oral	0,00889 g/kg	Sediment (Marine water)	106,4 mg/kg
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. CAS: 68609-97-2 EC: 271-846-8	STP	10 mg/L	Fresh water	0,106 mg/L
	Soil	1,234 mg/kg	Marine water	0,011 mg/L
	Intermittent	0,072 mg/L	Sediment (Fresh water)	307,16 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	30,72 mg/kg
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled CAS: 8007-24-7 EC: 700-991-6	STP	100 mg/L	Fresh water	0,0114 mg/L
	Soil	171,41 mg/kg	Marine water	0,00114 mg/L
	Intermittent	Non-applicable	Sediment (Fresh water)	5 mg/kg
	Oral	0,0333 g/kg	Sediment (Marine water)	0,5 mg/kg

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours	CE CAT III	EN 405:2002+A1:2010	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
Mandatory hand protection	Protective gloves against minor risks	CE CAT I		Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+A1:2010 and EN ISO 374-1:2016+A1:2018

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.



- CONTINUED ON NEXT PAGE -





BENFER JOLLY Comp.A
24-01416-AA

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)



D.- Eye and face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.		EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing			Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes		EN ISO 20347:2012	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	0 % weight
V.O.C. density at 20 °C:	0 kg/m ³ (0 g/L)
Average carbon number:	Non-applicable
Average molecular weight:	Non-applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:

Physical state at 20 °C:	Liquid
Appearance:	Paste
Colour:	White
Odour:	Sweet
Odour threshold:	Non-applicable *

Volatility:

Boiling point at atmospheric pressure:	Non-applicable *
Vapour pressure at 20 °C:	Non-applicable *
Vapour pressure at 50 °C:	<300000 Pa (300 kPa)
Evaporation rate at 20 °C:	Non-applicable *

Product description:

*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -



BENFER JOLLY Comp.A
24-01416-AA

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Density at 20 °C:	1800 - 2000 kg/m ³
Relative density at 20 °C:	1,9
Dynamic viscosity at 20 °C:	500000 - 600000 cP
Kinematic viscosity at 20 °C:	250000 - 350000 mm ² /s
Kinematic viscosity at 40 °C:	>20,5 mm ² /s
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Insoluble in water
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *

Flammability:

Flash Point:	Non Flammable (>60 °C)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	Non-applicable *
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *

Particle characteristics:

Median equivalent diameter:	Non-applicable
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9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
Corrosive to metals:	Non-applicable *
Heat of combustion:	Non-applicable *
Aerosols-total percentage (by mass) of flammable components:	Non-applicable *

Other safety characteristics:

Surface tension at 20 °C:	Non-applicable *
Refraction index:	Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

- CONTINUED ON NEXT PAGE -



BENFER JOLLY Comp.A
24-01416-AA

SECTION 10: STABILITY AND REACTIVITY (continued)

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
 IARC: Bis-[4-(2,3-epoxipropoxy)phenyl]propane (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

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BENFER JOLLY Comp.A
24-01416-AA

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
	LD50 oral	LD50 dermal	
Bis-[4-(2,3-epoxypropoxy)phenyl]propane CAS: 1675-54-3 EC: 216-823-5	Non-applicable		
		20000 mg/kg	Rabbit
	Non-applicable		
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled CAS: 8007-24-7 EC: 700-991-6	500 mg/kg		Rat
	Non-applicable		
	Non-applicable		

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product fails to meet the criteria.

Other information

Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

12.1 Toxicity:

Acute toxicity:

Identification	Concentration		Species	Genus
	LC50	EC50		
Phenol, methylstyrenated CAS: 68512-30-1 EC: 270-966-8	>10 - 100 mg/L (96 h)			Fish
	>10 - 100 mg/L (48 h)			Crustacean
	>10 - 100 mg/L (72 h)			Algae
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled CAS: 8007-24-7 EC: 700-991-6	>10 - 100 mg/L (96 h)			Fish
	>10 - 100 mg/L (48 h)			Crustacean
	>10 - 100 mg/L (72 h)			Algae

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
	BOD5	COD	Concentration	Period
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled CAS: 8007-24-7 EC: 700-991-6	Non-applicable			19.2 mg/L
	Non-applicable		Period	28 days
	Non-applicable		% Biodegradable	96 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential	
	BCF	Pow Log
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled CAS: 8007-24-7 EC: 700-991-6	882	6.2
		High

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
	Koc	Conclusion	Henry	Potential
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled CAS: 8007-24-7 EC: 700-991-6	122.51	Moderate	Dry soil	Non-applicable
			Moist soil	Non-applicable
	Non-applicable			

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product fails to meet the criteria.

- CONTINUED ON NEXT PAGE -



BENFER JOLLY Comp.A
24-01416-AA

SECTION 12: ECOLOGICAL INFORMATION (continued)

12.7 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances	Dangerous

Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:

- 14.1 UN number or ID number:** Non-applicable
- 14.2 UN proper shipping name:** Non-applicable
- 14.3 Transport hazard class(es):** Non-applicable
- Labels: Non-applicable
- 14.4 Packing group:** Non-applicable
- 14.5 Environmental hazards:** No
- 14.6 Special precautions for user**
- Special regulations: Non-applicable
- Tunnel restriction code: Non-applicable
- Physico-Chemical properties: see section 9
- Limited quantities: Non-applicable
- 14.7 Maritime transport in bulk according to IMO instruments:** Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 40-20:



BENFER JOLLY Comp.A
24-01416-AA

SECTION 14: TRANSPORT INFORMATION (continued)

14.1 UN number or ID number:	Non-applicable
14.2 UN proper shipping name:	Non-applicable
14.3 Transport hazard class(es):	Non-applicable
Labels:	Non-applicable
14.4 Packing group:	Non-applicable
14.5 Marine pollutant:	No
14.6 Special precautions for user	
Special regulations:	Non-applicable
EmS Codes:	
Physico-Chemical properties:	see section 9
Limited quantities:	Non-applicable
Segregation group:	Non-applicable
14.7 Maritime transport in bulk according to IMO instruments:	Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:

14.1 UN number or ID number:	Non-applicable
14.2 UN proper shipping name:	Non-applicable
14.3 Transport hazard class(es):	Non-applicable
Labels:	Non-applicable
14.4 Packing group:	Non-applicable
14.5 Environmental hazards:	No
14.6 Special precautions for user	
Physico-Chemical properties:	see section 9
14.7 Maritime transport in bulk according to IMO instruments:	Non-applicable

SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

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BENFER JOLLY Comp.A
24-01416-AA

SECTION 15: REGULATORY INFORMATION (continued)

15.2 Chemical safety assessment:

The provider has carried out a chemical safety assessment

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Non-applicable

Texts of the legislative phrases mentioned in section 2:

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H412: Harmful to aquatic life with long lasting effects.

H317: May cause an allergic skin reaction.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H302+H312 - Harmful if swallowed or in contact with skin.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Eye Dam. 1: H318 - Causes serious eye damage.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Skin Sens. 1A: H317 - May cause an allergic skin reaction.

Classification procedure:

Skin Irrit. 2: Calculation method

Eye Irrit. 2: Calculation method

Aquatic Chronic 3: Calculation method

Skin Sens. 1A: Calculation method

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient

Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

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BENFER JOLLY Comp.A
24-01416-AA

ANNEX: SAFE USE

INFORMATION FOR SAFE USE

The relevant exhibition scenarios relating to the substances that make up the mixture are reported in this document.

End-use sector: PROFESSIONAL

Process category:

PROC10: application with rollers or brushes.

PROC19: manual mixing in direct contact, with the sole use of personal protective equipment.

Cashew shell oil

1 - Abbreviated title of the exhibition scenario: Professional application of epoxy resins and hardeners

List of usage descriptors:

Substance supplied for such use in the form of: mixture

End-use sector: professional – SU22

Environmental release category:

ERC08c: extensive internal dispersive use resulting in inclusion in a matrix or application to an ERC08f matrix: extensive external dispersive use resulting in inclusion in an array or application to a matrix

Process categories:

PROC10: application with rollers or brushes.

PROC19: manual mixing in direct contact, with the sole use of personal protective equipment.

2 - Exposure controls, estimation of environmental exposure and reference to its source

Contributory scenario controlling environmental exposure for ERC8c

Product features	The starting materials epoxy resins and hardeners contain < 1% cnsl free.
Frequency and duration of use:	365 days/year
Quantities used	Used annual tonnage of free CNSL = up to 50 tonnes Daily quantity of free CNSL used= up to 167 kg/day
Other operating conditions that affect environmental exposure	Fraction of tonnage released into the air by the process: 0 Fraction of tonnage released into wastewater from the process: 0.001 Fraction of tonnage released into surface water from the process: 0 Fraction of tonnage released into industrial soil by the process: 0.005 Fraction of tonnage released into agricultural land : 0 Fraction of the main local source: 0.002
On-site technical conditions and measures to reduce or limit discharges, emissions into the air and emissions to the soil:	Store in closed systems Collect all waste residues and wastewater in a sealed system for recycling and reuse or disposal by an authorized operator. Ensure general or controlled ventilation (5 to 15 air changes per hour).
Organizational measures to prevent or limit release from the site	All waste awaiting collection by the authorised disposal contractor shall be stored in a sealed closed system. The should have an environmental and waste containment plan to prevent release into the aquatic environment.
Conditions and measures relating to the municipal wastewater treatment plant	The controlled release of any wastewater potentially containing free CNSL to a municipal wastewater purification was considered both for local fresh water and for marine assessment (for example, wastewater does not exclude waste purification system Size of the municipal wastewater treatment plant: 2000 m ³ /day Receiving water flow: 18000 m ³ /day Dilution factor (fresh water) = 10

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BENFER JOLLY Comp.A
24-01416-AA

ANNEX: SAFE USE (continued)

	Dilution factor (marine waters)= 100 Fraction of degraded emissions in the wastewater treatment plant = 93.2% No on-site wastewater treatment was considered which is expected to reduce the concentration of free CNSL municipal wastewater treatment plant and reduce the expected environmental concentration in the water.
Conditions and measures relating to the external treatment of waste for disposal	All waste is to be treated as contaminated chemical waste. Disposal by incineration.
Other measures	Comply with local regulations.
Estimation of environmental exposure	If the risk management measures and recommended operating conditions are complied with, exposures are expected to exceed the expected concentrations without effect and therefore the risk characterisation ratios will be less than 1.
Evaluation method	To obtain estimates reflecting the conditions of use of the Cashew Nut Shell Liquid (CNSL), the default release values in Tables A- & B (EC 20031) and the descriptions of the ERC in the ECHA Guidelines on Chemical Safety Evaluation Assessment Requirements, Chapter R.16: Estimation of Environmental Exposure, were considered. IN this case exposure estimation was made considering predefined assumptions implemented in the EU2S V2.12 exhibition mode

Contributory scenario controlling environmental exposure for ERC8f

Product features	The starting materials epoxy resins and hardeners contain < 1% CNSL free.
Frequency and duration of use:	365 days/year
Quantities used	Used annual tonnage of free CNSL = up to 50 tonnes Daily quantity of free CNSL used= up to 167 kg/day
Other operating conditions that affect environmental exposure	Fraction of tonnage released into the air by the process: 0 Fraction of tonnage released into wastewater from the process: 0.001 Fraction of tonnage released into surface water from the process: 0 Fraction of tonnage released into industrial soil by the process: 0.005 Fraction of tonnage released into agricultural land : 0 Fraction of the main local source: 0.002
On-site technical conditions and measures to reduce or limit discharges, emissions into the air and emissions to the soil:	Store in closed systems Collect all waste residues and wastewater in a sealed system for recycling and reuse or disposal by an authorized operator. Ensure general or controlled ventilation (5 to 15 air changes per hour).
Organizational measures to prevent or limit release from the site	All waste awaiting collection by the authorised disposal contractor shall be stored in a sealed closed system. The contractor should have an environmental and waste containment plan to prevent release into the aquatic environment.
Conditions and measures relating to the municipal wastewater treatment plant	The controlled release of any wastewater potentially containing free CNSL to a municipal wastewater purification system was considered both for local fresh water and for marine assessment (for example, wastewater does not exclude a municipal purification system Size of the municipal wastewater treatment plant: 2000 m ³ /day Receiving water flow: 18000 m ³ /day Dilution factor (fresh water) = 10 Dilution factor (marine waters)= 100 Fraction of degraded emissions in the wastewater treatment plant = 93.2% No on-site wastewater treatment was considered which is expected to reduce the concentration of free CNSL municipal wastewater treatment plant and reduce the expected environmental concentration in the water.
Conditions and measures relating to the external treatment of waste for disposal	All waste is to be treated as contaminated chemical waste. Disposal by incineration.
Other measures	Comply with local regulations.
Estimation of environmental exposure	If the risk management measures and recommended operating conditions are complied with, exposures are not expected to exceed the expected concentrations without effect and therefore the risk characterisation ratios will be less than 1.
Evaluation method	To obtain estimates reflecting the conditions of use of the Cashew Nut Shell Liquid (CNSL), the default release values in Tables A- & B (EC 20031) and the descriptions of the ERC in the ECHA Guidelines on Chemical Safety Evaluation Assessment Requirements, Chapter R.16: Estimation of Environmental Exposure, were considered. IN this case exposure estimation was made considering predefined assumptions implemented in the EU2S V2.12 exhibition mode

Contributory scenario that controls worker exposure for PROC10

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BENFER JOLLY Comp.A
24-01416-AA

ANNEX: SAFE USE (continued)

Covered usage descriptors	Application with rollers or brushes
Area of use	Professional (SU22)
Operating conditions	
Concentration of the substance	The resins contain < 1 % of free CNSL.
Physical form of the substance	Liquid
Quantities used:	up to 50 tons of free CNSL per year
Operating temperature	Up to 70°C
Duration and frequency application	8 hours a day, 5 days/week
Human factors not affected by risk management	Not applicable.
Other operating conditions that affect the exposure of insiders	indoor use
Technical conditions and precautions	Indoor: Exhaust air ventilation system (LEV) in processing zones. Delimit the area where possible. Avoid contact with treated surfaces. Wear hand protection (EN374 standard as a minimum), eye protection (EN166 standard as a minimum). Wear the air mask respirator as a minimum EN140. Wear protective clothing (EN368 standard at least in combination with adequate training for the management of personal protective equipment. Duration > 4 hours.
Organizational measures to avoid/limit spillage, dispersion and exposure	Adopt an adequate standard of cleanliness at work.
Management measures for Risks	Immediately clean the spills. Store wastewater and discharges in a sealed system for later disposal by an authorised operator or recycling/reuse. Wear hand protection (EN374 standard as a minimum), eye protection (EN166 standard as a minimum). Typical duration 15 – 60 minutes.
Estimation of exposure and reference to its source	On the basis of known operating conditions and taking into account risk management measures, the expected exposures are not assumed to exceed the expected no-effect derived limits and that the resulting risk characterisation levels are less than 1. Additional risk management measures may be taken for good industrial hygiene.
Valuation method	Estimates for worker exposures for activities associated with cnSL use were evaluated with ECETOC TRAv2.

Contributory scenario controlling worker exposure for PROC19

Covered usage descriptors	manual mixing in direct contact, with the sole use of personal protective equipment.
Area of use	Professional (SU22)
Operating conditions	
Concentration of the substance	The resins contain < 1 % of free CNSL.
Physical form of the substance	Liquid
Quantities used:	up to 50 tons of free CNSL per year
Operating temperature	Up to 70°C
Duration and frequency application	8 hours a day, 5 days/week
Human factors not affected by risk management	Not applicable.
Other operating conditions that affect the exposure of insiders	indoor use
Technical conditions and Precautions	Indoor: Unload and disconnect the mixing system before turning off the equipment or maintenance. Clean each spill immediately. Keep wastewater and discharges in a sealed system for later disposal by authorized operator
Organizational measures to avoid/limit spillage, dispersion and exposure	Adopt an adequate standard of cleanliness at work.

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**BENFER JOLLY Comp.A
24-01416-AA**

ANNEX: SAFE USE (continued)

Management measures for Risks	Bone protection for hands (EN374 standard as a minimum), eye protection (EN166 minimum standard). Wear protective clothing (EN368 standard at least in combination with adequate training for the management of personal protective equipment. Duration 15-60 min.
Estimation of exposure and reference to its source	On the basis of known operating conditions and taking into account risk management measures, the expected exposures are not assumed to exceed the expected no-effect derived limits and that the resulting risk characterisation levels are less than 1. Additional risk management measures may be taken for good industrial hygiene.
Evaluation method	Estimates for worker exposures for activities associated with CNSL use were evaluated with ECETOC TRAv2.

3 - Downstream User Guide (DU) to assess whether it operates within the limits set by the ES

Health and environment No information.

Phenol methylstyrenate

1 - Abbreviated title of the exhibition scenario: Professional application of epoxy resins and hardeners

List of usage descriptors:

Substance supplied for such use in the form of: mixture
End-use sector: professional – SU22

Environmental release category:

ERC08c: extensive internal dispersive use resulting in inclusion in a matrix or application to an ERC08f matrix: extensive external dispersive use resulting in inclusion in an array or application to a matrix

Process categories:

PROC10: application with rollers or brushes.

PROC19: Manual mixing with direct contact, with the sole use of personal protective equipment

2 - Exposure controls, estimation of environmental exposure and reference to its source

Contributory scenario controlling environmental exposure for ERC8c

Product features	The substance is a UVCB complex, not biodegradable.
Frequency and duration of use:	365 days/year, continuous release
Quantities used	Used EU tonnage 3.00E+2 Fraction of EU tonnage used in the 1.00E-1 region Tonnage of use per region (t/year) 3.00E+01 Locally used regional tonnage fraction 2.00E-3 Maximum daily site tonnage (kg/day) 1.64E-1 Annual site tonnage (t/year) 6.00E-2 Daily quantity of free CNSL used= up to 167 kg/day
Unaffected environmental factors	Local freshwater dilution factor 1.00E+1 Local seawater dilution factor 1.00E+2
from risk	Recipient surface water flow (m3/d) 18000

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BENFER JOLLY Comp.A
24-01416-AA

ANNEX: SAFE USE (continued)

management																									
Other operating conditions that affect environmental exposure	Indoor use. Fraction leveled in air by the process (before MMRs) 0 Fraction released in wastewater by the process (before MMRs) 1.00 Fraction released into the soil by the process (before MMRs) 1.00E-4																								
Organizational measures to prevent or limit release from the site	Do not distribute the sludge generated by industrial water treatment on natural soils.																								
Conditions and measures relating to the municipal water purification plant of unloading	Total effectiveness of wastewater removal after on-site and offsite RMM (urban type treatment plant) RMM (%) Estimated substance removal from wastewater with urban treatment plant 8.90E+1 Total effectiveness of removal from wastewater 8.9E+1 Maximum permissible tonnage per site (Msafe) based on release after urban wastewater treatment (kg/d) 4.36E+1 Capacity assumed urban wastewater treatment plant (m3/d) 0																								
Conditions and measures relating to the external treatment of waste for disposal	The external treatment and disposal of waste must comply with local and/or national regulations.																								
Estimation of environmental exposure	<table border="0"> <tr> <td>Regional PEC in surface water (total) mg/l</td> <td>1.48E-4</td> </tr> <tr> <td>RcR regional part aquatic / fresh water</td> <td>8.25E-3</td> </tr> <tr> <td>Regional PEC in seawater (total) mg/l</td> <td>2.05E-5</td> </tr> <tr> <td>RcR regional part aquatic / sea water</td> <td>1.31E-2</td> </tr> <tr> <td>Regional PEC in soil mg/kg dwt</td> <td>2.72E-2</td> </tr> <tr> <td>Regional RCR in land</td> <td>2.09E-1</td> </tr> <tr> <td>PEC regioanle in freshwater sediments (total) mg/kg dwt</td> <td>3.66E+0</td> </tr> <tr> <td>Regional RCR in freshwater sediments</td> <td>6.92E-2</td> </tr> <tr> <td>Regional PEC in seawater sediments (total) mg/kg dwt</td> <td>5.78E-1</td> </tr> <tr> <td>Regional RCR in seawater sediments</td> <td>1.09E-1</td> </tr> <tr> <td>PEC for microorganisms in STP</td> <td>1.96E-4</td> </tr> <tr> <td>RcR wastewater treatment plant</td> <td>8.17E-5</td> </tr> </table>	Regional PEC in surface water (total) mg/l	1.48E-4	RcR regional part aquatic / fresh water	8.25E-3	Regional PEC in seawater (total) mg/l	2.05E-5	RcR regional part aquatic / sea water	1.31E-2	Regional PEC in soil mg/kg dwt	2.72E-2	Regional RCR in land	2.09E-1	PEC regioanle in freshwater sediments (total) mg/kg dwt	3.66E+0	Regional RCR in freshwater sediments	6.92E-2	Regional PEC in seawater sediments (total) mg/kg dwt	5.78E-1	Regional RCR in seawater sediments	1.09E-1	PEC for microorganisms in STP	1.96E-4	RcR wastewater treatment plant	8.17E-5
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RcR wastewater treatment plant	8.17E-5																								
Method of evaluation	ECETOC TRA v2 in advanced mode with ERC APPROACH.																								

Contributory scenario controlling environmental exposure for ERC8f

Product features	The substance is a UVCB complex, not biodegradable.
Frequency and duration of use:	365 days/year, continuous release
Quantities used	Used EU tonnage 3.00E+2 Fraction of EU tonnage used in the 1.00E-1 region Tonnage of use per region (t/year) 3.00E+01 Locally used regional tonnage fraction 2.00E-3 Maximum daily tonnage of the site (kg/day) 1.64E-1 Annual site tonnage (t/year) 6.00E-2 Daily quantity of free CNSL used= up to

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BENFER JOLLY Comp.A
24-01416-AA

ANNEX: SAFE USE (continued)

Environmental factors not affected by risk management	167 kg/day Local dilution factor in fresh water 1.00E+1 Local dilution factor in seawater 1.00E+2 Recipient surface water flow (m3/d) 18000																								
Other operating conditions that affect environmental exposure	Indoor use. Fraction leveled in air by the process (before MMRs) 0 Fraction released in wastewater by the process (before MMRs) 1.00 Fraction released into the soil by the process (before MMRs) 1.00E-4																								
Organizational measures to prevent or limit release from the site	Do not distribute the sludge generated by industrial water treatment on natural soils.																								
Conditions and measures relating to the municipal water purification plant of unloading	Total effectiveness of wastewater removal after on-site and offsite RMM (urban type treatment plant) RMM (%) Estimated substance removal from wastewater with urban treatment plant 8.90E+1 Total effectiveness of removal from wastewater 8.9E+1 Maximum permissible tonnage per site (Msafe) based on release after urban wastewater treatment (kg/d) 4.36E+1 Capacity assumed urban wastewater treatment plant (m3/d) 0																								
Conditions and measures relating to the external treatment of waste for disposal	The external treatment and disposal of waste must comply with local and/or national regulations.																								
Estimation of environmental exposure	<table border="0"> <tr> <td>Regional PEC in surface water (total) mg/l</td> <td>1.48E-4</td> </tr> <tr> <td>RcR regional part aquatic / fresh water</td> <td>8.25E-3</td> </tr> <tr> <td>Regional PEC in seawater (total) mg/l</td> <td>2.05E-5</td> </tr> <tr> <td>RcR regional part aquatic / sea water</td> <td>1.31E-2</td> </tr> <tr> <td>Regional PEC in soil mg/kg dwt</td> <td>2.72E-2</td> </tr> <tr> <td>Regional RCR in land</td> <td>2.09E-1</td> </tr> <tr> <td>Regional PEC in freshwater sediments (total) mg/kg dwt</td> <td>3.66E+0</td> </tr> <tr> <td>Regional RCR in freshwater sediments</td> <td>6.92E-2</td> </tr> <tr> <td>Regional PEC in seawater sediments (total) mg/kg dwt</td> <td>5.78E-1</td> </tr> <tr> <td>Regional RCR in seawater sediments</td> <td>1.09E-1</td> </tr> <tr> <td>PEC for microorganisms in STP</td> <td>1.96E-4</td> </tr> <tr> <td>RcR wastewater treatment plant</td> <td>8.17E-5</td> </tr> </table>	Regional PEC in surface water (total) mg/l	1.48E-4	RcR regional part aquatic / fresh water	8.25E-3	Regional PEC in seawater (total) mg/l	2.05E-5	RcR regional part aquatic / sea water	1.31E-2	Regional PEC in soil mg/kg dwt	2.72E-2	Regional RCR in land	2.09E-1	Regional PEC in freshwater sediments (total) mg/kg dwt	3.66E+0	Regional RCR in freshwater sediments	6.92E-2	Regional PEC in seawater sediments (total) mg/kg dwt	5.78E-1	Regional RCR in seawater sediments	1.09E-1	PEC for microorganisms in STP	1.96E-4	RcR wastewater treatment plant	8.17E-5
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Regional PEC in soil mg/kg dwt	2.72E-2																								
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Regional RCR in seawater sediments	1.09E-1																								
PEC for microorganisms in STP	1.96E-4																								
RcR wastewater treatment plant	8.17E-5																								
Evaluation method	ECETOC TRA v2 in advanced mode with ERC APPROACH.																								

Contributory scenario that controls worker exposure for PROC10

Covered usage descriptors	Application with rollers or brushes
Area of use	Professional (SU22)
Operating conditions	
Concentration of the substance	Up to 50%
Physical form of the substance	Liquid

- CONTINUED ON NEXT PAGE -



BENFER JOLLY Comp.A
24-01416-AA

ANNEX: SAFE USE (continued)

Quantities used:	without relevance in Advanced Reach Tool (ART)
Vapour pressure	10 Pa (default ART)
Duration and frequency application	8 hours a day, =<240 days/year
Human factors not affected by risk management	Not applicable.
Other operating conditions that affect the exposure of insiders	Outdoor
Technical conditions and measures relating to personal protection, hygiene and health assessment.	Wear appropriate gloves (EN374 tested) and eye protection, special training.
Organizational measures to avoid/limit spillage, dispersion and exposure	Avoid frequent and direct contact with the substance. Minimize manual steps. Regular cleaning of equipment a working area. On-site monitoring to verify that the RMM adopted are used correctly and that the CBs are respected.
Estimation of exposure and reference to its source	Long-term exposure – inhalation: 0.72 mg/m3 // RCR 0.01 Long-term exposure – cutaneous: 1.37 mg/kg/day // RCR 0.08
Evaluation method	Combined RCR 0.10 Advanced Reach Tool (ART)

Contributory scenario controlling worker exposure for PROC19

Covered usage descriptors	Manual mixing with direct contact, with the sole use of personal protective equipment
Area of use	Professional (SU22)
Operating conditions	
Concentration of the substance	Up to 50%
Physical form of the substance	Liquid
Quantities used:	without relevance in Advanced Reach Tool (ART)
Vapour pressure	10 Pa (default ART)
Duration and frequency application	8 hours a day, =<240 days/year
Human factors not affected by risk management	Not applicable.
Other operating conditions that affect the exposure of professionals	Outdoor
Technical conditions and measures relating to personal protection, hygiene and health assessment.	Wear appropriate gloves (EN374 tested) and eye protection, special training.
Organizational measures to avoid/limit spillage, dispersion and exposure	Avoid frequent and direct contact with the substance. Minimize manual steps. Regular cleaning of equipment a working area. On-site monitoring to verify that the RMM adopted are used correctly and that the CBs are respected.
Estimation of exposure and reference to its source	Long-term exposure – inhalation: 7.2E-3 mg/m3 // RCR 0.00 Long-term exposure – cutaneous: 7.07 mg/kg/day // RCR 0.43
Evaluation method	Combined RCR 0.43 Advanced Reach Tool (ART)

3 - Downstream User Guide (DU) to assess whether it operates within the limits set by the ES

Bless you Projected exposures are not expected to exceed the DNELs if the risk management measures/oper conditions described are implemented. Where different management measures are taken

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Safety data sheet (e-SDS)

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation



BENFER JOLLY Comp.A **24-01416-AA**

ANNEX: SAFE USE (continued)

risks/operating conditions users are required to ensure that risks are managed at at least an equivalent level.

Environment

The required efficiency of wastewater removal can be achieved using onsite/offsite technologies individually or in combination.

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -