


**ASOWOOD Comp.A
1473A****SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier:** ASOWOOD Comp.A
1473A
- Other means of identification:**
- UFI:** 3H00-Y0JQ-W00E-MRHH
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant uses: Cobble & Setts Jointing Compound. For professional users only.
Description/Usage: Epoxy-polyurethane adhesive for wooden floors
Professional use: SU22
PROC10: application with rollers or brushes.
PROC19: manual mixing in direct contact, with the only use of personal protective equipment.
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:**
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash thoroughly after handling.
P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.

** Changes with regards to the previous version

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SECTION 2: HAZARDS IDENTIFICATION ** (continued)

Supplementary information:

EUH205: Contains epoxy constituents. May produce an allergic reaction.

UFI: 3H00-Y0JQ-W00E-MRHH

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

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

** Changes with regards to the previous version

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS **

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Epoxides

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	6 - <7 %
Regulation 1272/2008	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning		
CAS: 68512-30-1 EC: 270-966-8 Index: Non-applicable REACH: 01-2119555274-38-XXXX	Phenol, methylstyrenated ⁽¹⁾	Self-classified	1 - <2 %
Regulation 1272/2008	Aquatic Chronic 3: H412; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning		
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	1 - <2 %
Regulation 1272/2008	Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning		
CAS: 141-78-6 EC: 205-500-4 Index: 607-022-00-5 REACH: 01-2119475103-46-XXXX	Ethyl acetate ⁽¹⁾	ATP CLP00	1 - <2 %
Regulation 1272/2008	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger	 	
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	<0,6 %
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	 	

⁽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

** Changes with regards to the previous version

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:

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**ASOWOOD Comp.A
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This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms 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 water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

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, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

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. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

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

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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

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

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

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for 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):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification	Occupational exposure limits		
	IOELV (8h)	200 ppm	734 mg/m ³
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	IOELV (STEL)	400 ppm	1468 mg/m ³

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

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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	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
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	63 mg/kg	Non-applicable
	Inhalation	1468 mg/m ³	1468 mg/m ³	734 mg/m ³	734 mg/m ³
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
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
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	Oral	Non-applicable	Non-applicable	4,5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	37 mg/kg	Non-applicable
	Inhalation	734 mg/m ³	734 mg/m ³	367 mg/m ³	367 mg/m ³
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
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	STP	650 mg/L	Fresh water	0,24 mg/L
	Soil	0,148 mg/kg	Marine water	0,024 mg/L
	Intermittent	1,65 mg/L	Sediment (Fresh water)	1,15 mg/kg
	Oral	0,2 g/kg	Sediment (Marine water)	0,115 mg/kg

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)



Identification				
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		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	Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)		EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

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.



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:

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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):	1,9 % weight
V.O.C. density at 20 °C:	34,2 kg/m ³ (34,2 g/L)
Average carbon number:	4
Average molecular weight:	88,1 g/mol

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:	Brown
Odour:	Fruity
Odour threshold:	Non-applicable *

Volatility:

Boiling point at atmospheric pressure:	77 °C
Vapour pressure at 20 °C:	10016 Pa
Vapour pressure at 50 °C:	38057,09 Pa (38,06 kPa)
Evaporation rate at 20 °C:	Non-applicable *

Product description:

Density at 20 °C:	1800 kg/m ³
Relative density at 20 °C:	1,75 - 1,85
Dynamic viscosity at 20 °C:	70000 - 90000 cP
Kinematic viscosity at 20 °C:	Non-applicable *
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
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *

Flammability:

Flash Point:	>60 °C (Does not maintain combustion)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	427 °C
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *

Particle characteristics:

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

** Changes with regards to the previous version

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES ** (continued)

Median equivalent diameter: Non-applicable

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.

** Changes with regards to the previous version

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	Precaution	Precaution	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	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):

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SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

- 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. However, it contains substances classified as hazardous for inhalation. 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. However, it does contain substances which are classified as dangerous due to repetitive exposure. 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

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
	LD50 oral	LD50 dermal	
Bis-[4-(2,3-epoxipropoxy)phenyl]propane CAS: 1675-54-3 EC: 216-823-5	LD50 oral	Non-applicable	
	LD50 dermal	20000 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	LD50 oral	4100 mg/kg	Rat
	LD50 dermal	20000 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled CAS: 8007-24-7 EC: 700-991-6	LD50 oral	500 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	>2000 mg/kg (Calculation method)	Non-applicable
Dermal	>2000 mg/kg (Calculation method)	Non-applicable
Inhalation	>20 mg/L (4 h) (Calculation method)	Non-applicable

11.2 Information on other hazards:

Endocrine disrupting properties

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

** Changes with regards to the previous version


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SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)
Other information

Non-applicable

*** Changes with regards to the previous version*
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
Phenol, methylstyrenated CAS: 68512-30-1 EC: 270-966-8	LC50 >10 - 100 mg/L (96 h)		Fish
	EC50 >10 - 100 mg/L (48 h)		Crustacean
	EC50 >10 - 100 mg/L (72 h)		Algae
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	LC50 230 mg/L (96 h)	Pimephales promelas	Fish
	EC50 717 mg/L (48 h)	Daphnia magna	Crustacean
	EC50 3300 mg/L (48 h)	Scenedesmus subspicatus	Algae
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled CAS: 8007-24-7 EC: 700-991-6	LC50 >10 - 100 mg/L (96 h)		Fish
	EC50 >10 - 100 mg/L (48 h)		Crustacean
	EC50 >10 - 100 mg/L (72 h)		Algae

Chronic toxicity:

Identification	Concentration	Species	Genus
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	NOEC 9,65 mg/L	Pimephales promelas	Fish
	NOEC 2,4 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:
Substance-specific information:

Identification	Degradability		Biodegradability	
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	BOD5	1,36 g O2/g	Concentration	100 mg/L
	COD	1,69 g O2/g	Period	14 days
	BOD5/COD	0,8	% Biodegradable	83 %
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled CAS: 8007-24-7 EC: 700-991-6	BOD5	Non-applicable	Concentration	19.2 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	96 %

12.3 Bioaccumulative potential:
Substance-specific information:

Identification	Bioaccumulation potential	
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	BCF	30
	Pow Log	0.73
	Potential	Moderate
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled CAS: 8007-24-7 EC: 700-991-6	BCF	882
	Pow Log	6.2
	Potential	High

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Ethyl acetate CAS: 141-78-6 EC: 205-500-4	Koc	59	Henry	13,58 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	2,324E-2 N/m (25 °C)	Moist soil	Yes

*** Changes with regards to the previous version*

- CONTINUED ON NEXT PAGE -



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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

Identification	Absorption/desorption		Volatility	
Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled CAS: 8007-24-7 EC: 700-991-6	Koc	122.51	Henry	OE+0 Pa·m ³ /mol
	Conclusion	Moderate	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	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.

12.7 Other adverse effects:

Not described

*** Changes with regards to the previous version*

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

This product is not regulated for transport (ADR/RID,IMDG,IATA)

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):

*** Changes with regards to the previous version*

- CONTINUED ON NEXT PAGE -

**ASOWOOD Comp.A
1473A****SECTION 15: REGULATORY INFORMATION ** (continued)**

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

15.2 Chemical safety assessment:

The provider has carried out a chemical safety assessment

*** Changes with regards to the previous version*

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.:

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

- New declared substances
 - Bis-[4-(2,3-epoxipropoxy)phenyl]propane (1675-54-3)
 - Cashew (Anacardium occidentale) Nutshell Extract, Decarboxylated, Distilled (8007-24-7)
- Removed substances
 - reaction product: bisphenol-A-(epichlorhydrin) (MW < 700) (25068-38-6)
 - 4-nonylphenol, branched (84852-15-3)

Substances that contribute to the classification (SECTION 2):

- Removed substances
 - reaction product: bisphenol-A-(epichlorhydrin) (MW < 700) (25068-38-6)
 - Phenol, methylstyrenated (68512-30-1)

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

- Hazard statements
- Precautionary statements

Annex: Safe use

Information on basic physical and chemical properties (SECTION 9):

- Flash Point

REGULATORY INFORMATION (SECTION 15):

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

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:

*** Changes with regards to the previous version*

- CONTINUED ON NEXT PAGE -

**ASWOOD Comp.A
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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.
Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
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.
STOT SE 3: H336 - May cause drowsiness or dizziness.

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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ANNEX: SAFE USE **

INFORMATION FOR SAFE USE

This shows the relevant exhibition scenarios relating to the substances that make up the mixture.

End use sector: PROFESSIONAL

Process category:

PROC10: application with rollers or brushes.

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

Cashew nut 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 that results in inclusion in a matrix or application to a matrix

ERC08f: extensive external dispersive use resulting in inclusion in a matrix or application to a matrix

Process categories:

PROC10: application with rollers or brushes.

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

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

Contribution scenario controlling environmental exposure for ERC8c

Characteristics of the Product of use:	The starting materials resins and epoxy hardeners contain < 1% CNSL free.
Quantities used	Annual tonnage used of free CNSL = up to 50 tons Daily amount of free CNSL used up to 167 kg/day
Other operating conditions affecting environmental exposure	Fraction of tonnage released into air by the process: 0 Fraction of tonnage released into wastewater by process: 0.001 Fraction of tonnage released into surface water by the process: 0 Fraction of tonnage released into industrial soil by process: 0.005 Fraction of tonnage released in agricultural land : 0 Fraction of the main local source: 0.002
On-site technical conditions and measures to reduce or limit discharges, emissions to air and emissions to 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 the release from the site	All waste awaiting collection by the authorised contractor for disposal shall be stored in a sealed closed system. The site 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 treatment plant was considered for both local fresh water and marine assessment (e.g. wastewater does not exclude a waste purification system . Size of municipal wastewater treatment plant: 2000 m3/day Receiving water flow: 18000 m3/day Frequency and duration 365 days/year Dilution factor (fresh water) = 10 Dilution factor (marine waters)= 100 Fraction of degraded emissions in wastewater treatment plant = 93.2% No on-site wastewater treatment was considered, which would reduce the concentration of free CNSL in a municipal wastewater treatment plant and reduce the expected environmental concentration in the water.
Conditions and measures relating to 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	Where risk management measures and recommended operating conditions are met, exposures are not expected to exceed predicted no-effect concentrations and therefore risk characterisation ratios are not expected to be below 1.
Evaluation method	To obtain estimates reflecting the conditions of use of Cashew Nut Shell Liquid (CNSL), the default

** Changes with regards to the previous version

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ANNEX: SAFE USE ** (continued)	
	release values of Tables A- & B (EC 20031) and the ERC description in the ECHA directives on chemical safety elevation and assessment requirements, chapter R.16: estimation of environmental exposure, were considered. In this case the exposure estimation was made considering predefined hypotheses implemented in the exhibition model EU2S V2.12
Contributor scenario controlling environmental exposure for ERC8f	
Characteristics of the Product of use:	starting materials epoxy resins and hardeners contain < 1% CNSL free
Quantities used	Annual tonnage used of free CNSL = up to 50 tons Daily amount of free CNSL used = up to 167 kg/day
Other operating conditions affecting environmental exposure	Fraction of tonnage released into the air by the process: 0 Fraction of tonnage released into wastewater by process: 0.001 Fraction of tonnage released into surface water by the process: 0 Fraction of tonnage released into industrial soil by process: 0.005 Fraction of tonnage released in agricultural land : 0 Fraction of the main local source: 0.002
On-site technical conditions and measures to reduce or limit discharges, emissions to air and emissions to 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 the release from the site	All waste awaiting collection by the authorised contractor for disposal shall be stored in a sealed closed system. The site 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 treatment plant was considered for both local fresh water and marine assessment (e.g. wastewater does not exclude a waste purification system. Size of municipal wastewater treatment plant: 2000 m3/day Receiving water flow: 18000 m3/day Dilution factor (fresh water) = 10 Dilution factor (marine waters)= 100 Fraction of degraded emissions in wastewater treatment plant = 93.2% No on-site wastewater treatment was considered, which would reduce the concentration of free CNSL in a municipal wastewater treatment plant and reduce the expected environmental concentration in the water.
Conditions and measures relating to 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	Where risk management measures and recommended operating conditions are met, exposures are not expected to exceed expected concentrations without effect and therefore risk characterisation ratios are not expected to be below 1
Evaluation method	To obtain estimates reflecting the conditions of use of Cashew Nut Shell Liquid (CNSL), the default release values of Tables A- & B (EC 20031) and the ERC description in the ECHA directives on chemical safety elevation and assessment requirements, chapter R.16: estimation of environmental exposure, were considered. In this case the exposure estimation was made considering predefined hypotheses implemented in the exhibition model EU2S V2.12
Contributory scenario controlling worker exposure to PROC10	
Use descriptors covered	Application with rollers or brushes
Area of use	Professional (SU22)
Concentration of the substance	The resins contain < 1 % free CNSL.
Physical form of the substance	Liquid
Quantities used:	up to 50 tons of free CNSL per year
Temperature of use	Up to 70°C
Duration and frequency of application	8 hours a day, 5 days/week
Human factors not affected by risk management	Not applicable.
Other operating conditions affecting insider exposure	Indoor use
Technical conditions and precautions	Indoor: Exhaust air ventilation system (LEV) in the processing areas. Delimit the area where possible. Avoid contact with treated surfaces. Wear hand protection (EN374 standard minimum), eye protection (EN166 standard minimum). Wear the infera mask respirator at least EN140. Wear perfective clothing (EN368 standard as a minimum in combination with adequate training for the management of personal protective equipment. Duration > 4 hours. Organizational measures to

** Changes with regards to the previous version

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ANNEX: SAFE USE ** (continued)

	avoid/limit spills, dispersion and exposure Adopt an adequate standard of cleanliness at work
Risk management measures	Clean spills immediately. Store wastewater and drains in a sealed system for subsequent disposal by an authorized operator or recycling/reuse. Wear hand protection (EN374 standard minimum), eye protection (EN166 standard minimum). Typical duration 15 – 60 minutes
Estimation of exposure and reference to its source	Based on known operating conditions and taking into account risk management measures, the projected exposures are not expected to exceed the expected derived limits without effect and the resulting risk characterisation levels are below 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's Guide (DU) to assess whether it operates within the limits set by the ES

Health and environment	No information.
------------------------	-----------------

Methyl phenol styrenate

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 that results in inclusion in a matrix or application to a matrix

ERC08f: extensive external dispersive use resulting in inclusion in a matrix or application to a matrix

Process categories:

PROC10: application with rollers or brushes.

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

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

Contribution scenario controlling environmental exposure for ERC8c

Characteristics of the Product of use:	The substance is a UVCB complex, non-biodegradable
Frequency and duration	365 days/year, continuous release
Quantities used	Used EU tonnage 3.00E+2 Fraction of EU tonnage used in region 1.00E-1 Usage tonnage by 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 amount of free CNSL used = up to 167 kg/day Flow of receiving surface water (m3/d) 18000
Other operating conditions affecting environmental exposure	Indoor use
On-site technical conditions and measures to reduce or limit discharges, emissions to air and emissions to soil:	Process fraction in air (before RMM) 0 Fraction released into wastewater from the process (before RMM) 1.00 Fraction released into the soil by process (before RMM) 1.00E-4
Organizational measures to prevent or limit the release from the site	Do not distribute the sludge generated by industrial water treatment on natural soils. prevent or limit the release from the site
Conditions and measures relating to the municipal wastewater treatment plant	Total effectiveness of wastewater removal after on-site and offsite (urban treatment plant) RMM (%) Estimated substance removal from wastewater with urban treatment plant 8.90E+1 Total effectiveness of wastewater removal 8.9E+1 Maximum permissible tonnage for site (Msafe) based on release after urban wastewater treatment (kg/d) 4.36E+1 Assumed flow rate urban wastewater treatment plant (m3/d) 0
Conditions and measures relating to	External waste treatment and disposal must comply with local and/or national regulations

** Changes with regards to the previous version

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ANNEX: SAFE USE ** (continued)

external treatment of waste for disposal																									
Estimation of environmental exposure	<table style="width: 100%; border-collapse: collapse;"> <tr><td>Regional PEC in surface water (total) mg/l</td><td style="text-align: right;">1.48E-4</td></tr> <tr><td>Regional RCR water / fresh water</td><td style="text-align: right;">8.25E-3</td></tr> <tr><td>Regional PEC in seawater (total) mg/l</td><td style="text-align: right;">2.05E-5</td></tr> <tr><td>Regional RCR water part / sea water</td><td style="text-align: right;">1.31E-2</td></tr> <tr><td>Regional JEP in soil mg/kg dwt</td><td style="text-align: right;">2.72E-2</td></tr> <tr><td>Regional RCR in terrain</td><td style="text-align: right;">2.09E-1</td></tr> <tr><td>Regional PEC in freshwater sediments (total) mg/kg dwt</td><td style="text-align: right;">3.66E+0</td></tr> <tr><td>Regional RCR in freshwater sediments</td><td style="text-align: right;">6.92E-2</td></tr> <tr><td>Regional PEC in seawater sediments (total) mg/kg dwt</td><td style="text-align: right;">5.78E-1</td></tr> <tr><td>Regional RCR in Seawater Sediments</td><td style="text-align: right;">1.09E-1</td></tr> <tr><td>PEC for microorganisms in STP</td><td style="text-align: right;">1.96E-4</td></tr> <tr><td>RCR wastewater treatment plant</td><td style="text-align: right;">8.17E-5</td></tr> </table>	Regional PEC in surface water (total) mg/l	1.48E-4	Regional RCR water / fresh water	8.25E-3	Regional PEC in seawater (total) mg/l	2.05E-5	Regional RCR water part / sea water	1.31E-2	Regional JEP in soil mg/kg dwt	2.72E-2	Regional RCR in terrain	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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RCR wastewater treatment plant	8.17E-5																								
Evaluation method	ECETOC TRA v2 in advanced mode with ERC APPROACH.																								

Contribution scenario controlling environmental exposure for ERC8f

Characteristics of the Product of use:	The substance is a UVCB complex, not biodegradable.																								
Frequency and duration	365 days/year, continuous release																								
Quantities used	Used EU tonnage 3.00E+2 Fraction of EU tonnage used in region 1.00E-1 Use tonnage by 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 amount of free CNSL used = up to 167 kg/day																								
Environmental factors not affected by risk management	Local dilution factor in fresh water 1.00E+1 Local dilution factor in seawater 1.00E+2 Flow of receiving surface water (m3/d) 18000																								
Other operating conditions affecting environmental exposure	Indoor use. Process fraction in air (before RMM) 0 Fraction released into wastewater from the process (before RMM) 1.00 Fraction released into the soil by the process (before RMM) 1.00E-4																								
Organizational measures to prevent or limit the release from the site	Do not distribute sludge generated by industrial water treatment on natural soils																								
Conditions and measures relating to the municipal wastewater treatment plant	Total effectiveness of wastewater removal after on-site and offsite RMM (urban treatment plant) RMM(%) Estimated substance removal from wastewater with urban treatment plant 8.90E+1 Total effectiveness of wastewater removal 8.9E+1 Maximum permissible tonnage for site (Msafe) based on discharge following urban wastewater treatment (kg/d) 4.36E+1 Assumed flow rate urban wastewater treatment plant (m3/d) 0																								
Conditions and measures relating to external treatment of waste for disposal	External treatment and disposal of waste must comply with local and/or national regulations.																								
Estimation of environmental exposure	<table style="width: 100%; border-collapse: collapse;"> <tr><td>Regional PEC in surface water (total) mg/l</td><td style="text-align: right;">1.48E-4</td></tr> <tr><td>Regional RCR water / fresh water</td><td style="text-align: right;">8.25E-3</td></tr> <tr><td>Regional PEC in seawater (total) mg/l</td><td style="text-align: right;">2.05E-5</td></tr> <tr><td>Regional RCR water part / sea water</td><td style="text-align: right;">1.31E-2</td></tr> <tr><td>Regional JEP in soil mg/kg dwt</td><td style="text-align: right;">2.72E-2</td></tr> <tr><td>Regional RCR in terrain</td><td style="text-align: right;">2.09E-1</td></tr> <tr><td>Regional PEC in freshwater sediments (total) mg/kg dwt</td><td style="text-align: right;">3.66E+0</td></tr> <tr><td>Regional RCR in freshwater sediments</td><td style="text-align: right;">6.92E-2</td></tr> <tr><td>Regional PEC in seawater sediments (tot) mg/kg dwt</td><td style="text-align: right;">5.78E-1</td></tr> <tr><td>Regional RCR in Seawater Sediments</td><td style="text-align: right;">1.09E-1</td></tr> <tr><td>PEC for microorganisms in STP</td><td style="text-align: right;">1.96E-4</td></tr> <tr><td>RCR wastewater treatment plant</td><td style="text-align: right;">8.17E-5</td></tr> </table>	Regional PEC in surface water (total) mg/l	1.48E-4	Regional RCR water / fresh water	8.25E-3	Regional PEC in seawater (total) mg/l	2.05E-5	Regional RCR water part / sea water	1.31E-2	Regional JEP in soil mg/kg dwt	2.72E-2	Regional RCR in terrain	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 (tot) 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																								
Evaluation method	ECETOC TRA v2 in advanced mode with ERC APPROACH																								

Contributory scenario controlling worker exposure to PROC10

Use descriptors covered	Application with rollers or brushes
Area of use	Professional (SU22)

** Changes with regards to the previous version

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ANNEX: SAFE USE ** (continued)	
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 of application	8 hours per day, =<240 days/year
Human factors not affected by risk management	Not applicable.
Other operating conditions affecting insider exposure	Outdoor
Technical conditions and precautions	Wear appropriate gloves (EN374 tested) and eye protection, appropriate training
Organizational measures to avoid/limit spills, dispersion and exposure	Avoid frequent and direct contact with the substance. Minimize manual steps. Regular cleaning of equipment and work area. On-site monitoring to verify that the RMMs 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 – skin: 1.37 mg/kg/day // RCR 0.08 Combined RCR 0.10
Evaluation method	Advanced Reach Tool (ART)

Contributory scenario controlling worker exposure for PROC19

Use descriptors covered	Manual mixing with direct contact, with only the use of personal protective equipment
Area of use	Professional (SU22)
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 of application	8 hours per day, =<240 days/year
Human factors not affected by risk management	Not applicable.
Other operating conditions affecting insider exposure	Outdoor
Technical conditions and precautions	Wear appropriate gloves (EN374 tested) and eye protection, appropriate training
Organizational measures to avoid/limit spills, dispersion and exposure	Avoid frequent and direct contact with the substance. Minimize manual steps. Regular cleaning of equipment and work area. On-site monitoring to verify that the RMMs 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 – skin: 7.07 mg/kg/day // RCR 0.43 Combined RCR 0.43
Evaluation method	Advanced Reach Tool (ART)

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

Health and environment	Expected exposures are not expected to exceed DNELs if the risk management measures and operating conditions described are implemented. Where different measures are taken to manage Risks/operating conditions Users are required to ensure that risks are managed at least anequivalent level.
Environment	The required wastewater removal efficiency can be achieved by using onsite/offsite technologies individually or in combination.

Ethyl acetate

1 - Abbreviated title of the exhibition scenario: Professional application for paints, coatings, adhesives and miscellaneous mixtures/products containing ethyl acetate.

List of usage descriptors:

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

** Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -



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ANNEX: SAFE USE ** (continued)

Environmental release category:
 ERC08a: extensive internal dispersive use of processing aids in open systems.

Process categories:
 PROC10: application with rollers or brushes.
 PROC19: Manual mixing with direct contact, with only the use of personal protective equipment

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

Contribution scenario controlling environmental exposure for ERC8a

Use:	internal
Quantities used	Not applicable.
Frequency and duration of use:	Not applicable.
Risk management measures for environmental protection	Not applicable.
Conditions and measures relating to municipal clarification installations	Not applicable.
Conditions and measures relating to processing of waste	Dispose of waste in bags or containers in accordance with local law.
Other conditions affecting environmental exposure	Not applicable.
Release rates	Water: 0.014 Air: 0.666 Soil: 0 (estimation method: ESVOC 4)
Estimation of environmental exposure	Environmental freshwater Estimated exposure: 4.036E-4 mg/l RCR:<0.01 Freshwater sediment Estimated exposure: 0.002 mg/kg dw RCR: <0.01 Marine waters Estimated exposure: 6.015E-5 mg/l RCR: <0.01 Seawater sediment Estimated exposure: 3.587E-4 mg/kg dw RCR: <0.01 Marine water food chain (predators) Exposure estimate: 5,132E-4 mg/kg ww RCR: <0.01 Marine water food chain (super-predators) Exposure estimate: 7,928E-5 mg/kg ww RCR: <0.01 Effluent Estimated exposure: 8.041E-4 mg/l RCR: <0.01 Agricultural land Estimated exposure: 1,292E-4 mg/kg dw RCR: <0.01 Land food chain (predator) Estimated exposure: 1.13E-4 mg/kg ww RCR: <0.01 Man, through environment Estimated exposure (inhal) 4.8E-4 mg/m3 – RCR: <0.01
Assessment tools	EUSES 2.1.2

Contributory scenario controlling worker exposure to PROC10

Use descriptors covered	Roller or brush application
Area of use	Professional (SU22)
Concentration of the substance	Up to 100%
Temperature of use	Up to 40°C
Duration and frequency of application	8 hours a day, daily exposure
Risk management measures	External use: Wear a respirator with minimum filtering efficiency as per sec. 8 of the safety data sheet.
Estimation of exposure and reference to its source	Inhalation exposure - internal – long-term, systemic: 51.39 mg/m3 RCR: 0.07 Dermal exposure - internal - long-term, systemic: 27.43 mg/kg bw/d RCR: 0.435 Combined routes – internal- RCR 0.505 Inhalation exposure – internal - short term, systemic: 205.6 mg/m3 RCR: 0.14 Dermal - internal - short-term exposure, systemic: Not applicable. Combined routes – internal- RCR 0.14 Inhaled exposure – internal – local – short-term: 205.6 mg/m3 RCR 0.14 Inhaled exposure – internal – local – long-term 51.39 mg/m3 RCR 0.07
Evaluation method	TRA – extended / Workers

** Changes with regards to the previous version



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ANNEX: SAFE USE ** (continued)

Contributory scenario controlling worker exposure for PROC19

Use descriptors covered	Manual mixing with direct contact, with only the use of personal protective equipment
Area of use	Professional (SU22)
Concentration of the substance	Up to 25% substance
Temperature of use	Up to 40°C
Duration and frequency of application	8 hours a day, daily exposure application
Management measures	Indoor use: provide a good standard of controlled ventilation (5 to 10 changes of air/hour).
Estimation of exposure and reference to its source	Inhalation exposure - internal - long-term, systemic: 66.08 mg/m ³ RCR: 0.09 Dermal exposure - internal - long-term, systemic: 16.97 mg/kg bw/d RCR: 0.269 Combined routes – internal- RCR 0.359 Inhalation exposure – internal - short term, systemic: 264.3 mg/m ³ RCR: 0.18 Dermal - internal - short-term exposure, systemic: Not applicable. Inhaled exposure – internal – local – short-term: 264.3 mg/m ³ RCR 0.18 Inhaled exposure – internal – local – long-term 66.08 mg/m ³ RCR 0.09
Evaluation method	TRA – extended / Workers

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

Health and environment	Health and environment The assigned use descriptors based on ECHA R-12 guidance represent the current understanding of the uses of the product. We recommend that you carefully assess whether the exposure scenarios listed reflect your use of the product. Different uses may be covered in the same exposure scenario if the same operating conditions and risk management measures apply to all those uses. In addition, different types of activities may be expressed from a worker exposure category and from an environmental exposure category. ECHA's "Downstream User Guide" provides details on how to decide whether or not use is covered by these exposure scenarios and what to do if it fails.
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*** Changes with regards to the previous version*

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 -