11AA5353 - WAX GREASE SHIELD - AEROSOL 500ml - BLACK

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

1.1 Product identifier: 11AA5353 - WAX GREASE SHIELD - AEROSOL 500ml - BLACK

Other means of identification:

UFI: 11AA5353

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant uses: Paints and varnishes. For professional users/industrial user only.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

SERWIS KOP Sp. z o.o. Sp.k.
35-082 Rzeszów, ul. Podkarpacka 57A
Phone/FAX: +48 17 864 31 00
adrian@serwis-kop.pl

1.4 Emergency telephone number: 112

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.

Acute Tox. 4: Acute toxicity, Category 4, H312+H332

Asp. Tox. 1: Aspiration hazard, Category 1, H304

Eye Irrit. 2: Eye irritation, Category 2, H319

Flam. Liq. 3: Flammable liquids, Category 3, H226

Skin Irrit. 2: Skin irritation, Category 2, H315

STOT RE 2: Specific target organ toxicity — Repeated exposure, Hazard Category 2, H373

STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Danger



Hazard statements:

Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled.

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

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

Flam. Liq. 3: H226 - Flammable liquid and vapour.

Skin Irrit. 2: H315 - Causes skin irritation.

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.

STOT SE 3: H335 - May cause respiratory irritation.

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

P241: Use explosion-proof equipment.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.

P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

Supplementary information:

EUH208: Contains 4-morpholinecarbaldehyde. May produce an allergic reaction.

Substances that contribute to the classification:

Reaction mass of ethylbenzene and xylene; m-xylene (CAS: 108-38-3); Ethylbenzene (CAS: 100-41-4); p-xylene (CAS: 106-42-3).

*** Changes with regards to the previous version*

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SECTION 2: HAZARDS IDENTIFICATION ** (continued)

Acute Toxicity Estimate (ATE mix):

42,33 % (oral), 45,33 % (dermal), 52,33 % (inhalation) of the mixture consists of ingredient(s) of unknown toxicity

UFI: 11AA5353

2.3 Other hazards:

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, aggregates, pigments and resins in solvents.

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

Identification	Chemical name/Classification			Concentration
CAS: Non-applicable EC: 905-588-0 Index:Non-applicable REACH: 01-2119539452-40-XXXX	**Reaction mass of ethylbenzene and xylene(1)**		Self-classified	**25 - <50%**
	Regulation 1272/2008	Acute Tox. 4: H312+H332; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335 - Danger		
CAS: 108-38-3 EC: 203-576-3 Index: 601-022-00-9 REACH: 01-2119484621-37-XXXX	**m-xylene(1)**		ATP CLP00	**2,5 -<10%**
	Regulation 1272/2008	Acute Tox. 4: H312+H332; Flam. Liq. 3: H226; Skin Irrit. 2: H315 - Warning		
CAS: 100-41-4 EC: 202-849-4 Index: 601-023-00-4 REACH: 01-2119489370-35-XXXX	**Ethylbenzene(1)**		ATP ATP06	**2,5 -<10%**
	Regulation 1272/2008	Acute Tox. 4: H332; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT RE 2: H373 - Danger		
CAS: 106-42-3 EC:203-396-5 Index: 601-022-00-9 Reach: 01-2119484661-33-XXXX	**p-xylene(1)**		ATP CLP00	**2,5 -<10%**
	Regulation 1272/2008	Acute Tox. 4: H312+H332; Flam. Liq. 3: H226; Skin Irrit. 2: H315 - Warning		
CAS: 71-36-3 EC:200-751-6 Index: 603-004-00-6 REACH: 01-2119484630-38-XXXX	**butan-1-ol(1)**		Self-classified	**2,5 -<10%**
	Regulation 1272/2008	Acute Tox. 4: H302; Eye Dam. 1: H318; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT SE 3: H335; STOT SE 3: H336 - Danger		
CAS: 95-47-6 EC: 202-422-2 Index: 601-022-00-9 REACH: 01-2119485822-30-XXXX	**o-xylene(1)**		ATP CLP00	**1 - <2,5%**
	Regulation 1272/2008	Acute Tox. 4: H312+H332; Flam. Liq. 3: H226; Skin Irrit. 2: H315 - Warning		
CAS: 4394-85-8 EC: 224-518-3 Index: Non-applicable REACH: 01-2119987993-12-XXXX	**4-morpholinecarbaldehyde(1)**		Self-classified	**<1%**
	Regulation 1272/2008	Skin Sens. 1B: H317 - Warning		
CAS: 1330-20-7 EC: 215-535-7 Index: 601-022-00-9 REACH: 01-2119488216-32-XXXX	**Xylene(2)**		Self-classified	**<1%**
	Regulation 1272/2008	Acute Tox. 4: H312+H332; Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335 - Danger		

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

(2) Substance with a Union workplace exposure limit

*** Changes with regards to the previous version*

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS ** (continued)

Identification	Chemical name/Classification		Concentration
CAS: 108-65-6 EC: 203-603-9 Index: 607-195-00-7 REACH: 01-2119475791-29-XXXX	**2-methoxy-1-methylethyl acetate(2)**	ATP ATP01	**< 1 %**
	Regulation 1272/2008	Flam. Liq. 3: H226 - Warning	
CAS: 100-41-4 EC: 202-849-4 Index: 601-023-00-4 REACH: 01-2119489370-35-XXXX	**Ethylbenzene(2)**	Self-classified	**< 1 %**
	Regulation 1272/2008	Acute Tox. 4: H332; Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Flam. Liq. 2: H225; STOT RE 2: H373 - Danger	
CAS: 123-86-4 EC: 204-658-1 Index: 607-025-00-1 REACH: 01-2119485493-29-XXXX	**N-butyl acetate(2)**	ATP CLP00	**< 1 %**
	Regulation 1272/2008	Flam. Liq. 3: H226; STOT SE 3: H336; EUH066 - Warning	
CAS: 112-34-5 EC: 203-961-6 Index: 603-096-00-8 REACH: 01-2119475104-44-XXXX	**2-(2-butoxyethoxy)ethanol(2)**	ATP CLP00	**< 1 %**
	Regulation 1272/2008	Eye Irrit. 2: H319 - Warning	

(1) Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878.
(2) Substance with a Union workplace exposure limit.

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

Other information:

Identification	Specific concentration limit
Reaction mass of ethylbenzene and xylene CAS: Non-applicable EC: 905-588-0	% (w/w) >=10: STOT RE 2 - H373

*** 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:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such ascardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

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:

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

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.

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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO_2).

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.

6.2 Environmental precautions:

Avoid spillage into the aquatic environment as it contains substances potentially dangerous for this. Contain the product absorbed in hermetically sealed containers. In the case of serious spillage into the aquatic environment notify the relevant authority.

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. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B. Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

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SECTION 7: HANDLING AND STORAGE (continued)

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

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3).

7.2 Conditions for safe storage, including any incompatibilities:

A. Technical measures for storage

Minimum Temp.: 5 ºC

Maximum Temp.: 30 ºC

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):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

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		
Reaction mass of ethylbenzene and xylene CAS: Non-applicable EC: 905-588-0	IOELV (8h) IOELV (STEL)	50 ppm 100 ppm	221 mg/m³ 442 mg/m³
m-xylene CAS: 108-38-3 EC: 203-576-3	IOELV (8h) IOELV (STEL)	50 ppm 100 ppm	221 mg/m³ 442 mg/m³
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	IOELV (8h) IOELV (STEL)	100 ppm 200 ppm	442 mg/m³ 884 mg/m³
p-xylene CAS: 106-42-3 EC: 203-396-5	IOELV (8h) IOELV (STEL)	50 ppm 100 ppm	221 mg/m³ 442 mg/m³
o-xylene CAS: 95-47-6 EC: 202-422-2	IOELV (8h) IOELV (STEL)	50 ppm 100 ppm	221 mg/m³ 442 mg/m³
Xylene CAS: 1330-20-7 EC: 215-535-7	IOELV (8h) IOELV (STEL)	50 ppm 100 ppm	221 mg/m³ 442 mg/m³
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	IOELV (8h) IOELV (STEL)	50 ppm 100 ppm	275 mg/m³ 550 mg/m³
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	IOELV (8h) IOELV (STEL)	100 ppm 200 ppm	442 mg/m³ 884 mg/m³
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	IOELV (8h) IOELV (STEL)	50 ppm 150 ppm	241 mg/m³ 723 mg/m³
2-(2-butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	IOELV (8h) IOELV (STEL)	10 ppm 15 ppm	67,5 mg/m³ 101,2 mg/m³

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Reaction mass of ethylbenzene and xylene CAS: Non-applicable EC: 905-588-0	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	212 mg/kg	Non-applicable
	Inhalation	442 mg/m³	442 mg/m³	221 mg/m³	221 mg/m³
m-xylene CAS: 108-38-3 EC: 203-576-3	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	212 mg/kg	Non-applicable
	Inhalation	442 mg/m³	442 mg/m³	221 mg/m³	221 mg/m³
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	180 mg/kg	Non-applicable
	Inhalation	Non-applicable	293 mg/m³	77 mg/m³	Non-applicable
p-xylene CAS: 106-42-3 EC: 203-396-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	212 mg/kg	Non-applicable
	Inhalation	442 mg/m³	442 mg/m³	221 mg/m³	221 mg/m³

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
butan-1-ol CAS: 71-36-3 EC: 200-751-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	Non-applicable	310 mg/m³
o-xylene CAS: 95-47-6 EC: 202-422-2	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	212 mg/kg	Non-applicable
	Inhalation	442 mg/m³	442 mg/m³	221 mg/m³	221 mg/m³
4-morpholinecarbaldehyde CAS: 4394-85-8 EC: 224-518-3	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	11,7 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	50,3 mg/m³	13,3 mg/m³
Xylene CAS: 1330-20-7 EC: 215-535-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	212 mg/kg	Non-applicable
	Inhalation	442 mg/m³	442 mg/m³	221 mg/m³	221 mg/m³
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	796 mg/kg	Non-applicable
	Inhalation	Non-applicable	550 mg/m³	275 mg/m³	Non-applicable
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	180 mg/kg	Non-applicable
	Inhalation	Non-applicable	293 mg/m³	77 mg/m³	Non-applicable
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	11 mg/kg	Non-applicable	11 mg/kg	Non-applicable
	Inhalation	600 mg/m³	600 mg/m³	300 mg/m³	300 mg/m³
2-(2-butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	83 mg/kg	Non-applicable
	Inhalation	Non-applicable	101,2 mg/m³	67,5 mg/m³	67,5 mg/m³

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Reaction mass of ethylbenzene and xylene CAS: Non-applicable EC: 905-588-0	Oral	Non-applicable	Non-applicable	12,5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	125 mg/kg	Non-applicable
	Inhalation	260 mg/m³	260 mg/m³	65,3 mg/m³	65,3 mg/m³
m-xylene CAS: 108-38-3 EC: 203-576-3	Oral	Non-applicable	Non-applicable	12,5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	125 mg/kg	Non-applicable
	Inhalation	260 mg/m³	260 mg/m³	65,3 mg/m³	65,3 mg/m³
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Oral	Non-applicable	Non-applicable	1,6 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	15 mg/m³	Non-applicable
p-xylene CAS: 106-42-3 EC: 203-396-5	Oral	Non-applicable	Non-applicable	5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	125 mg/kg	Non-applicable
	Inhalation	260 mg/m³	260 mg/m³	65,3 mg/m³	65,3 mg/m³
butan-1-ol CAS: 71-36-3 EC: 200-751-6	Oral	Non-applicable	Non-applicable	1,562 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	3,125 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	55,357 mg/m³	155 mg/m³
o-xylene CAS: 95-47-6 EC: 202-422-2	Oral	Non-applicable	Non-applicable	2,5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	125 mg/kg	Non-applicable
	Inhalation	260 mg/m³	260 mg/m³	65,3 mg/m³	65,3 mg/m³
4-morpholinecarbaldehyde CAS: 4394-85-8 EC: 224-518-3	Oral	Non-applicable	Non-applicable	4,17 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	4,17 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	8,93 mg/m³	13,3 mg/m³
Xylene CAS: 1330-20-7 EC: 215-535-7	Oral	Non-applicable	Non-applicable	12,5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	125 mg/kg	Non-applicable
	Inhalation	260 mg/m³	260 mg/m³	65,3 mg/m³	65,3 mg/m³

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	Oral	Non-applicable	Non-applicable	36 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	320 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	33 mg/m³	33 mg/m³
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Oral	Non-applicable	Non-applicable	1,6 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	15 mg/m³	Non-applicable
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	Oral	2 mg/kg	Non-applicable	2 mg/kg	Non-applicable
	Dermal	6 mg/kg	Non-applicable	6 mg/kg	Non-applicable
	Inhalation	300 mg/m³	300 mg/m³	35,7 mg/m³	35,7 mg/m³
2-(2-butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	Oral	Non-applicable	Non-applicable	5 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	50 mg/kg	Non-applicable
	Inhalation	Non-applicable	60,7 mg/m³	40,5 mg/m³	40,5 mg/m³

PNEC:

Identification				
Reaction mass of ethylbenzene and xylene CAS: Non-applicable EC: 905-588-0	STP	6,58 mg/L	Fresh water	0,327 mg/L
	Soil	2,31 mg/kg	Marine water	0,327 mg/L
	Intermittent	0,327 mg/L	Sediment (Fresh water)	12,46 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	12,46 mg/kg
m-xylene CAS: 108-38-3 EC: 203-576-3	STP	1,6 mg/L	Fresh water	0,044 mg/L
	Soil	0,852 mg/kg	Marine water	0,004 mg/L
	Intermittent	0,01 mg/L	Sediment (Fresh water)	2,52 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,252 mg/kg
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	STP	9,6 mg/L	Fresh water	0,1 mg/L
	Soil	2,68 mg/kg	Marine water	0,01 mg/L
	Intermittent	0,1 mg/L	Sediment (Fresh water)	13,7 mg/kg
	Oral	0,02 g/kg	Sediment (Marine water)	1,37 mg/kg
p-xylene CAS: 106-42-3 EC: 203-396-5	STP	1,6 mg/L	Fresh water	0,044 mg/L
	Soil	0,852 mg/kg	Marine water	0,004 mg/L
	Intermittent	0,01 mg/L	Sediment (Fresh water)	2,52 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,252 mg/kg
butan-1-ol CAS: 71-36-3 EC: 200-751-6	STP	2476 mg/L	Fresh water	0,082 mg/L
	Soil	0,017 mg/kg	Marine water	0,008 mg/L
	Intermittent	2,25 mg/L	Sediment (Fresh water)	0,324 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,032 mg/kg
o-xylene CAS: 95-47-6 EC: 202-422-2	STP	1,6 mg/L	Fresh water	0,009 mg/L
	Soil	0,095 mg/kg	Marine water	0,001 mg/L
	Intermittent	0,001 mg/L	Sediment (Fresh water)	0,5 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,05 mg/kg
4-morpholinecarbaldehyde CAS: 4394-85-8 EC: 224-518-3	STP	2000 mg/L	Fresh water	0,5 mg/L
	Soil	0,244 mg/kg	Marine water	0,05 mg/L
	Intermittent	5 mg/L	Sediment (Fresh water)	2,69 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,269 mg/kg
Xylene CAS: 1330-20-7 EC: 215-535-7	STP	6,58 mg/L	Fresh water	0,327 mg/L
	Soil	2,31 mg/kg	Marine water	0,327 mg/L
	Intermittent	0,327 mg/L	Sediment (Fresh water)	12,46 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	12,46 mg/kg
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	STP	100 mg/L	Fresh water	0,635 mg/L
	Soil	0,29 mg/kg	Marine water	0,064 mg/L
	Intermittent	6,35 mg/L	Sediment (Fresh water)	3,29 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,329 mg/kg
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	STP	9,6 mg/L	Fresh water	0,1 mg/L
	Soil	2,68 mg/kg	Marine water	0,01 mg/L
	Intermittent	0,1 mg/L	Sediment (Fresh water)	13,7 mg/kg
	Oral	0,02 g/kg	Sediment (Marine water)	1,37 mg/kg

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	STP	35,6 mg/L	Fresh water	0,18 mg/L
	Soil	0,09 mg/kg	Marine water	0,018 mg/L
	Intermittent	0,36 mg/L	Sediment (Fresh water)	0,981 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,098 mg/kg
2-(2-butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	STP	200 mg/L	Fresh water	1,1 mg/L
	Soil	0,32 mg/kg	Marine water	0,11 mg/L
	Intermittent	11 mg/L	Sediment (Fresh water)	4,4 mg/kg
	Oral	0,056 g/kg	Sediment (Marine water)	0,44 mg/kg

8.2 Exposure controls:

A. Individual protection measures, such as personal protective equipment

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have CE marking in accordance with Directive 2016/425/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,…) consult the information leaflet provided by the manufacturer. For additional 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, vapours and particles	CE CAT III	EN 149:2001+A1:2009 EN 405:2002+A1:2010 EN ISO 136:1998	Replace when an increase in resistence to breathing is observed and/or a smell or taste of the contaminant is detected.

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)	CE CAT III	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	Face shield	CE CAT II	EN 166:2002 EN 167:2002 EN 168:2002 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
 Mandatory face protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties	CE CAT III	EN 1149-1,2,3 EN13034:2005+A1:2009 EN ISO 13982- 1:2004 A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	For professional use only. Clean periodically according to the manufacturer´s instructions.
 Mandatory face protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties	CE CAT III	EN ISO 13287:2020 EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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):	45 % weight
V.O.C. density at 20 ºC:	500 kg/m³ (500 g/L)
Average carbon number:	7,76
Average molecular weight:	104,36 g/mol

With regard to Directive 2004/42/EC, this product which is ready to use has the following characteristics:

V.O.C. density at 20 ºC:	500 kg/m³ (500 g/L)
EU limit for the product (Cat. A.I):	500 g/L (2010)
Components:	Non-applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 ºC:	Liquid
Appearance:	Fluid
Colour:	According to the markings on the package
Odour:	Characteristic
Odour threshold:	Non-applicable *

Volatility:

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

Boiling point at atmospheric pressure:	≤118 - 1355 ºC
Vapour pressure at 20 ºC:	728 Pa
Evaporation rate at 20 ºC:	Non-applicable *

Product description:

Density at 20 ºC:	950 - 1050 kg/m³
Relative density at 20 ºC:	0,95 - 1,05
Dynamic viscosity at 20 ºC:	Non-applicable *
Kinematic viscosity at 20 ºC:	Non-applicable *
Kinematic viscosity at 40 ºC:	<20,5 mm²/s
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 ºC:	Non-applicable *
Partition coefficient n-octanol/water 20 ºC:	Non-applicable *
Solubility in water at 20 ºC:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *

Flammability:

Flash Point:	>23 ºC

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Flash Point:	>23 ºC
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	204 ºC
Lower flammability limit:	Not available
Upper flammability limit:	Not available
Particle characteristics:	
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 ºC:	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	Risk of combustion	Avoid direct impact	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 (CO_2), 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 Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effect that are hazardous to the health.

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.

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SECTION 11: TOXICOLOGICAL INFORMATION **

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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 : Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

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: Fatty acids, C6-19-branched, cobalt(2+) salts (2B); Naphtha (petroleum), hydrotreated heavy, < 0.1 % EC 200-753-7 (3); Ethylbenzene (2B); m-xylene (3); p-xylene (3); o-xylene (3); naphtha (petroleum), hydrodesulphurized heavy , < 0.1 % EC 200-753-7 (3); Xylene (3); Ethylbenzene (2B); Reaction mass of ethylbenzene and xylene (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: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.

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

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

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

- Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- 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:

The consumption of a considerable dose can cause pulmonary damage.

Other information:

Non-applicable.

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SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	LD50 oral LD50 dermal LC50 inhalation	3500 mg/kg 15354 mg/kg 17,2 mg/L (4 h)	Rat Rabbit Rat
m-xylene CAS: 108-38-3 EC: 203-576-3	LD50 oral LD50 dermal LC50 inhalation	1590 mg/kg 1100 mg/kg (ATEi) 11 mg/L (ATEi)	Mouse
p-xylene CAS: 106-42-3 EC: 203-396-5	LD50 oral LD50 dermal LC50 inhalation	1590 mg/kg 1100 mg/kg (ATEi) 11 mg/L (ATEi)	Mouse
o-xylene CAS: 95-47-6 EC: 202-422-2	LD50 oral LD50 dermal LC50 inhalation	1590 mg/kg 1100 mg/kg (ATEi) 11 mg/L (ATEi)	Mouse
butan-1-ol CAS: 71-36-3 EC: 200-751-6	LD50 oral LD50 dermal LC50 inhalation	500 mg/kg (ATEi) 3400 mg/kg 24,66 mg/L (4 h)	 Rabbit Rat
Reaction mass of ethylbenzene and xylene CAS: Non-applicable EC: 905-588-0	LD50 oral LD50 dermal LC50 inhalation	2100 mg/kg 1100 mg/kg 11 mg/L (4 h)	Rat Rat Rat
4-morpholinecarbaldehyde CAS: 4394-85-8 EC: 224-518-3	LD50 oral LD50 dermal LC50 inhalation	7475 mg/kg 18400 mg/kg Non-applicable	Rat Rabbit
Xylene CAS: 1330-20-7 EC: 215-535-7	LD50 oral LD50 dermal LC50 inhalation	2100 mg/kg 1100 mg/kg Non-applicable	Rat Rat
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	LD50 oral LD50 dermal LC50 inhalation	8532 mg/kg 5100 mg/kg 30 mg/L (4 h)	Rat Rat Rat
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	LD50 oral LD50 dermal LC50 inhalation	3500 mg/kg 15354 mg/kg 17,2 mg/L (4 h)	Rat Rabbit Rat
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	LD50 oral LD50 dermal LC50 inhalation	12789 mg/kg 14112 mg/kg 23,4 mg/L (4 h)	Rat Rabbit Rat

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	4425,95 mg/kg (Calculation method)	42,33 %
Dermal	1517,42 mg/kg (Calculation method)	45,33 %
Inhalation	12,38 mg/L (4 h) (Calculation method)	52,33 %

11.2 Information on other hazards:

Endocrine disrupting properties

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

Other information

Non-applicable

*** Changeswith regards to the previous version*

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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
m-xylene	LC50	16 mg/L (96 h)	Carassius auratus	Fish
CAS: 108-38-3	EC50	9,56 mg/L (48 h)	Daphnia magna	Crustacean
EC: 203-576-3	EC50	Non-applicable		
Ethylbenzene	LC50	42,3 mg/L (96 h)	Pimephales promelas	Fish
CAS: 100-41-4	EC50	75 mg/L (48 h)	Daphnia magna	Crustacean
EC: 202-849-4	EC50	63 mg/L (3 h)	Chlorella vulgaris	Algae
p-xylene	LC50	2,6 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 106-42-3	EC50	8,5 mg/L (48 h)	Daphnia magna	Crustacean
EC: 203-396-5	EC50	Non-applicable		
butan-1-ol	LC50	1740 mg/L (96 h)	Pimephales promelas	Fish
CAS: 71-36-3	EC50	1983 mg/L (48 h)	Daphnia magna	Crustacean
EC: 200-751-6	EC50	500 mg/L (96 h)	Scenedesmus subspicatus	Algae
o-xylene	LC50	16,1 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 95-47-6	EC50	1,39 mg/L (48 h)	Daphnia magna	Crustacean
EC: 202-422-2	EC50	Non-applicable		
4-morpholinecarbaldehyde	LC50	500 mg/L (96 h)	Leuciscus idus	Fish
CAS: 4394-85-8	EC50	Non-applicable		
EC: 224-518-3	EC50	23880 mg/L (72 h)	Desmodesmus subspicatus	Algae
Xylene	LC50	>10 - 100 mg/L (96 h)		Fish
CAS: 1330-20-7	EC50	>10 - 100 mg/L (48 h)		Crustacean
EC: 215-535-7	EC50	>10 - 100 mg/L (72 h)		Algae
2-methoxy-1-methylethyl acetate	LC50	161 mg/L (96 h)	Pimephales promelas	Fish
CAS: 108-65-6	EC50	481 mg/L (48 h)	Daphnia sp.	Crustacean
EC: 203-603-9	EC50	Non-applicable		
Ethylbenzene	LC50	42,3 mg/L (96 h)	Pimephales promelas	Fish
CAS: 100-41-4	EC50	75 mg/L (48 h)	Daphnia magna	Crustacean
EC: 202-849-4	EC50	63 mg/L (3 h)	Chlorella vulgaris	Algae
N-butyl acetate	LC50	Non-applicable		
CAS: 123-86-4	EC50	Non-applicable		
EC: 204-658-1	EC50	675 mg/L (72 h)	Scenedesmus subspicatus	Algae
2-(2-butoxyethoxy)ethanol	LC50	1300 mg/L (96 h)	Lepomis macrochirus	Fish
CAS: 112-34-5	EC50	2850 mg/L (24 h)	Daphnia magna	Crustacean
EC: 203-961-6	EC50	53 mg/L (192 h)	Microcystis aeruginosa	Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
Reaction mass of ethylbenzene and xylene	NOEC	1,3 mg/L	Oncorhynchus mykiss	Fish
CAS: Non-applicable EC: 905-588-0	NOEC	1,17 mg/L	Ceriodaphnia dubia	Crustacean
m-xylene	NOEC	0,714 mg/L	Danio rerio	Fish
CAS: 108-38-3 EC: 203-576-3	NOEC	1,57 mg/L	Daphnia magna	Crustacean
Ethylbenzene	NOEC	Non-applicable		
CAS: 100-41-4 EC: 202-849-4	NOEC	0,96 mg/L	Ceriodaphnia dubia	Crustacean
p-xylene	NOEC	0,714 mg/L	Danio rerio	Fish
CAS: 106-42-3 EC: 203-396-5	NOEC	1,57 mg/L	Daphnia magna	Crustacean
butan-1-ol	NOEC	Non-applicable		
CAS: 71-36-3 EC: 200-751-6	NOEC	4,1 mg/L	Daphnia magna	Crustacean
o-xylene	NOEC	1,3 mg/L	Oncorhynchus mykiss	Fish
CAS: 95-47-6 EC: 202-422-2	NOEC	1,57 mg/L	Daphnia magna	Crustacean
4-morpholinecarbaldehyde	NOEC	1 mg/L	N/A	Fish
CAS: 4394-85-8 EC: 224-518-3	NOEC	1 mg/L	Daphnia magna	Crustacean

*** Changeswith regards to the previous version*

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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

Identification	Concentration		Species	Genus
Xylene	NOEC	1,3 mg/L	Oncorhynchus mykiss	Fish
CAS: 1330-20-7 EC: 215-535-7	NOEC	1,17 mg/L	Ceriodaphnia dubia	Crustacean
2-methoxy-1-methylethyl acetate	NOEC	47,5 mg/L	Oryzias latipes	Fish
CAS: 108-65-6 EC: 203-603-9	NOEC	100 mg/L	Daphnia magna	Crustacean
Ethylbenzene	NOEC	Non-applicable		
CAS: 100-41-4 EC: 202-849-4	NOEC	0,96 mg/L	Ceriodaphnia dubia	Crustacean
N-butyl acetate	NOEC	Non-applicable		
CAS: 123-86-4 EC: 204-658-1	NOEC	23,2 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
Ethylbenzene	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 100-41-4	COD	Non-applicable	Period	14 days
EC: 202-849-4	BOD5/COD	Non-applicable	% Biodegradable	90 %
butan-1-ol	BOD5	1,71 g O2/g	Concentration	Non-applicable
CAS: 71-36-3	COD	2,46 g O2/g	Period	19 days
EC: 200-751-6	BOD5/COD	0,7	% Biodegradable	98 %
o-xylene	BOD5	Non-applicable	Concentration	36 mg/L
CAS: 95-47-6	COD	Non-applicable	Period	28 days
EC: 202-422-2	BOD5/COD	Non-applicable	% Biodegradable	70 %
4-morpholinecarbaldehyde	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 4394-85-8	COD	Non-applicable	Period	30 days
EC: 224-518-3	BOD5/COD	Non-applicable	% Biodegradable	100 %
Xylene	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 1330-20-7	COD	Non-applicable	Period	28 days
EC: 215-535-7	BOD5/COD	Non-applicable	% Biodegradable	88 %
2-methoxy-1-methylethyl acetate	BOD5	Non-applicable	Concentration	785 mg/L
CAS: 108-65-6	COD	Non-applicable	Period	8 days
EC: 203-603-9	BOD5/COD	Non-applicable	% Biodegradable	100 %
Ethylbenzene	BOD5	Non-applicable	Concentration	100 mg/L
CAS: 100-41-4	COD	Non-applicable	Period	14 days
EC: 202-849-4	BOD5/COD	Non-applicable	% Biodegradable	90 %
N-butyl acetate	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 123-86-4	COD	Non-applicable	Period	5 days
EC: 204-658-1	BOD5/COD	Non-applicable	% Biodegradable	84 %
2-(2-butoxyethoxy)ethanol	BOD5	0,25 g O2/g	Concentration	100 mg/L
CAS: 112-34-5	COD	2,08 g O2/g	Period	28 days
EC: 203-961-6	BOD5/COD	0,12	% Biodegradable	92 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential	
Reaction mass of ethylbenzene and xylene	BCF	9
CAS: Non-applicable	Pow Log	2.77
EC: 905-588-0	Potential	Low
m-xylene	BCF	15
CAS: 108-38-3	Pow Log	3.2
EC: 203-576-3	Potential	Low
Ethylbenzene	BCF	1
CAS: 100-41-4	Pow Log	3.15
EC: 202-849-4	Potential	Low
p-xylene	BCF	15
CAS: 106-42-3	Pow Log	3.15
EC: 203-396-5	Potential	Low

*** Changes with regards to the previous version*

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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

Identification	Bioaccumulation potential	
butan-1-ol CAS: 71-36-3 EC: 200-751-6	BCF Pow Log Potential	1 0.88 Low
o-xylene CAS: 95-47-6 EC: 202-422-2	BCF Pow Log Potential	6 3.12 Low
4-morpholinecarbaldehyde CAS: 4394-85-8 EC: 224-518-3	BCF Pow Log Potential	1 -1.2 Low
Xylene CAS: 1330-20-7 EC: 215-535-7	BCF Pow Log Potential	9 2.77 Low
2-methoxy-1-methylethyl acetate CAS: 108-65-6 EC: 203-603-9	BCF Pow Log Potential	1 0.43 Low
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	BCF Pow Log Potential	1 3.15 Low
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	BCF Pow Log Potential	4 1.78 Low
2-(2-butoxyethoxy)ethanol CAS: 112-34-5 EC: 203-961-6	BCF Pow Log Potential	0.46 0.56 Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
m-xylene CAS: 108-38-3 EC: 203-576-3	Koc Conclusion Surface tension	182 Moderate 2,826E-2 N/m (25 ºC)	Henry Dry soil Moist soil	790,34 Pa·m³/mol Yes Yes
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Koc Conclusion Surface tension	520 Moderate 2,859E-2 N/m (25 ºC)	Henry Dry soil Moist soil	798,44 Pa·m³/mol Yes Yes
p-xylene CAS: 106-42-3 EC: 203-396-5	Koc Conclusion Surface tension	540 Low 2,792E-2 N/m (25 ºC)	Henry Dry soil Moist soil	699,14 Pa·m³/mol Yes Yes
butan-1-ol CAS: 71-36-3 EC: 200-751-6	Koc Conclusion Surface tension	2.44 Very High 2,567E-2 N/m (25 ºC)	Henry Dry soil Moist soil	5,39E-2 Pa·m³/mol Yes Yes
o-xylene CAS: 95-47-6 EC: 202-422-2	Koc Conclusion Surface tension	537 Low 2,96E-2 N/m (25 ºC)	Henry Dry soil Moist soil	524,86 Pa·m³/mol Yes Yes
4-morpholinecarbaldehyde CAS: 4394-85-8 EC: 224-518-3	Koc Conclusion Surface tension	1 Very High Non-applicable	Henry Dry soil Moist soil	2,302E-3 Pa·m³/mol No No
Xylene CAS: 1330-20-7 EC: 215-535-7	Koc Conclusion Surface tension	202 Moderate Non-applicable	Henry Dry soil Moist soil	524,86 Pa·m³/mol Yes Yes
Ethylbenzene CAS: 100-41-4 EC: 202-849-4	Koc Conclusion Surface tension	520 Moderate 2,859E-2 N/m (25 ºC)	Henry Dry soil Moist soil	798,44 Pa·m³/mol Yes Yes
N-butyl acetate CAS: 123-86-4 EC: 204-658-1	Koc Conclusion Surface tension	Non-applicable Non-applicable 2,478E-2 N/m (25 ºC)	Henry Dry soil Moist soil	Non-applicable Non-applicable Non-applicable

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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

Identification	Absorption/desorption		Volatility	
2-(2-butoxyethoxy)ethanol	Koc	48	Henry	7,2E-9 Pa·m³/mol
CAS: 112-34-5	Conclusion	Very High	Dry soil	No
EC: 203-961-6	Surface tension	3,395E-2 N/m (25 ºC)	Moist soil	No

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.

SECTION 13: DISPOSAL CONSIDERATION

Description	Description	Waste class (Regulation (EU) No 1357/2014)
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	Dangerous

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

HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP3 Flammable, HP6 Acute Toxicity, HP4 Irritant — skin irritation and eye damage.

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 dengerous good by land:

With regard to ADR 2021 and RID 2021:



14.1 UN number or ID number:	UN1263
14.2 UN proper shipping name:	PAINT
14.3 Transport hazard class(es):	3
Labels:	3
14.4 Packing group:	III
14.5 Environmental hazards:	No
14.6 Special precautions for user	
Special regulations:	163, 367, 650
Tunnel restriction code:	D/E
Physico-Chemical properties:	see section 9
Limited quantities:	5 L
14.7 Maritime transport in bulk according to IMO instruments:	Non-applicable

Transport of dengerous good by sea

With regard to IMDG 40-20



UN number or ID number:	UN1263
14.2 UN proper shipping name:	PAINT
14.3 Transport hazard class(es):	3
Labels:	3
14.4 Packing group:	III
14.5 Marine pollutant:	No

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SECTION 14: TRANSPORT INFORMATION



14.6 Special precautions for user

Special regulations:	223, 955, 163, 367
EmS Codes:	F-E, S-E
Physico-Chemical properties:	see section 9
Limited quantities:	5 L
Segregation group:	Non-applicable

14.7 Maritime transport in bulk according to IMOinstruments: Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:



14.1 UN number or ID number:	UN1263
14.2 UN proper shipping name:	PAINT
14.3 Transport hazard class(es):	3
Labels:	3
14.4 Packing group:	III
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 specificfor the substanceor 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:

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c	FLAMMABLE LIQUIDS	5000	50000

Limitations to commercialisation and the use of certain dangerous substancesand 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.

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

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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:

COMMISSION REGULATION (EU) 2020/878.

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

- New declared substances:
  Reaction mass of ethylbenzene and xylene,
  m-xylene (108-38-3),
  p-xylene (106-42-3),
  o-xylene (95-47-6),
  4-morpholinecarbaldehyde (4394-85-8)
  Xylene (1330-20-7),
  Ethylbenzene (100-41-4).
- Removed substances:
  2-butoxyethanol (111-76-2),
  Xylene (1330-20-7),
  2-butanone oxime (96-29-7),
  2-ethylhexanoic acid, zirconium salt (22464-99-9),
  Reaction mass of ethylbenzene and m-xylene and p-xylene.

Substances that contribute to the classification (SECTION 2):

- New declared substances:
  Reaction mass of ethylbenzene and xylene,
  m-xylene (108-38-3),
  p-xylene (106-42-3).
- Removed substances:
  Xylene (1330-20-7),
  butan-1-ol (71-36-3),
  Reaction mass of ethylbenzene and m-xylene and p-xylene.

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

- Pictograms,
- Hazard statements,
- Substances contained in EUH208:
  - New declared substances:
    4-morpholinecarbaldehyde (4394-85-8).
  - Removed substances
    2-butanone oxime (96-29-7).

Texts of the legislative phrases mentioned in section 2:

H373: May cause damage to organs through prolonged or repeated exposure.
H315: Causes skin irritation.
H335: May cause respiratory irritation.
H312+H332: Harmful in contact with skin or if inhaled.
H304: May be fatal if swallowed and enters airways.
H226: Flammable liquid and vapour.
H319: Causes serious eye irritation.

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.

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SECTION 16: OTHER INFORMATION ** (continued)

CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed.

Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled.

Acute Tox. 4: H332 - Harmful if inhaled.

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

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

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.

Flam. Liq. 3: H226 - Flammable liquid and vapour.

Skin Irrit. 2: H315 - Causes skin irritation.

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

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Inhalation).

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral).

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.

STOT SE 3: H335 - May cause respiratory irritation.

STOT SE 3: H336 - May cause drowsiness or dizziness.

Classification procedure:

STOT RE 2: Calculation method.

Skin Irrit. 2: Calculation method.

STOT SE 3: Calculation method.

Acute Tox. 4: Calculation method.

Asp. Tox. 1: Calculation method.

Flam. Liq. 3: Calculation method (2.6.4.3).

Eye Irrit. 2: 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.

*** 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 -