Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

SAFETY DATA SHEET



ALPOLAN DUOFINISH 5461-15 - All variants

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

1.1 Product identifier

Product name : ALPOI

: ALPOLAN DUOFINISH 5461-15 - All variants

1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct use: Paint.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091. e-mail address of person : Prod-safe@teknos.com responsible for this SDS

National contact

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number: In an emergency, call 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361d STOT SE 3, H336

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word Hazard statements

- : Danger
- : H225 Highly flammable liquid and vapour.
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H319 Causes serious eye irritation.
 - H336 May cause drowsiness or dizziness.
 - H361d Suspected of damaging the unborn child.

Precautionary statements

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SECTION 2: Hazards identification

Prevention	:	 P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response	:	P308 + P313 - IF exposed or concerned: Get medical advice or attention.
Storage	:	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	;	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	Contains: n-Butyl acetate; Toluene; Methyl methacrylate and EO bis(benztriazolyl) phenylpropionat
Supplemental label elements	1	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do	:	None known.

not result in classification

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≥10 - ≤25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
Toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	<10	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	-	[1] [2]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	<10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]

SECTION 3: Com	position/informat	ion on	ingredients		
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
Methyl methacrylate	REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6	≤0.3	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	-	[1] [2]
EO bis(benztriazolyl) phenylpropionat	REACH #: 01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3	≤0.3	Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description	of first aid measures	

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SECTION 4: First aid	d measures
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
4.2 Most important sympton Over-exposure signs/symp	ns and effects, both acute and delayed ptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
4.3 Indication of any immed	iate medical attention and special treatment needed
	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
SECTION 5: Firefigh	iting measures
5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising	from the substance or mixture
Hazards from the substance or mixture	 Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
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Hazardous combustion products : Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides

5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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SECTION 5: Firefighting measures

Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure
equipment for me-nymers	
	mode. Clothing for fire-fighters (including helmets, protective boots and gloves)
	conforming to European standard EN 469 will provide a basic level of protection for
	chemical incidents.

SECTION 6: Accidental release measures

6.1	Personal	precautions.	protective eq	uipment and	emergency	procedures
••••					Since geney	p

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for	' CO	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

h w A b A a a a a a a e e e e e e	Put on appropriate personal protective equipment (see Section 8). Persons with a nistory of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be nazardous. Do not reuse container.
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SECTION 7: Handling and storage

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

7.3 Specific end use(s) Recommendations

: Not available.

Industrial sector specific

solutions

: Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
n-Butyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021). [Butyl
	acetate (all isomers except tert-butyl acetate)]
	CEIL: 480 mg/m ³ 15 minutes.
	CEIL: 100 ppm 15 minutes.
	TWA: 241 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Ethyl acetate	Regulation on Limit Values - MAC (Austria, 4/2021).
	TWA: 200 ppm 8 hours.
	TWA: 734 mg/m ³ 8 hours.
	PEAK: 1468 mg/m ³ , 4 times per shift, 15 minutes.
	PEAK: 400 ppm, 4 times per shift, 15 minutes.
Toluene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 50 ppm 8 hours.
	TWA: 190 mg/m ³ 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	PEAK: 380 mg/m ³ , 4 times per shift, 15 minutes.
Xylene	Regulation on Limit Values - MAC (Austria, 4/2021). [Xylenes
	(all isomers)]
	PEAK: 442 mg/m ³ , 4 times per shift, 15 minutes.
	TWA: 50 ppm 8 hours.
	PEAK: 100 ppm, 4 times per shift, 15 minutes.
	TWA: 221 mg/m ³ 8 hours.
Ethylbenzene	Regulation on Limit Values - MAC (Austria, 4/2021). Absorbed
	through skin.
	TWA: 100 ppm 8 hours.
	TWA: 440 mg/m ³ 8 hours.
	CEIL: 200 ppm, 8 times per shift, 5 minutes.
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Methyl methacrylate	CEIL: 880 mg/m ³ , 8 times per shift, 5 minutes. Regulation on Limit Values - MAC (Austria, 4/2021). Skin sensitiser. TWA: 50 ppm 8 hours. TWA: 210 mg/m ³ 8 hours. CEIL: 100 ppm, 8 times per shift, 5 minutes. CEIL: 420 mg/m ³ , 8 times per shift, 5 minutes.
No exposure limit value known.	
n-Butyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 150 ppm 15 minutes. STEL: 723 mg/m ³ 15 minutes. TWA: 241 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
Ethyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values STEL: 400 ppm 15 minutes. STEL: 1468 mg/m ³ 15 minutes. TWA: 200 ppm 8 hours. TWA: 734 mg/m ³ 8 hours.
Toluene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 192 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. STEL: 384 mg/m ³ 15 minutes.
Xylene	STEL: 000 ppm 15 minutes. STEL: 100 ppm 15 minutes. EU OEL (Europe, 1/2022). [xylene, mixed isomers pure] Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours.
Ethylbenzene	TWA: 221 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 442 mg/m ³ 15 minutes. EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list of indicative occupational exposure limit values TWA: 100 ppm 8 hours.
Methyl methacrylate	TWA: 442 mg/m ³ 8 hours. STEL: 200 ppm 15 minutes. STEL: 884 mg/m ³ 15 minutes. EU OEL (Europe, 1/2022). Notes: list of indicative occupational exposure limit values TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes.
No exposure limit value known.	
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ECTION 8: Exposure contr No exposure limit value known.	
No exposure limit value known.	
n-Butyl acetate	FOR-2011-12-06-1358 (Norway, 12/2022). STEL: 723 mg/m³ 15 minutes.
Ethyl acetate	STEL: 120 mg/m 15 minutes. STEL: 150 ppm 15 minutes. FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative limit value TWA: 241 mg/m³ 8 hours. TWA: 50 ppm 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). Notes: indicative limit value TWA: 200 ppm 8 hours. TWA: 734 mg/m³ 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). STEL: 1468 mg/m³ 15 minutes.
Toluene	STEL: 400 ppm 15 minutes. FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Notes: indicative limit value TWA: 25 ppm 8 hours.
Xylene	TWA: 94 mg/m ³ 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). [Xylene, all isomers] Absorbed through skin. Notes: indicative limit value TWA: 25 ppm 8 hours.
Ethylbenzene	TWA: 108 mg/m ³ 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). Absorbed through skin. Carcinogen. Notes: indicative limit value TWA: 5 ppm 8 hours.
Methyl methacrylate	TWA: 20 mg/m ³ 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser. Notes: indicative limit value TWA: 25 ppm 8 hours. TWA: 100 mg/m ³ 8 hours. FOR-2011-12-06-1358 (Norway, 12/2022). Skin sensitiser. STEL: 400 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes.
n-Butyl acetate	Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021).
Ethyl acetate	TWA: 240 mg/m ³ 8 hours. STEL: 720 mg/m ³ 15 minutes. Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2(2021)
Toluene	2/2021). TWA: 734 mg/m ³ 8 hours. STEL: 1468 mg/m ³ 15 minutes. Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible concentrations and values of agents harmful to health in the work environment (Journal of Laws 2021, item 325) (Poland, 2/2021). Absorbed through skin.
Xylene	TWA: 100 mg/m ³ 8 hours. STEL: 200 mg/m ³ 15 minutes. Regulation of the Minister of Family, Labor and Social Policy of 18 February 2021, regarding the highest permissible

	ns and values of agents harmful to health in the
2/2021). [xyle through skin TWA: 100 m	ment (Journal of Laws 2021, item 325) (Poland, ne – mixed isomers (1,2-, 1,3-, 1,4-)] Absorbed g/m³ 8 hours.
Ethylbenzene Regulation o of 18 Februar concentratio work environ 2/2021). Abso	ng/m ³ 15 minutes. f the Minister of Family, Labor and Social Policy ry 2021, regarding the highest permissible ns and values of agents harmful to health in the ment (Journal of Laws 2021, item 325) (Poland, orbed through skin. g/m ³ 8 hours.
Methyl methacrylate STEL: 400 m Regulation o of 18 Februar concentratio work environ 2/2021). TWA: 100 m	g/m ³ 15 minutes. f the Minister of Family, Labor and Social Policy ry 2021, regarding the highest permissible ns and values of agents harmful to health in the iment (Journal of Laws 2021, item 325) (Poland, g/m ³ 8 hours. ng/m ³ 15 minutes.
No exposure limit value known.	
No exposure limit value known.	
[Butyl acetat TWA: 241 m TWA: 50 pp STEL: 723 n	regulation SR c. 355/2006 (Slovakia, 9/2020). es] g/m³, (Butyl acetates) 8 hours. n, (Butyl acetates) 8 hours. ng/m³, (Butyl acetates) 15 minutes. pm, (Butyl acetates) 15 minutes.
Ethyl acetate Government TWA: 734 m TWA: 200 p STEL: 1468	regulation SR c. 355/2006 (Slovakia, 9/2020). g/m ³ 8 hours.
Toluene Government Absorbed the TWA: 192 m TWA: 50 pp STEL: 384 n	regulation SR c. 355/2006 (Slovakia, 9/2020). ough skin. g/m³ 8 hours.
Xylene Government [xylene, mixe TWA: 221 m TWA: 50 pp STEL: 442 n	regulation SR c. 355/2006 (Slovakia, 9/2020). ed isomers] Absorbed through skin. g/m³, (xylene, mixed isomers) 8 hours. n, (xylene, mixed isomers) 8 hours. ng/m³, (xylene, mixed isomers) 15 minutes. pm, (xylene, mixed isomers) 15 minutes.
Ethylbenzene Government Absorbed thu TWA: 442 m TWA: 100 p STEL: 884 n	regulation SR c. 355/2006 (Slovakia, 9/2020). rough skin. g/m³ 8 hours.
Methyl methacrylate Government sensitiser.	regulation SR c. 355/2006 (Slovakia, 9/2020). Skin pm 15 minutes.
No exposure limit value known.	

Biological exposure indices

Product/ingredient name	Exposure indices
Toluene	VGU BEI (Austria, 9/2020)
	BEI Fitness: 250 μg/l, toluene [in blood]. Sampling time: one year BEI Fitness: 0.8 mg/l, o-cresol [in urine]. Sampling time: one year
	BEI Fitness: 130000 /µl, platelets (non-pathological differential
	blood count) [in blood]. Sampling time: one year.
	BEI Fitness: 150000 /µl, platelets [in blood]. Sampling time: one year.
	BEI Fitness: 3700 to 13000 /μl, leukocytes (non-pathological
	differential blood count) [in blood]. Sampling time: one year. BEI Fitness: 4000 to 13000 /µl, leukocytes [in blood]. Sampling
	time: one year.
	BEI Fitness - men: 3.8 million/µl, erythrocytes [in blood]. Sampling
	time: one year. BEI Fitness - women: 3.2 million/μl, erythrocytes [in blood].
	Sampling time: one year.
	BEI Fitness - men: 12 g/dl, hemoglobin [in blood]. Sampling time: one year.
	BEI Fitness - women: 10 g/dl, hemoglobin [in blood]. Sampling
	time: one year.
Xylene	VGU BEI (Austria, 9/2020) [xylenes]
, yione	BEI Fitness: 1000 µg/l, xylene [in blood]. Sampling time: one year
	BEI Fitness: 1.5 g/l, methylhippuricacid [in urine]. Sampling time:
No exposure indices known.	one year.
No exposure indices known.	

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	Toluene	 Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 1010 µmol/mmol creatinine, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.08 µmol/mmol creatinine, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1600 mg/g creatinine, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 100 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of exposure or work shift. BLV: 100 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.03 mg/g creatinine, o-cresol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 13399 µmol/l, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 14.3 µmol/l, o-cresol [in urine]. Sampling time: at the end of exposure or work shift. BLV: 6517 nmol/l, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 2401 mg/l, hippuric acid [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.5 mg/l, o-cresol [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.5 mg/l, o-cresol [in urine]. Sampling time: at the end of exposure or work shift. BLV: 600 µg/l, toluene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 600 µg/l, toluene [in blood]. Sampling time: at the end of exposure or work shift.
	Xylene	Government regulation SR c. 355/2006 (Slovakia, 9/2020) [xylene, all isomers] BLV: 781 µmol/mmol creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1334 mg/g creatinine, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 10355 µmol/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 14.6 µmol/l, xylene [in blood]. Sampling time: at the end of exposure or work shift. BLV: 2000 mg/l, sum of 2,3,4-methylhippuroic acids [in urine]. Sampling time: at the end of exposure or work shift. BLV: 1.5 mg/l, xylene [in blood]. Sampling time: at the end of exposure or work shift.
	Ethylbenzene	 Government regulation SR c. 355/2006 (Slovakia, 9/2020) BLV: 799 µmol/mmol creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 7.44 µmol/mmol creatinine, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1067 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1067 mg/g creatinine, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 8.03 mg/g creatinine, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 10590 µmol/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 98.6 µmol/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts. BLV: 1600 mg/l, mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: at the end of exposure: after several work shift; long-term exposure: after several work shift; long-term exposure: after several work shift.
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	BLV: 12 mg/l, 2 or 4-etylfenol [in urine]. Sampling time: at the end of exposure or work shift; long-term exposure: after several work shifts.
No exposure indices known.	

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	2 mg/kg	General	Systemic
	DNEL	Short term Dermal	bw/day 6 mg/kg	population General	Systemic
	DNEL	Short term Dermal	bw/day 11 mg/kg	population Workers	Systemic
	DNEL	Long term Inhalation	bw/day 35.7 mg/m³	General population	Local
	DNEL	Short term Inhalation	300 mg/m ³	General population	Local
	DNEL	Short term Inhalation	300 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	300 mg/m³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m³	Workers	Local
	DNEL	Short term Inhalation	600 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	48 mg/m³	Workers	Systemic
Ethyl acetate	DNEL	Long term Oral	4.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	37 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	63 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	367 mg/m ³	General population	Local
	DNEL	Long term Inhalation	367 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	734 mg/m³	General population	Local

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	DNEL	Short term	734 mg/m ³	General	Systemic
		Inhalation	701 mg/m	population	Cyclonno
	DNEL	Long term Inhalation	734 mg/m³	Workers	Local
	DNEL	Long term	734 mg/m³	Workers	Systemic
	DNEL	Inhalation Short term	1468 mg/	Workers	Local
	DNEL	Inhalation Short term	m³ 1468 mg/	Workers	Systemic
Toluene	DNEL	Inhalation Long term Oral	m ³ 8.13 mg/	General	Systemic
loidene			kg bw/day	population	
	DNEL	Long term Inhalation	56.5 mg/m ³	General population	Local
	DNEL	Long term Inhalation	56.5 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	192 mg/m³	Workers	Local
	DNEL	Long term	192 mg/m³	Workers	Systemic
	DNEL	Inhalation Long term Dermal	226 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term	226 mg/m ³	General	Local
		Inhalation	000	population	Out the state
	DNEL	Short term Inhalation	226 mg/m ³	General	Systemic
	DNEL	Long term Dermal	384 mg/kg bw/day	population Workers	Systemic
	DNEL	Short term Inhalation	384 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	384 mg/m³	Workers	Systemic
Xylene	DNEL	Long term Inhalation	65.3 mg/m³	General population	Local
	DNEL	Short term	260 mg/m ³	General	Local
	DNEL	Inhalation Short term	260 mg/m ³		Systemic
	DNEL	Inhalation Long term Inhalation	221 mg/m³	population Workers	Local
	DNEL	Long term Oral	12.5 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	65.3 mg/m ³	General	Systemic
	DNEL	Long term Dermal	125 mg/kg	population General	Systemic
	DNEL	Long term Dermal	bw/day 212 mg/kg bw/day	population Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
	DNEL	Short term	442 mg/m ³	Workers	Local
	DNEL	Inhalation Short term	442 mg/m ³	Workers	Systemic
Ethylbenzene	DNEL	Inhalation Long term Oral	1.6 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Inhalation	15 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m ³	Workers	Local
	DMEL	Long term	442 mg/m³	Workers	Local

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		Inhalation			
	DMEL	Short term	884 mg/m ³	Workers	Systemic
	DIVIEL	Inhalation	004 mg/m	WORKERS	Systemic
Methyl methacrylate	DNEL	Long term Oral	9.2 ma/ka	General	Systemic
	DINEL	Long term Oral	8.2 mg/kg bw/day	population	Systemic
	DNEL	Short term	208 mg/m ³	General	Local
	DINLL	Inhalation	200 mg/m	population	LUCAI
	DNEL	Short term	416 mg/m ³	Workers	Local
		Inhalation		11011013	
	DNEL	Short term Dermal	1.5 mg/cm ²	General	Local
	DILL	onore torm Bornia	n.o mg/om	population	Loodi
	DNEL	Long term Dermal	1.5 mg/cm ²		Local
		Long tonin Donnar	no ng, on	population	2000
	DNEL	Short term Dermal	1.5 mg/cm ²		Local
	DNEL	Long term Dermal	1.5 mg/cm ²		Local
	DNEL	Long term Dermal	8.2 mg/kg	General	Systemic
			bw/day	population	5
	DNEL	Long term Dermal	13.67 mg/	Workers	Systemic
			kg bw/day		5
	DNEL	Long term	74.3 mg/m ³	General	Systemic
		Inhalation	-	population	
	DNEL	Long term	104 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term Inhalation	208 mg/m ³	Workers	Local
	DNEL		348.4 mg/	Workers	Systemic
	DINEL	Long term Inhalation	546.4 mg/	VVUIKEIS	Systemic

PNECs

No PNECs available

8.2 Exposure controls			
8.2 Exposure controls Appropriate engineering controls	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.		
Individual protection measu	<u>res</u>		
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.		
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.		
Skin protection			
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.		
	Recommendations : Wear suitable gloves tested to EN374.		
	< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm		
	1 - 4 hours (breakthrough time): 4H / Silver Shield® gloves.		

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Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	 Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Filter type: A
	Filter type (spray application): A P
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

: Liquid.
: Colourless.
: Slight
: Not available.
: Not available.
:

Ingredient name		°C	°F	Method		
Ethyl acetate		77.1	170.8			
Toluene		110.6	231.1			

Flammability	: Not available.
Lower and upper explosion	: Lower: 0.8%
limit	Upper: 11.5%

limit	Upper: 11.5%
Flash point	: Closed cup: -

: Closed cup: -1°C (30.2°F)

Auto-ignition temperature

Ingredient name		°C	°F	Method			
n-Butyl acetate		415	779	EU A.15			
Ethyl acetate		426.67	800				
Decomposition temperature	: Not ava	ilable.		· · · ·			
ЭΗ	: Not app	licable.					
Viscosity	: Not ava	ilable.					
Solubility(ies)	:						
Not available.							
Solubility in water	: Not ava	ilable.					
Partition coefficient: n-octanol/ water	: Not app	licable.					
Vapour pressure	:						
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	Va	Vapour Pressure at 20°C			Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
Ethyl acetate	81.59163	10.9						
Toluene	23.17	3.1						
elative density	: Not	available.	<u>-</u>					
ensity	: 0.9	g/cm³						
apour density	: Not	available.						
xplosive properties	: Not	available.						
xidising properties	: Not	available.						
article characteristics								
Median particle size	: Not	applicable.						

SECTION 10: Stabilit	y and reactivity
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidising materials
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-Butyl acetate	LC50 Inhalation Vapour	Rat	0.74 mg/l	4 hours
-	LD50 Dermal	Rabbit	14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
Ethyl acetate	LD50 Oral	Rat	5620 mg/kg	-
Toluene	LC50 Inhalation Vapour	Rat	49 g/m ³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Xylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Ethylbenzene	LC50 Inhalation Dusts and mists	Rat	29000 mg/l	4 hours
	LD50 Dermal	Rabbit	15400 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Methyl methacrylate	LC50 Inhalation Vapour	Rat	78000 mg/m ³	4 hours
- ·	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	7872 mg/kg	-

Acute toxicity estimates

Rection 11: Toxicological information Route ATE value Dermal 13721.01 mg/kg Inhalation (vapours) 110.97 mg/l

Irritation/Corrosion

n-Butyl acetate Eyes - Moderate irritant Skin - Moderate irritant Skin - Moderate irritant Rabbit - 100 mg - 24 hours 500 - mg mg 0.5 minutes - 100 mg - 24 hours 500 - 100 mg - 24 hours 500 - 100 mg - 24 hours 2 - 100 mg - 24 hours 500 - 100 mg - 24 hours 500 - 100 mg - 24 hours 5 - 100 mg - 24 hours 5 - 100 mg - 24 hours 5 - 100 % - 24 hours 500 - 100 % - 24 hours 15 - 100 % - 24 hour	Product/ingredient name	Result	Species	Score	Exposure	Observation
TolueneEyes - Mild irritantRabbit-mg 0.5 minutes 100 mg-Eyes - Mild irritantRabbit-870 ug-Eyes - Severe irritantRabbit-24 hours 20-Mg-24 hours 200-uLSkin - Mild irritantRabbit-435 mg-Skin - Mild irritantRabbit-24 hours 200-Skin - Moderate irritantRabbit-24 hours 200-Skin - Moderate irritantRabbit-24 hours 200-Skin - Moderate irritantRabbit-87 mg-Eyes - Severe irritantRabbit-87 mg-Skin - Moderate irritantRabbit-87 mg-Eyes - Severe irritantRabbit-8 hours 60 uL-Skin - Mild irritantRat-8 hours 60 uL-Skin - Mild irritantRabbit-100 %-Skin - Mild irritantRabbit-24 hours 500-Skin - Mild irritantRabbit-500 mg-Skin - Mild irritantRabbit-500 mg-Skin - Mild irritantRabbit-100 %-Skin - Mild irritantRabbit-100 %-Skin - Mild irritantRabbit-100 %-Skin - Mild irritantRabbit-100 %-Skin - Mild irritantRabbit-100 %-Conclusion/Summary	n-Butyl acetate			-		-
TolueneEyes - Mild irritantRabbit-0.5 minutes 100 mg-Eyes - Mild irritantRabbit-0.5 minutes 100 mg-Eyes - Severe irritantRabbit-24 hours 2 uLSkin - Mild irritantPig-24 hours 250 uLSkin - Mild irritantRabbit-435 mgSkin - Mild irritantRabbit-435 mgSkin - Moderate irritantRabbit-24 hours 20 mgSkin - Moderate irritantRabbit-500 mgEyes - Severe irritantRabbit-87 mgEyes - Severe irritantRabbit-24 hours 5Skin - Moderate irritantRabbit-100 %Skin - Moderate irritantRabbit-100 %Skin - Moderate irritantRabbit-100 %Skin - Moderate irritantRabbit-24 hours 500Skin - Moderate irritantRabbit-24 hours 500Skin - Moderate irritantRabbit-24 hours 15Skin - Mild irritantRabbit-24 hours 15Skin - Mild irritantRabbit-24 hours 15Skin - Mild irritantRabbit-24 hours 15Conclusion/Summary:Causes skin irritation.Sensitisation24 hours 15Conclusion/Summary:Based on available data, the classification criteria are not met.Carclusion/Summary:Based on available data, the classification criteria are not met.<		Skin - Moderate irritant	Rabbit	-		-
Eyes - Mild irritant Eyes - Severe irritantRabbit Rabbit-870 ug 870 ug Skin - Mild irritant Eyes - Severe irritantPig-24 hours 2 o mg-Skin - Mild irritant Skin - Mild irritantRabbit-435 mg 435 mg-XyleneSkin - Moderate irritant Eyes - Mild irritant Eyes - Mild irritantRabbit-435 mg 405 mg-XyleneSkin - Moderate irritant Eyes - Mild irritant Eyes - Severe irritantRabbit Rabbit-24 hours 20 mg 9-Skin - Moderate irritant Eyes - Severe irritant Skin - Moderate irritant Eyes - Severe irritantRabbit Rabbit-24 hours 5 mgSkin - Mild irritant Skin - Moderate irritant Skin - Moderate irritant Skin - Moderate irritant Rabbit-100 % 100 %-EthylbenzeneEyes - Severe irritant Skin - Mild irritantRabbit Rabbit-24 hours 500 - mgEthylbenzeneEyes - Severe irritant Skin - Mild irritantRabbit Rabbit-24 hours 15 - mgConclusion/Summary Conclusion/Summary: Causes skin irritationSensitisation Conclusion/Summary Conclusion/Summary: May cause an allergic skin reactionWutagenicity Conclusion/Summary Conclusion/Summary: Based on available data, the classification criteria are not metReproductive toxicity Conclusion/Summary: Based on available data, the classification criteria are not met	Taluana	Errer Milel inside set	Dabbit			
Eyes - Mild irritant Eyes - Severe irritantRabbit Rabbit-870 ug 24 hours 2-Skin - Mild irritantPig-24 hours 250 uL-Skin - Mild irritantRabbit-435 mg 24 hours 20-Skin - Moderate irritantRabbit-24 hours 20 mg-Skin - Moderate irritantRabbit-24 hours 20 mg-Skin - Moderate irritantRabbit-24 hours 20 mg-Skin - Moderate irritantRabbit-24 hours 50 mg-Eyes - Mild irritantRabbit-24 hours 5-Eyes - Mild irritantRabbit-24 hours 5-Skin - Moderate irritantRabbit-24 hours 500 mg-Skin - Mild irritantRat-8 hours 60 uL 100 %-Skin - Mild irritantRat-100 % Skin - Mild irritantRabbit-24 hours 500 mg-Skin - Mild irritantRabbit-24 hours 150 mg-EthylbenzeneEyes - Severe irritant Skin - Mild irritantRabbit-24 hours 15 mgConclusion/Summary:Causes skin irritation.Sensitisation-Conclusion/Summary:Based on available data, the classification criteria are not met.Conclusion/Summary:Based on available data, the classification criteria are not metReproductive toxicity Conclusion/Summary:Based on available data, th	loluene	Eyes - Mild Irritant	Raddit	-		-
Eyes - Severe irritantRabbit-24 hours 2 mg-Skin - Mild irritantPig-24 hours 20 uL-Skin - Mild irritantRabbit-435 mg-Skin - Moderate irritantRabbit-24 hours 20 mg-Skin - Moderate irritantRabbit-24 hours 20 mg-Skin - Moderate irritantRabbit-24 hours 20 mg-Skin - Moderate irritantRabbit-87 mg 2-Eyes - Severe irritantRabbit-87 mg 2-Skin - Mild irritantRat-8 hours 60 uL mg-Skin - Mild irritantRat-8 hours 60 uL 100 %-Skin - Mild irritantRat-24 hours 15 mg-EthylbenzeneEyes - Severe irritant Skin - Mild irritantRabbit-500 mg 24 hours 15 mgConclusion/Summary:Causes skin irritation.Sensitisation:Conclusion/Summary:Based on available data, the classification criteria are not met.Conclusion/Summary:Based on available data, the classification criteria are not metReproductive toxicity Conclusion/Summary:Based on available data, the classification criteria are not met		Eves - Mild irritant	Rabbit	-		-
Skin - Mild irritantPig-24 hours 250-Skin - Mild irritantRabbit-435 mg-Skin - Moderate irritantRabbit-24 hours 20-Skin - Moderate irritantRabbit-500 mg-Eyes - Mild irritantRabbit-87 mg-Eyes - Severe irritantRabbit-87 mg-Skin - Mild irritantRabbit-87 mg-Eyes - Severe irritantRabbit-100 %-Skin - Mild irritantRat-8 hours 60 uL-Skin - Moderate irritantRabbit-100 %-Skin - Moderate irritantRabbit-100 %-Skin - Moderate irritantRabbit-24 hours 500-Mg100 %Skin - Mild irritantRabbit-24 hours 15-Skin - Mild irritantRabbit-500 mg-Skin - Mild irritantRabbit-500 mg-Skin - Mild irritantRabbit-500 mg-Skin - Mild irritantRabbit-500 mg-Conclusion/Summary:Causes skin irritationSensitisationConclusion/Summary:Based on available data, the classification criteria are not metConclusion/Summary:Based on available data, the classification criteria are not met. <td< td=""><td></td><td></td><td></td><td>-</td><td></td><td>-</td></td<>				-		-
XyleneJuleSkin - Mild irritantRabbit-Skin - Moderate irritantRabbit-Skin - Moderate irritantRabbit-Eyes - Mild irritantRabbit-Eyes - Mild irritantRabbit-Eyes - Severe irritantRabbit-Skin - Moderate irritantRabbit-Eyes - Severe irritantRat-Skin - Mild irritantRat-Eyes - Severe irritantRat-Skin - Moderate irritantRabbit-Skin - Moderate irritantRabbit-Skin - Moderate irritantRabbit-Skin - Moderate irritantRabbit-Skin - Mild irritantRabbit-Skin - Moderate irritantRabbit-Skin - Mild irritantRabbit-Skin - Moderate irritantRabbit-Skin - Mild irritant-Skin - Mild irritant-Stin - Skin - Mild irritant-						
Skin - Mild irritantRabbit-435 mg-Skin - Moderate irritantRabbit-24 hours 20-mgSkin - Moderate irritantRabbit-24 hours 20Eyes - Mild irritantRabbit-87 mg-Eyes - Severe irritantRabbit-24 hours 5-mgSkin - Mild irritantRat-87 mg-Eyes - Severe irritantRabbit-24 hours 5-Skin - Mild irritantRat-8 hours 60 uL-Skin - Moderate irritantRabbit-100 %-Skin - Moderate irritantRabbit-24 hours 500-Skin - Moderate irritantRabbit-24 hours 500-Skin - Mild irritantRabbit-24 hours 15-Skin - Mild irritantRabbit-24 hours 15-Skin - Mild irritantRabbit-24 hours 15-Based on available data, the classification criteria are not metConclusion/Summary:Based on available data, the classification criteria are not met.Conclusion/Summary:Based on available data, the classification criteria are not met.Conclusion/Summary:Based on available data, the classification criteria are not met.		Skin - Mild irritant	Pig	-		-
XyleneSkin - Moderate irritantRabbit-24 hours 20 mg-Skin - Moderate irritantRabbit-500 mg-Eyes - Mild irritantRabbit-87 mg-Eyes - Severe irritantRabbit-24 hours 5-Skin - Mild irritantRat-8 hours 60 uL-Skin - Mild irritantRat-8 hours 60 uL-Skin - Moderate irritantRabbit-100 %-Skin - Moderate irritantRabbit-24 hours 500-Skin - Moderate irritantRabbit-24 hours 500-Skin - Moderate irritantRabbit-24 hours 500-EthylbenzeneEyes - Severe irritantRabbit-500 mg-EthylbenzeneEyes - Severe irritantRabbit-24 hours 15-Conclusion/Summary:Causes skin irritation24 hours 15-Sensitisation-May cause an allergic skin reactionWutagenicity-Based on available data, the classification criteria are not metConclusion/Summary:Based on available data, the classification criteria are not metCarcinogenicity:Based on available data, the classification criteria are not metConclusion/Summary:Based on available data, the classification criteria are not met		Claim Mild invitoret	Dabbit			
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<u>Teratogenicity</u>		: Based on available data, the	classification c	riteria are	not met.	
	<u>Feratogenicity</u>					

Conclusion/Summary : Suspected of damaging the unborn child.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
n-Butyl acetate	Category 3	-	Narcotic effects
Ethyl acetate	Category 3	-	Narcotic effects
Toluene	Category 3	-	Narcotic effects
Xylene	Category 3	-	Respiratory tract irritation
Methyl methacrylate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs	
Toluene	Category 2	-	-	
Xylene	Category 2	oral, inhalation	-	
Ethylbenzene	Category 2	oral, inhalation	hearing organs	

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SECTION 11: Toxicological information

Aspiration hazard

Product/ingredient name	Result
Toluene	ASPIRATION HAZARD - Category 1
Xylene	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure	: Not available.	
Potential acute health effects	<u>s</u>	
Eye contact	: Causes serious eye irritation.	
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.	
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.	
Ingestion	: Can cause central nervous system (CNS) depression.	
	vsical, chemical and toxicological characteristics	
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations	
Skin contact	: Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations	
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations	
Delaved and immediate effect	cts as well as chronic effects from short and long-term exposure	
Short term exposure	<u></u>	
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Long term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health eff	ects	
Not available.		
Conclusion/Summary	: Not available.	
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.	
Carcinogenicity	: No known significant effects or critical hazards.	
Mutagenicity	No known significant effects or critical hazards.	

Mutagenicity	: No known significant effects or critical hazards.
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SECTION 11: Toxicological information

Reproductive toxicity

: Suspected of damaging the unborn child.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Acute EC50 2500000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
Acute LC50 750000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
Acute LC50 154000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
Acute LC50 212500 µg/l Fresh water	Fish - Heteropneustes fossilis	96 hours
Chronic NOEC 12 mg/l Fresh water	Daphnia - Daphnia magna	21 days
Chronic NOEC 75.6 mg/l Fresh water	Fish - <i>Pimephales promelas</i> - Embryo	32 days
Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus	48 hours
Acute EC50 5.56 mg/l Fresh water	, Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
Acute LC50 5500 μg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
Chronic NOEC 1000 µg/l Fresh water	-	21 days
Acute LC50 130000 µg/l Fresh water	Fish - <i>Pimephales promelas</i> - Adult	96 hours
_	Acute EC50 2500000 µg/l Fresh water Acute LC50 750000 µg/l Fresh water Acute LC50 154000 µg/l Fresh water Acute LC50 212500 µg/l Fresh water Chronic NOEC 12 mg/l Fresh water Chronic NOEC 75.6 mg/l Fresh water Acute EC50 12500 µg/l Fresh water Acute EC50 11600 µg/l Fresh water Acute EC50 5.56 mg/l Fresh water Acute LC50 5500 µg/l Fresh water Chronic NOEC 1000 µg/l Fresh water	Acute EC50 2500000 µg/l Fresh water Acute LC50 750000 µg/l Fresh water Acute LC50 154000 µg/l Fresh water Chronic NOEC 12 mg/l Fresh water Chronic NOEC 75.6 mg/l Fresh waterAlgae - Selenastrum sp. Crustaceans - Gammarus pulex Daphnia - Daphnia cucullata Fish - Heteropneustes fossilis Daphnia - Daphnia magna Fish - Pimephales promelas - EmbryoAcute EC50 12500 µg/l Fresh water Chronic NOEC 75.6 mg/l Fresh water Acute EC50 12500 µg/l Fresh waterAlgae - Selenastrum sp. Crustaceans - Gammarus pulex Daphnia - Daphnia magna Fish - Heteropneustes fossilis Daphnia - Daphnia magna Fish - Pimephales promelas - EmbryoAcute EC50 12500 µg/l Fresh water Acute EC50 11600 µg/l Fresh water Acute EC50 5.56 mg/l Fresh waterCrustaceans - Gammarus pseudolimnaeus - Adult Daphnia - Daphnia magna - NeonateAcute LC50 5500 µg/l Fresh water Chronic NOEC 1000 µg/l Fresh water Acute LC50 130000 µg/l Fresh waterFish - Oncorhynchus kisutch - Fry Daphnia - Daphnia magna Fish - Pimephales promelas -

12.2 Persistence and degradability

Conclusion/Summary : This product has not been tested for biodegradation.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
n-Butyl acetate	2.3	-	Low
Ethyl acetate	0.68	30	Low
Toluene	2.73	90	Low
Xylene	3.12	8.1 to 25.9	Low
Ethylbenzene	3.6	-	Low
Methyl methacrylate	1.38	-	Low

12.4 Mobility in soil	
Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

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SECTION 12: Ecological information

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
European waste catalogue (EWC)	: 08.01.11
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1993	UN1993	UN1993	UN1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, ethyl acetate)	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, ethyl acetate)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, xylene)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, xylene)
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	11	11	11	11
14.5 Environmental hazards	No.	Yes.	No.	No.
Additional informa	ition	1	1	1
	· Special pr	ovisions 640 (C)		

ADR/RID	:	<u>Special provisions</u> 640 (C) <u>Tunnel code</u> (D/E)
ADN	:	The product is only regulated as an environmentally hazardous substance when transported in tank vessels. Special provisions 640 (C)
14.6 Special precautions for user	:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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SECTION 14: Transport information

14.7 Maritime transport in bulk according to IMO instruments

: Not relevant/applicable due to nature of the product.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
ALPOLAN DUOFINISH 5461-15 Toluene	≥90 <10	3 48
Labelling :		
Other EU regulations		
Industrial emissions : Not listed (integrated pollution prevention and control) - Air		
Industrial emissions : Not listed (integrated pollution prevention and control) - Water		
Explosive precursors : Not applic	able.	
Ozone depleting substances (1005/2009 Not listed.	<u>9/EU)</u>	
Prior Informed Consent (PIC) (649/2012 Not listed.	<u>/EU)</u>	
Persistent Organic Pollutants Not listed. Seveso Directive		
This product is controlled under the Seves Danger criteria	o Directive.	
Category		
P5c		
National regulations		
Austria		
VbF class : A I Very dang	jerous flamma	able liquid.
Limitation of the use of : Permitted organic solvents		
Czech Republic		
<u>Denmark</u>		
<u>Finland</u>		
France		
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SECTION 15: Regulatory information

Hazardous incident ordinance

<u>Italy</u>	
Netherlands	
<u>Norway</u>	
<u>Sweden</u>	
Switzerland	
International regulations	<u>5</u>
Chemical Weapon Conv	ention List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	
Not listed.	
	Provident Original Ball danda
	on Persistent Organic Pollutants
Not listed.	
Rotterdam Convention of	on Prior Informed Consent (PIC)
Not listed.	
UNECE Aarhus Protocol	on POPs and Heavy Metals
Not listed.	
15.2 Chemical safety assessment	: This product contains substances for which Chemical Safety Assessments are still required.
SECTION 16: Othe	r information
Indicates information th	at has changed from previously issued version.
Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

	Indicates information t	hat has changed from previously issued version.
Α	bbreviations and cronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 2, H361d	Calculation method
STOT SE 3, H336	Calculation method

Full text of abbreviated H statements

SECTION 16	: Other information
H225	Highly flammable liquid and vapour.
	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
	Harmful if inhaled.
	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
	May cause damage to organs through prolonged or repeated exposure.
	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
Full text of classi	fications [CLP/GHS]
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
Date of issue/ Da revision	te of : 26/01/2024
	ieeue
Date of previous	issue : No previous validation

Notice to reader

Version

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

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