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

SAFETY DATA SHEET



KORRO PVB - All variants

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

1.1 Product identifier	
Product name	

: KORRO PVB - 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

1115 303

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
- Emergency medical information: (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland.
 Members of the public Number (8 am-10 pm): +353 (0)1 809 2166 Healthcare professional telephone Number (24hrs): +353 (0)1 809 2566

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 Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 STOT SE 3, H336 STOT RE 2, H373 Aquatic Chronic 2, H411

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



: Danger

SECTION 2: Hazards identification

SECTION 2: Hazards	IC	ientification
Hazard statements	:	 H225 - Highly flammable liquid and vapour. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness. H373 - May cause damage to organs through prolonged or repeated exposure. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	 P280 - Wear protective gloves. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment.
Response	4	P391 - Collect spillage.
Storage	1	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	1	Contains: Propan-2-ol; Xylene; iso-butanol and reaction product: bisphenol-A- (epichlorhydrin); epoxy resin
Supplemental label elements	:	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
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 not result in classification	:	None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
₽ropan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥25 - ≤50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	-	[1] [2]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥10 - ≤25	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]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5	≤10	Carc. 2, H351 (inhalation)	-	[1] [*]
Date of issue/Date of revision	: 24/04/2025 Date	e of previous is	sue : 05/09/2022	Version : 2	2/29
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	CAS: 13463-67-7				
so-butanol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≤10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2
Trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≤10	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤5	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
Urea-formaldehyde-polymer	CAS: 68002-18-6	≤3	Aquatic Chronic 4, H413	-	[1]
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	EC: 500-033-5 CAS: 25068-38-6	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
Butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≤3	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	ATE [Oral] = 790 mg/kg	[1] [2
Phenol	REACH #: 01-2119471329-32 EC: 203-632-7 CAS: 108-95-2 Index: 604-001-00-2	≤0.8	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Muta. 2, H341 STOT RE 2, H373	ATE [Oral] = 100 mg/kg ATE [Dermal] = 630 mg/kg ATE [Inhalation (vapours)] = 3 mg/l Skin Corr. 1B, H314: $C \ge 3\%$ Skin Irrit. 2, H315: 1% $\le C < 3\%$ Eye Dam. 1, H318: $C \ge 3\%$ Eye Irrit. 2, H319: 1% $\le C < 3\%$	[1] [2
Zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤0.3	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1] [2
Fatty acids, tall-oil, compds. with oleylamine	REACH #: 01-2119974148-28 EC: 288-315-1 CAS: 85711-55-3	<0.1	Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT RE 2, H373	-	[1]
Formaldehyde	REACH #: 01-2119488953-20 EC: 200-001-8 CAS: 50-00-0 Index: 605-001-00-5	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (gases)] = 700 ppm	[1] [2

SECTION 3: Composition/information on ingredients

Muta. 2, H341	Skin Corr. 1B,
Carc. 1B, H350	H314: C ≥ 25%
STOT SE 3, H335	Skin Irrit. 2, H315:
	5% ≤ C < 25%
	Eye Dam. 1, H318:
	C ≥ 25%
	Eye Irrit. 2, H319:
	5% ≤ C < 25%
	Skin Sens. 1, H317:
	C ≥ 0.2%
	STOT SE 3, H335:
	C ≥ 5%
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.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter \leq 10 µm not bound within a matrix.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. 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. 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	: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a 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.

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.
	ns and effects, both acute and delayed
Over-exposure signs/symp	
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any immed	iate medical attention and special treatment needed
Notes to physician	: 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	ting 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. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides halogenated compounds metal oxide/oxides

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.

SECTION 5: Firefighting measures

Special protective	: Fire-fighters should wear appropriate protective equipment and self-contained
equipment for fire-fighters	breathing apparatus (SCBA) with a full face-piece operated in positive pressure
	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 equ	uipment and ei	mergency	procedures
	productiono,			no gonoj	procoduroo

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. Do not breathe 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and material for	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. 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.
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

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in
	, , , , ,
	which this product is used. Do not get in eyes or on skin or clothing. Do not breathe
	vapour or mist. Do not ingest. Avoid release to the environment. 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 hazardous. Do not reuse container.

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. Store locked up. 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. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold
₽5c	5000 tonnes	50000 tonnes
E2	200 tonnes	500 tonnes

7.3 Specific end use(s)

: Not available.

Recommendations 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					
₽ropan-2-ol	NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 200 ppm. OELV 15 minutes: 400 ppm.					
Xylene	 NAOSH (Ireland, 4/2024) [xylene] Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 221 mg/m³. OELV 15 minutes: 100 ppm. OELV 15 minutes: 442 mg/m³. 					
iso-butanol	NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 150 ppm. OELV 8 hours: 700 mg/m ³ .					
Ethylbenzene	 NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 100 ppm. OELV 8 hours: 442 mg/m³. OELV 15 minutes: 200 ppm. OELV 15 minutes: 884 mg/m³. 					
Butan-1-ol	NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 20 ppm.					
Phenol	NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 2 ppm.					
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SECTION 8: Exposure controls/personal protection

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	OELV 8 hours: 8 mg/m ³ .
	OELV 15 minutes: 16 mg/m ³ .
	OELV 15 minutes: 4 ppm.
Zinc oxide	NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure
	Limit Values (OELVs)
	OELV 8 hours: 2 mg/m ³ . Form: respirable fraction.
	OELV 15 minutes: 10 mg/m ³ . Form: fume.
Formaldehyde	NAOSH (Ireland, 4/2024) Carc 1B. Sensitiser. Notes: EU derived
	Occupational Exposure Limit Values
	OELV 8 hours: 0.3 ppm.
	OELV 15 minutes: 0.6 ppm.
	OELV 15 minutes: 0.738 mg/m ³ .
	OELV 8 hours: 0.37 mg/m ³ .

Biological exposure indices

Product/ingredient name	Exposure indices
Propan-2-ol	NAOSH (Ireland, 1/2011) BMGV: 40 mg/l, acetone [in urine]. Sampling time: end of shift at end of workweek.
Xylene	NAOSH (Ireland, 1/2011) [Xylene] BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
Ethylbenzene	NAOSH (Ireland, 1/2011) BMGV: Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question., ethylbenzene [in endexhaled air]. Sampling time: not critical. BMGV: 0.7 g/g creatinine [Semi-quantitative, the biological analyte is an indicator of exposure to the substance but the quantitative interpretation of the measurement is ambiguous. These analytes should be used as a screening test if a quantitative test is not practical; or as a confirmatory test if the quantitative test is not specific and the origin of the determinant is in question.], mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift at end of workweek.
Phenol	NAOSH (Ireland, 1/2011) BMGV: 120 mg/g creatinine, phenol [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
procedures European S assessmen values and atmosphere of exposure (Workplace for the mea	should be made to monitoring standards, such as the following: Standard EN 689 (Workplace atmospheres - Guidance for the it of exposure by inhalation to chemical agents for comparison with limit measurement strategy) European Standard EN 14042 (Workplace es - Guide for the application and use of procedures for the assessment to chemical and biological agents) European Standard EN 482 e atmospheres - General requirements for the performance of procedures isurement of chemical agents) Reference to national guidance for methods for the determination of hazardous substances will also be

DNELs/DMELs

Product/ingredient name

Result

₽ropan-2-ol	DNEL - Workers - Long term - Inhalation 500 mg/m³ <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Dermal 888 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Oral 26 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Short term - Oral 51 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Inhalation 89 mg/m ³ <u>Effects</u> : Systemic
	DNEL - General population - Short term - Inhalation 178 mg/m ³ <u>Effects</u> : Systemic
	DNEL - General population - Long term - Dermal 319 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - Workers - Short term - Inhalation 1000 mg/m ³ Effects: Systemic
Xylene	DNEL - General population - Long term - Oral 5 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Inhalatior 65.3 mg/m ³ Effects: Local
	DNEL - General population - Long term - Inhalatior 65.3 mg/m ³ Effects: Systemic
	DNEL - General population - Long term - Dermal 125 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Dermal 212 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 221 mg/m ³ Effects: Local
	DNEL - Workers - Long term - Inhalation 221 mg/m ³ <u>Effects</u> : Systemic
	DNEL - General population - Short term - Inhalation 260 mg/m ³ <u>Effects</u> : Local
	DNEL - General population - Short term - Inhalatior 260 mg/m ³

SECTION 8: Exposure controls/personal protection Effects: Systemic DNEL - Workers - Short term - Inhalation 442 mg/m³ Effects: Local

DNEL - Workers - Short term - Inhalation 442 mg/m³ <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation 28 μg/m³ <u>Effects</u>: Local

DNEL - Workers - Long term - Inhalation 170 µg/m³ <u>Effects</u>: Local

DNEL - General population - Long term - Inhalation 55 mg/m³ Effects: Local

DNEL - Workers - Long term - Inhalation 310 mg/m³ Effects: Local

DMEL - Workers - Long term - Inhalation 442 mg/m³ Effects: Local

DMEL - Workers - Short term - Inhalation 884 mg/m³ Effects: Systemic

DNEL - General population - Long term - Oral 1.6 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation 15 mg/m³ <u>Effects</u>: Systemic

DNEL - Workers - Long term - Inhalation 77 mg/m³ <u>Effects</u>: Systemic

DNEL - Workers - Long term - Dermal 180 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - Workers - Short term - Inhalation 293 mg/m³ Effects: Local

DNEL - General population - Long term - Oral 1.5625 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Dermal 3.125 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation 55.357 mg/m³ <u>Effects</u>: Systemic

Butan-1-ol

titanium dioxide

iso-butanol

Ethylbenzene

	DNEL - General population - Long term - Inhalation 155 mg/m ³ <u>Effects</u> : Local
	DNEL - Workers - Long term - Inhalation 310 mg/m³ <u>Effects</u> : Local
Phenol	DNEL - General population - Long term - Inhalation 0.452 mg/m ³ <u>Effects</u> : Systemic
	DNEL - General population - Long term - Oral 0.5 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Dermal 0.5 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Dermal 1.23 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Inhalation 8 mg/m ³ <u>Effects</u> : Systemic
	DNEL - Workers - Short term - Inhalation 16 mg/m³ <u>Effects</u> : Local
Fatty acids, tall-oil, compds. with oleylamine	DNEL - General population - Long term - Oral 0.012 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Dermal 0.012 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Dermal 0.024 mg/kg bw/day <u>Effects</u> : Systemic
Formaldehyde	DNEL - General population - Long term - Dermal 12 μg/cm² <u>Effects</u> : Local
	DNEL - Workers - Long term - Dermal 37 μg/cm² <u>Effects</u> : Local
	DNEL - General population - Long term - Inhalation 0.1 mg/m ³ <u>Effects</u> : Local
	DNEL - Workers - Long term - Inhalation 0.375 mg/m ³ <u>Effects</u> : Local
	DNEL - Workers - Short term - Inhalation 0.75 mg/m³ <u>Effects</u> : Local
	DNEL - General population - Long term - Inhalation 3.2 mg/m ³
Correct of issue/Date of revision : 24/04/2025 Date of Revision :	te of previous issue : 05/09/2022 Version : 2 Label No : 1758

SECTION 8: Exposure controls/personal protection

Effects: Systemic

DNEL - General population - Long term - Oral 4.1 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - Workers - Long term - Inhalation 9 mg/m³ <u>Effects</u>: Systemic

DNEL - General population - Long term - Dermal 102 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - Workers - Long term - Dermal 240 mg/kg bw/day <u>Effects</u>: Systemic

PNECs

Not available.

8.2 Exposure controls			
Appropriate engineering controls	:	ventilation or other engineering of contaminants below any recomm	on. Use process enclosures, local exhaust controls to keep worker exposure to airborne nended or statutory limits. The engineering vapour or dust concentrations below any lower proof ventilation equipment.
Individual protection measu	ires		
Hygiene measures	:	before eating, smoking and using Appropriate techniques should b Contaminated work clothing sho	thoroughly after handling chemical products, g the lavatory and at the end of the working period. e used to remove potentially contaminated clothing. uld not be allowed out of the workplace. Wash using. Ensure that eyewash stations and safety ation location.
Eye/face protection	:	assessment indicates this is nec gases or dusts. If contact is pos unless the assessment indicates	In approved standard should be used when a risk essary to avoid exposure to liquid splashes, mists, sible, the following protection should be worn, a higher degree of protection: chemical splash nalation hazards exist, a full-face respirator may be
Skin protection			
Hand protection	:	be worn at all times when handlin this is necessary. Considering the check during use that the gloves should be noted that the time to different for different glove manual	loves complying with an approved standard should ng chemical products if a risk assessment indicates ne parameters specified by the glove manufacturer, are still retaining their protective properties. It breakthrough for any glove material may be facturers. In the case of mixtures, consisting of on time of the gloves cannot be accurately
		Recommendations : Wear suita	able gloves tested to EN374.
		< 1 hour (breakthrough time):	Nitrile gloves. thickness > 0.3 mm
		1 - 4 hours (breakthrough time):	polyvinyl alcohol (PVA) thickness > 0.3 mm or 4H / Silver Shield® gloves.
		> 8 hours (breakthrough time):	Viton® thickness > 0.3 mm gloves
		Wash hands before breaks and	immediately after handling the product.

SECTION 8: Exposure controls/personal protection

•	
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.
: Various
: Slight
: Not available.
: Not available.
1 C

	Ingredient name	°C	°F	Method
	Propan-2-ol	83	181.4	
	water	100	212	
F	lammability · Not ava	ilable	Γ	

r lannability	
Lower and upper explosion limit	: Cower: 0.8% (xylene) Upper: 12% (Isopropyl alcohol)
mm	
Flash point	: Closed cup: 6°C (42.8°F)

ŝ

Auto-ignition temperature

Ingredient name		°C	°F	Method			
<mark>₿u</mark> tan-1-ol		355	671	EU A.15			
iso-butanol		415	779				
Decomposition temperature	: Not ava	ilable.					
рН	: Not app	licable.					
Viscosity	: Kinema	tic (40°C): >20.5 n	nm²/s				
Solubility(ies)	:						
Not available.							
Solubility in water	: Not ava	ilable.					
Partition coefficient: n-octanol/ water	: Not app	licable.					
Vapour pressure	:						
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SECTION 9: Physica	l and ch	emical	properties			
	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Propan-2-ol	33.00268	4.4				
water	17.5	2.3				
Relative density	: Not	available.				i
Density	: 1 g/	cm³				
Vapour density	: Not	available.				
Particle characteristics						
Median particle size	: Not	applicable.				
9.2 Other information						
9.2.1 Information with regar	rd to physic	al hazard	classes			
Explosive properties	: Not	available.				
Oxidising properties	: Not	available.				
9.2.2 Other safety character	ristics					
Not applicable.						
SECTION 10: Stabilit	ty and re	activity	1			
0.1 Reactivity	: No spec	cific test da	ta related to react	ivity available fo	or this produ	ict or its ingredients
0.2 Chemical stability	: The pro	duct is stat	ole.			
10.3 Possibility of nazardous reactions	: Under r	normal cond	ditions of storage a	and use, hazard	lous reactio	ons will not occur.
10.4 Conditions to avoid			sources of ignition grind or expose o			pressurise, cut, weld es of ignition.
10.5 Incompatible materials		e or incom _l g materials	patible with the fol	lowing materials	5:	
10.6 Hazardous decomposition products		normal cond not be prod		and use, hazarc	lous decom	position products
SECTION 11: Toxico	logical i	nformat	tion			
11.1 Information on hazard c	lasses as d	lefined in F	Regulation (EC) I	No 1272/2008		
Acute toxicity						
Product/ingredient name			Result			
₽ropan-2-ol			Rabbit - Derm 12800 mg/kg	al - LD50		
			Rat - Oral - LD 5000 mg/kg <u>Toxic effects</u> : E	9 50 3ehavioral - Ger	neral anestl	netic
Xylene			Rat - Oral - LD 4300 mg/kg	950		

4300 mg/kg <u>Toxic effects</u>: Liver - Other changes Kidney, Ureter, and Bladder - Other changes

Rat - Inhalation - LC50 Vapour 21.7 mg/l [4 hours]

Rat - Oral - LD50 2460 mg/kg

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iso-butanol

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SECTION 11: Toxicological information			
	Rabbit - Dermal - LD50 3400 mg/kg		
	Rat - Inhalation - LC50 Vapour 19200 mg/m³ [4 hours]		
Ethylbenzene	Rat - Oral - LD50 3500 mg/kg		
	Rabbit - Dermal - LD50 15400 mg/kg		
	Rat - Inhalation - LC50 Dusts and mists 29000 mg/l [4 hours]		
Urea-formaldehyde-polymer	Rat - Oral - LD50 >5 g/kg <u>Toxic effects</u> : Olfaction - Other changes Behavioral - Somnolence (general depressed activity) Behavioral - Food intake (animal)		
	Rabbit - Dermal - LD50 >5 g/kg <u>Toxic effects</u> : Skin After systemic exposure - Dermatitis, other		
Butan-1-ol	Rat - Oral - LD50 790 mg/kg <u>Toxic effects</u> : Liver - Fatty liver degeneration Kidney, Ureter, and Bladder - Other changes Blood - Other changes		
	Rabbit - Dermal - LD50 3400 mg/kg		
	Rat - Inhalation - LC50 Vapour 24000 mg/m ³ [4 hours]		
Phenol	Rat - Oral - LD50 317 mg/kg <u>Toxic effects</u> : Behavioral - Convulsions or effect on seizure threshold		
	Rat - Dermal - LD50 669 mg/kg <u>Toxic effects</u> : Behavioral - Tremor Kidney, Ureter, and Bladder - Hematuria Skin After topical exposure - Cutaneous sensitization (experimental)		
	Rabbit - Dermal - LD50 630 mg/kg		
	Rat - Inhalation - LC50 Vapour 316 mg/m³ [4 hours]		
Formaldehyde	Rat - Oral - LD50 100 mg/kg		
	Rabbit - Dermal - LD50 270 mg/kg		
	Rat - Inhalation - LC50 Gas. 250 ppm [4 hours]		

Conclusion/Summary [Product] : Not available.

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Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
KORRO PVB	20705.6	5848.9	N/A	46.8	N/A
Propan-2-ol	5000	12800	N/A	N/A	N/A
Xylene	4300	1100	N/A	11	N/A
iso-butanol	2460	3400	N/A	N/A	N/A
Ethylbenzene	3500	15400	N/A	11	29000
Butan-1-ol	790	3400	N/A	24	N/A
Phenol	100	630	N/A	3	N/A
Formaldehyde	100	300	700	N/A	N/A

Skin corrosion/irritation

Product/ingredient name		Result Rabbit - Skin - Mild irritant Amount/concentration applied: 500 mg			
Xylene		Rat - Skin - Mild irritant <u>Duration of treatment/exposure</u> : 8 hours <u>Amount/concentration applied</u> : 60 uL			
		Rabbit - Skin - Moderate irritant <u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 500 mg			
		Rabbit - Skin - Moderate irritant <u>Amount/concentration applied</u> : 100 %			
titanium dioxide		Human - Skin - Mild irritant Duration of treatment/exposure: 72 hours Amount/concentration applied: 300 ug l			
Ethylbenzene		Rabbit - Skin - Mild irritant <u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 15 mg			
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin		Rabbit - Skin - Moderate irritant <u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 500 uL			
		Rabbit - Skin - Severe irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 2 mg			
Butan-1-ol		Rabbit - Skin - Moderate irritant <u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 20 mg			
Phenol		Pig - Skin - Severe irritant <u>Duration of treatment/exposure</u> : 0.5 minutes <u>Amount/concentration applied</u> : 400 uL	5		
		Rabbit - Skin - Mild irritant Amount/concentration applied: 100 mg			
		Rabbit - Skin - Severe irritant Amount/concentration applied: 535 mg			
Zinc oxide		Rabbit - Skin - Mild irritant <u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 500 mg			
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SECTION 11: Toxicological information		
Formaldehyde	Human - Skin - Mild irritant Duration of treatment/exposure: 72 hours Amount/concentration applied: 150 ug l	
	Human - Skin - Severe irritant Amount/concentration applied: 0.01 %	
	Rabbit - Skin - Mild irritant Amount/concentration applied: 540 mg	
	Rabbit - Skin - Moderate irritant <u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 50 mg	
	Rabbit - Skin - Severe irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 2 mg	
	Rabbit - Skin - Severe irritant Amount/concentration applied: 0.8 %	
	Mouse - Skin - Moderate irritant Amount/concentration applied: 7 %	
	Rat - Skin - Moderate irritant Amount/concentration applied: 7 %	
Conclusion/Summary [Product] : No	ot available.	
Serious eye damage/eye irritation Product/ingredient name	Result	
Propan-2-ol	Rabbit - Eyes - Moderate irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 mg	
	Rabbit - Eyes - Moderate irritant Amount/concentration applied: 10 mg	
	Rabbit - Eyes - Severe irritant Amount/concentration applied: 100 mg	
Xylene	Rabbit - Eyes - Mild irritant Amount/concentration applied: 87 mg	
	Rabbit - Eyes - Severe irritant <u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 5 mg	
Ethylbenzene	Rabbit - Eyes - Severe irritant Amount/concentration applied: 500 mg	
Urea-formaldehyde-polymer	Rabbit - Eyes - Severe irritant <u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 100 uL	
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	Rabbit - Eyes - Mild irritant Amount/concentration applied: 100 mg	
Butan-1-ol	Rabbit - Eyes - Severe irritant <u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 2 mg	
	Rabbit - Eyes - Severe irritant	

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Amount/concentration applied: 0.005 MI

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	Rabbit - Eyes - Severe irritant Amount/concentration applied: 1.62 mg
Phenol	Rabbit - Eyes - Mild irritant <u>Duration of treatment/exposure</u> : 0.5 minutes <u>Amount/concentration applied</u> : 5 mg
	Rabbit - Eyes - Severe irritant Amount/concentration applied: 5 mg
Zinc oxide	Rabbit - Eyes - Mild irritant <u>Duration of treatment/exposure</u> : 24 hours <u>Amount/concentration applied</u> : 500 mg
Formaldehyde	Human - Eyes - Mild irritant Duration of treatment/exposure: 6 minutes Amount/concentration applied: 1 ppm
	Rabbit - Eyes - Severe irritant Duration of treatment/exposure: 24 hours Amount/concentration applied: 750 ug
	Rabbit - Eyes - Severe irritant Amount/concentration applied: 750 ug
	Rabbit - Eyes - Severe irritant Amount/concentration applied: 37 %
	Rabbit - Eyes - Severe irritant Amount/concentration applied: 10 mg
	Mouse - Eyes - Moderate irritant Amount/concentration applied: 3 %
Conclusion/Summary [Product] : Not av	ailable.
Respiratory corrosion/irritation Not available.	
Conclusion/Summary [Product] : Not av	ailable.
Respiratory or skin sensitization Not available.	
Skin Conclusion/Summary [Product] : Not av	ailable.
Respiratory Conclusion/Summary [Product] : Not av	ailable.
Germ cell mutagenicity Not available.	
Conclusion/Summary [Product] : Not av	ailahle

Conclusion/Summary [Product] : Not available.

Carcinogenicity

It has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung. Not available.

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Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
₽ropan-2-ol	STOT SE 3, H336 (Narcotic effects)
Xylene	STOT SE 3, H335 (Respiratory tract irritation)
iso-butanol	STOT SE 3, H335 (Respiratory tract irritation)
	STOT SE 3, H336 (Narcotic effects)
Butan-1-ol	STOT SE 3, H335 (Respiratory tract irritation)
	STOT SE 3, H336 (Narcotic effects)
Formaldehyde	STOT SE 3, H335 (Respiratory tract irritation)

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
⊠ ylene	STOT RE 2, H373 (oral, inhalation)
Ethylbenzene	STOT RE 2, H373 (hearing organs) (oral, inhalation)
Phenol	STOT RE 2, H373
Fatty acids, tall-oil, compds. with oleylamine	STOT RE 2, H373

Aspiration hazard

Product/ingredient name	Result
Xylene Ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely routes	<u>of exposure</u>
Not available.	
Potential acute health effect	t <u>s</u>
Eye contact	: Causes serious eye damage.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: Can cause central nervous system (CNS) depression.
Symptoms related to the ph	ysical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
Delayed and immediate effe	cts as well as chronic effects from short and long-term exposure

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Short term exposure	
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 effe	<u>xts</u>
Not available.	
Conclusion/Summary [Pro	luct] : Not available.
General	: May cause damage to organs through prolonged or repeated exposure. 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.
Reproductive toxicity	: No known significant effects or critical hazards.

11.2 Information on other hazards

Not available.

: The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity	
Product/ingredient name ₱ropan-2-ol	Result Acute - LC50 - Marine water Crustaceans - Common shrimp, sand shrimp - <i>Crangon</i> <i>crangon</i> 1400000 μg/l [48 hours] <u>Effect</u> : Mortality
	Acute - LC50 - Fresh water Fish - Harlequinfish, red rasbora - <i>Rasbora heteromorpha</i> <u>Size</u> : 1 to 3 cm 4200000 μg/l [96 hours] <u>Effect</u> : Mortality
titanium dioxide	Acute - LC50 - Marine water Fish - Mummichog - <i>Fundulus heteroclitus</i> >1000000 μg/l [96 hours] <u>Effect</u> : Mortality
	Acute - LC50 - Fresh water Crustaceans - Water flea - <i>Ceriodaphnia dubia</i> - Neonate <u>Age</u> : <24 hours 3 mg/l [48 hours] <u>Effect</u> : Mortality
iso-butanol	Acute - LC50 - Fresh water Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> <u>Weight</u> : 1.67 g 1330000 μg/l [96 hours] <u>Effect</u> : Mortality

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SECTION 12: Ecological information				
	Acute - LC50 - Marine water Crustaceans - Brine shrimp - <i>Artemia salina</i> 600 mg/l [48 hours] <u>Effect</u> : Mortality			
Trizinc bis(orthophosphate)	Acute - EC50 Crustaceans - <i>Ceriodaphnia dubia</i> 0.96 mg/l [48 hours]			
	Acute - EC50 Algae - <i>Selenastrum capricornutum</i> 0.32 mg/l [72 hours]			
Butan-1-ol	Acute - LC50 - Fresh water Fish - Fathead minnow - <i>Pimephales promelas</i> <u>Age</u> : 33 days; <u>Size</u> : 20.6 mm; <u>Weight</u> : 0.119 g 1730000 μg/l [96 hours] <u>Effect</u> : Mortality			
	Acute - EC50 - Fresh water Daphnia - Water flea - <i>Daphnia magna</i> <u>Age</u> : 6 to 24 hours 1983000 μg/l [48 hours] <u>Effect</u> : Intoxication			
Phenol	Acute - LC50 - Fresh water Fish - common carp - <i>Cyprinus carpio</i> - Larvae <u>Size</u> : 8 mm 1.75 μg/l [96 hours] <u>Effect</u> : Mortality			
	Acute - LC50 - Marine water Crustaceans - Opossum shrimp - <i>Archaeomysis kokuboi</i> - Juvenile (Fledgling, Hatchling, Weanling) 800 μg/l [48 hours] <u>Effect</u> : Mortality			
	Chronic - NOEC - Fresh water Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> 118 μg/l [90 days] <u>Effect</u> : Mortality			
	Acute - EC50 - Fresh water Algae - Green algae - <i>Pseudokirchneriella subcapitata</i> <u>Age</u> : 4 to 7 days 61.1 μg/l [96 hours] <u>Effect</u> : Population			
	Chronic - NOEC - Fresh water Daphnia - Water flea - <i>Daphnia magna</i> <u>Age</u> : <24 hours 1.5 mg/l [21 days] <u>Effect</u> : Reproduction			
	Chronic - NOEC - Marine water Algae - Neptune's Necklace - <i>Hormosira banksii</i> - Gamete 16 μg/l [72 hours] <u>Effect</u> : Development			
Zinc oxide	Acute - LC50 - Fresh water Daphnia - Water flea - <i>Daphnia magna</i> - Neonate <u>Age</u> : <24 hours 98 μg/l [48 hours] <u>Effect</u> : Mortality			

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	Acute - IC50 - Fresh water Algae - Green algae - <i>Pseudokirchneriella subcapitata</i> - Exponential growth phase 46 μg/l [72 hours] <u>Effect</u> : Population
	Acute - LC50 - Fresh water US EPA Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> <u>Weight</u> : 0.78 g 1.1 ppm [96 hours] <u>Effect</u> : Mortality
Formaldehyde	Acute - EC50 - Fresh water Daphnia - Water flea - <i>Daphnia pulex</i> - Neonate <u>Age</u> : <24 hours 5800 μg/l [48 hours] <u>Effect</u> : Intoxication
	Acute - EC50 - Marine water Algae - Green algae - <i>Ulva pertusa</i> 0.788 mg/l [96 hours] <u>Effect</u> : Reproduction
	Acute - LC50 - Fresh water US EPA Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> 1.41 ppm [96 hours] <u>Effect</u> : Mortality
	Chronic - NOEC - Fresh water Fish - Chinook salmon - <i>Oncorhynchus tshawytscha</i> - Egg 953.9 ppm [43 days] <u>Effect</u> : Mortality
	Chronic - NOEC - Marine water Algae - Haptophyte - <i>Isochrysis galbana</i> - Exponential growth phase <u>Age</u> : 4 to 5 days 0.005 mg/l [96 hours] <u>Effect</u> : Population
Conclusion/Summary [Product] :	Not available.
12.2 Persistence and degradability	
Product/ingredient name	Result

iso-butanol

74% [28 days] - Readily

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<mark>is</mark> o-butanol	-	-	Readily

12.3 Bioaccumulative potential

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Product/ingredient name	LogPow	BCF	Potential	
Propan-2-ol	0.05	-	Low	
Xylene	3.12	8.1 to 25.9	Low	
iso-butanol	1	-	Low	
Trizinc bis(orthophosphate)	-	60960	High	
Ethylbenzene	3.6	-	Low	
reaction product: bisphenol-	2.64 to 3.78	31	Low	
A-(epichlorhydrin); epoxy				
resin				
Butan-1-ol	1	-	Low	
Phenol	1.47	647	High	
Zinc oxide	-	28960	High	

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Кос
▶ropan-2-ol	0.54	3.4364
iso-butanol	1.08	12.0246
Ethylbenzene	2.23	170.406
Butan-1-ol	0.51	3.22078
Phenol	1.43	27.0339

Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	М	Т	vPvM	vP	٧M
Propan-2-ol	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
titanium dioxide	No	No	No	No	No	No	No
iso-butanol	No	No	No	No	No	No	No
Trizinc bis(orthophosphate)	No	No	No	No	No	No	No
Ethylbenzene	No	No	No	No	No	No	No
Urea-formaldehyde-polymer	No	No	No	No	No	No	No
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	No	No	No	No	No	No	No
Butan-1-ol	No	No	No	No	No	No	No
Phenol	No	No	No	No	No	No	No
Zinc oxide	No	No	No	No	No	No	No
Fatty acids, tall-oil, compds. with oleylamine	No	No	No	No	No	No	No
Formaldehyde	No	No	No	No	No	No	No
Mobility	: Not av	ailable.					

Conclusion/Summary

: Not available.

: The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
✓ropan-2-ol	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
titanium dioxide	No	No	No	No	No	No	No
iso-butanol	No	No	No	No	No	No	No
Trizinc bis(orthophosphate)	No	No	No	No	No	No	No
Ethylbenzene	No	No	No	No	No	No	No
Urea-formaldehyde-polymer	No	No	No	No	No	No	No
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	No	No	No	No	No	No	No
Butan-1-ol	No	No	No	No	No	No	No
Phenol	No	No	No	No	No	No	No
Zinc oxide	No	No	No	No	No	No	No
Fatty acids, tall-oil, compds.	No	No	No	No	No	No	No
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with oleylamine Formaldehyde	No	No	No	No	No	No	No
Regulation (EC) No. 1272/20	08 [CLP]						
Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
Propan-2-ol	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
titanium dioxide	No	No	No	No	No	No	No
iso-butanol	No	No	No	No	No	No	No
Trizinc bis(orthophosphate)	No	No	No	No	No	No	No
Ethylbenzene	No	No	No	No	No	No	No
Urea-formaldehyde-polymer	No	No	No	No	No	No	No
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	No	No	No	No	No	No	No
Butan-1-ol	No	No	No	No	No	No	No
Phenol	No	No	No	No	No	No	No
Zinc oxide	No	No	No	No	No	No	No
Fatty acids, tall-oil, compds. with oleylamine	No	No	No	No	No	No	No
Formaldehyde	No	No	No	No	No	No	No

Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP] : The product does not meet the criteria to be considered as a PBT or vPvB.

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product]

: The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment metho	ds
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.
European waste catalogue (EWC)	: 080111*, 200127*
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.

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	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)			3	
14.4 Packing group	11	11	11	11
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
ADR/RID ADN	sizes of <u>Specia</u> <u>Tunnel</u> : The env	^r ≤5 L or ≤5 kg. <u>I provisions</u> 640 (C) <u>code</u> (D/E) vironmentally hazardous		required when transported ir required when transported ir
		⁻ ≤5 L or ≤5 kg. I provisions 640 (C)		
IMDG	: The ma	rine pollutant mark is n	ot required when transpo	orted in sizes of ≤5 L or ≤5 k
ΙΑΤΑ		vironmentally hazardous rtation regulations.	s substance mark may a	ppear if required by other
I4.6 Special precau user	upright		t persons transporting th	n closed containers that are ne product know what to do
14.7 Maritime trans bulk according to I		evant/applicable due to	nature of the product.	

instruments

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

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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]
KORRO PVB	≥90	3
Formaldehyde	<0.1	72

Labelling

Other EU regulations

S

SECTION 15: Regulat	ory information
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
Explosive precursors	: Not applicable.
Ozone depleting substance	<u>s (EU 2024/590)</u>
Not listed.	
Prior Informed Consent (PIC Not listed.	C) (649/2012/EU)
Persistent Organic Pollutan Not listed.	<u>ts</u>
Seveso Directive	
This product is controlled und	er the Seveso Directive.
Danger criteria	
Category	
₽5c E2	
International regulations	

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention 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: Other information

Indicates information that has changed from previously issued version.		
Abbreviations and	: ATE = Acute Toxicity Estimate	
acronyms	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 Pogulation (EC) No. 1272/2008 [CL P/GHS]	

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

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SECTION 16: Other information		
Classification	Justification	
Flam. Liq. 2, H225	On basis of test data	
Skin Irrit. 2, H315	Calculation method	
Eye Dam. 1, H318	Calculation method	
Skin Sens. 1, H317	Calculation method	
STOT SE 3, H335	Calculation method	
STOT SE 3, H336	Calculation method	
STOT RE 2, H373	Calculation method	
Aquatic Chronic 2, H411	Calculation method	

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Full text of classifications [CLP/GHS]

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 1B	CARCINOGENICITY - Category 1B
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - 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
Muta. 2	GERM CELL MUTAGENICITY - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
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
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SECTION 16: Other information

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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