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

SAFETY DATA SHEET



TEKNOROAD 280 - All variants

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

1.1 Product identifier
Product name

: TEKNOROAD 280 - 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

 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]

Fam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373

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.

H336 - May cause drowsiness or dizziness.

H361d - Suspected of damaging the unborn child.

H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

SECTION 2: Hazards identification

Prevention	:	 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. P260 - Do not breathe vapour.
Response	:	P314 - Get medical advice/attention if you feel unwell.
Storage	:	₱403 + 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: Toluene and Ethyl acetate
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
Voluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≥10 - ≤25	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]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≤10	Carc. 2, H351 (inhalation)	-	[1] [*]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤6.5	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]
Ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≤3	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
Ethylbenzene	REACH #:	≤3	Flam. Liq. 2, H225	ATE [Inhalation	[1] [2]
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SECTION 3: Composition/information on ingredients				
01-21194893 EC: 202-849 CAS: 100-41 Index: 601-0	-4 -4	Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304 See Section 16 for the full text of the H statements declared above.	(vapours)] = 11 mg/	

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	: 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.	
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. 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.	
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.	
4.2 Most important symptoms and effects, both acute and delayed		
Over-exposure signs/symp	toms	

Eye contact	: Adverse symptoms may include the following: pain or irritation
	watering redness

SECTION 4: First aid measures

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 immediate medical attention and special treatment needed

Specific treatments	: No specific treatment.	
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 	

SECTION 5: Firefighting 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.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide 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.
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 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.

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SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
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	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). 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 breathe vapour or mist. Do not ingest. 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.
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

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SECTION 7: Handling and storage

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	

7.3 Specific end use(s)

: Not available.

Recommendations : Not available. Industrial sector specific solutions

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		
Voluene	NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 50 ppm. OELV 8 hours: 192 mg/m ³ . OELV 15 minutes: 100 ppm. OELV 15 minutes: 384 mg/m ³ .		
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. 		
Ethyl acetate	 NAOSH (Ireland, 4/2024) Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 200 ppm. OELV 15 minutes: 400 ppm. OELV 15 minutes: 1468 mg/m³. OELV 8 hours: 734 mg/m³. 		
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. 		

Biological exposure indices

Product/ingredient	t name	Exposure indices		
Voluene		NAOSH (Ireland, 1/2011) BMGV: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases. BMGV: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases. BMGV: 0.02 mg/l, toluene [in blood]. Sampling time: prior to last shift 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	Deferrence cha	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.		
Recommended monitoring procedures	European Stan assessment of values and me atmospheres - of exposure to (Workplace atr for the measure	uld be made to monitoring standards, such as the following: dard EN 689 (Workplace atmospheres - Guidance for the exposure by inhalation to chemical agents for comparison with limit asurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 nospheres - General requirements for the performance of procedure ement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be		
DNELs/DMELs				
Product/ingredient name		Result DNEL - General population - Long term - Oral 8.13 mg/kg bw/day <u>Effects</u> : Systemic		
		DNEL - General population - Long term - Inhalation 56.5 mg/m³ <u>Effects</u> : Local		
		DNEL - General population - Long term - Inhalation 56.5 mg/m ³ <u>Effects</u> : Systemic		
		DNEL - Workers - Long term - Inhalation 192 mg/m³ <u>Effects</u> : Local		
		DNEL - Workers - Long term - Inhalation 192 mg/m³ <u>Effects</u> : Systemic		

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SECTION 8: Exposure co	ontrols/personal protection
	DNEL - General population - Long term - Dermal 226 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Short term - Inhalation 226 mg/m³ <u>Effects</u> : Local
	DNEL - General population - Short term - Inhalation 226 mg/m ³ <u>Effects</u> : Systemic
	DNEL - Workers - Long term - Dermal 384 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - Workers - Short term - Inhalation 384 mg/m³ <u>Effects</u> : Local
	DNEL - Workers - Short term - Inhalation 384 mg/m³ <u>Effects</u> : Systemic
titanium dioxide	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
Xylene	DNEL - General population - Long term - Oral 5 mg/kg bw/day <u>Effects</u> : Systemic
	DNEL - General population - Long term - Inhalation 65.3 mg/m ³ <u>Effects</u> : Local
	DNEL - General population - Long term - Inhalation 65.3 mg/m ³ <u>Effects</u> : 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/m³ <u>Effects</u> : Local
	DNEL - Workers - Long term - Inhalation 221 mg/m ³ Effects: Systemic
	DNEL - General population - Short term - Inhalation 260 mg/m ³ Effects: Local
	DNEL - General population - Short term - Inhalation 260 mg/m ³
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Ethyl acetate

Effects: Systemic

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

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

DNEL - General population - Long term - Oral 4.5 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Dermal 37 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - Workers - Long term - Dermal 63 mg/kg bw/day <u>Effects</u>: Systemic

DNEL - General population - Long term - Inhalation 367 mg/m³ Effects: Local

DNEL - General population - Long term - Inhalation 367 mg/m³ Effects: Systemic

DNEL - General population - Short term - Inhalation 734 mg/m³ Effects: Local

DNEL - General population - Short term - Inhalation 734 mg/m³ <u>Effects</u>: Systemic

DNEL - Workers - Long term - Inhalation 734 mg/m³ <u>Effects</u>: Local

DNEL - Workers - Long term - Inhalation 734 mg/m³ <u>Effects</u>: Systemic

DNEL - Workers - Short term - Inhalation 1468 mg/m³ <u>Effects</u>: Local

DNEL - Workers - Short term - Inhalation 1468 mg/m³ <u>Effects</u>: Systemic

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

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

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

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Ethylbenzene

SECTION 8: Exposure controls/personal protection				
	DNEL - General population - Long term - Inhalation 15 mg/m ³ Effects: 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 <u>Effects</u> : Local			
PNECs				
Not available.				
8.2 Exposure controls				
Appropriate engineering controls	Appropriate engineering : Use only with adequate ventilation. Use process enclosures, local exhaust			
Individual protection meas	<u>ires</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. 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): 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.			
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.			

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SECTION 8: Exposure controls/personal 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.
: 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
: 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

Appearance	
Physical state	: Liquid.
Colour	: Various
Odour	: Slight
Odour threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and	÷
boiling range	

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

Flammability			
Lower and upper explosion limit			

: Not available.

wer: 0.8% (xylene) Upper: 11.5% (ethyl acetate)

- **Flash point**
- : Closed cup: 6°C (42.8°F)

Auto-ignition temperature

Ingredient name	°C	°F	Method
Ethyl acetate	426.67	800	
Xylene	432	809.6	

Decomposition temperature	:	Not available.
рН	:	Not applicable.
Viscosity	÷	Kinematic (40°C): >20.5 mm²/s
Solubility(ies)	:	
Not available.		
Solubility in water	:	Not available.
Partition coefficient: n-octanol/	:	Not applicable.

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Vapour pressure

water

	Va	Vapour Pressure at 20°C		Va	Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
⊑t hyl acetate	81.59163	10.9					
Toluene	23.17	3.1					
Relative density	: Not	available.		I			

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SECTION 9: Physical and chemical properties Density : 1.6 g/cm³ Vapour density : Not available. Particle characteristics Median particle size : Not applicable. 9.2 Other information 9.2.1 Information with regard to physical hazard classes Explosive properties : Not available. Oxidising properties : Not available. 9.2.2 Other safety characteristics

Not applicable.

SECTION 10: Stability 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 clas	ses as defin	ed in Regulation (EC) N	lo 1272/2008	
Acute toxicity				
Product/ingredient name		<mark>Result</mark> Rat - Oral - LD 636 mg/kg	50	
		Rat - Inhalatio 49 g/m³ [4 hour	n - LC50 Vapour ˈs]	
Xylene		Rat - Oral - LD 4300 mg/kg <u>Toxic effects</u> : L Bladder - Other	iver - Other change	s Kidney, Ureter, and
		Rat - Inhalatio 21.7 mg/l [4 ho	n - LC50 Vapour urs]	
Ethyl acetate		Rat - Oral - LD 5620 mg/kg	50	
Ethylbenzene		Rat - Oral - LD 3500 mg/kg	50	
		Rabbit - Derm a 15400 mg/kg	al - LD50	
		Rat - Inhalatio 29000 mg/l [4 h	n - LC50 Dusts and nours]	d mists
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SECTION 11: Toxicological information

Conclusion/Summary [Product] : Not available.

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)
FEKNOROAD 280	N/A	20748.2	N/A	169.7	N/A
Toluene	N/A	N/A	N/A	49	N/A
Xylene	4300	1100	N/A	11	N/A
Ethyl acetate	5620	N/A	N/A	N/A	N/A
Ethylbenzene	3500	15400	N/A	11	29000

Skin corrosion/irritation

Product/ingredient name	Result
Voluene	Pig - Skin - Mild irritant
	Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 250 uL
	Rabbit - Skin - Mild irritant
	Amount/concentration applied: 435 mg
	Dahkit Olin Madanstainitant
	Rabbit - Skin - Moderate irritant
	Duration of treatment/exposure: 24 hours Amount/concentration applied: 20 mg
	Anouniconcentration applied. 20 mg
	Rabbit - Skin - Moderate irritant
	Amount/concentration applied: 500 mg
titanium dioxide	Human - Skin - Mild irritant
	Duration of treatment/exposure: 72 hours
	Amount/concentration applied: 300 ug l
Xylene	Rat - Skin - Mild irritant
	Duration of treatment/exposure: 8 hours
	Amount/concentration applied: 60 uL
	Rabbit - Skin - Moderate irritant
	Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 500 mg
	Rabbit - Skin - Moderate irritant
	Amount/concentration applied: 100 %
Ethylbenzene	Rabbit - Skin - Mild irritant
-	Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 15 mg
Conclusion/Summary [Product] : Not availabl	е.

Serious eye damage/eye irritation

Product/ingredient name

Result

Rabbit - Eyes - Mild irritant Duration of treatment/exposure: 0.5 minutes Amount/concentration applied: 100 mg

Rabbit - Eyes - Mild irritant Amount/concentration applied: 870 ug

Rabbit - Eyes - Severe irritant

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SECTION 11: Toxicological informat	ion
_	Duration of treatment/exposure: 24 hours Amount/concentration applied: 2 mg
	Rabbit - Eyes - Severe irritant
	Amount/concentration applied: 0.1 MI
Xylene	Rabbit - Eyes - Mild irritant Amount/concentration applied: 87 mg
	Rabbit - Eyes - Severe irritant
	Duration of treatment/exposure: 24 hours
	Amount/concentration applied: 5 mg
Ethylbenzene	Rabbit - Eyes - Severe irritant Amount/concentration applied: 500 mg
Conclusion/Summary [Product] : Not availabl	e.
Respiratory corrosion/irritation Not available.	
Conclusion/Summary [Product] : Not availabl	e.
Respiratory or skin sensitization	
Not available.	
Skin	
Conclusion/Summary [Product] : Not availabl	e.
Respiratory	
Conclusion/Summary [Product] : Not availabl	e.
Germ cell mutagenicity	
Not available.	
Conclusion/Summary [Product] : Not availabl	e.
<u>Carcinogenicity</u>	
	f this product arises when respirable dust is inhaled in quantities
leading to significant impairment of particle clearanc Not available.	e mechanisms in the lung.
Conclusion/Summary [Product] : Not availabl	e.

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
Voluene	STOT SE 3, H336 (Narcotic effects)
Xylene	STOT SE 3, H335 (Respiratory tract irritation)
Ethyl acetate	STOT SE 3, H336 (Narcotic effects)

Specific target organ toxicity (repeated exposure)

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Product/ingradiant name		Result
Product/ingredient name		STOT RE 2, H373
Xylene		STOT RE 2, H373 STOT RE 2, H373 (oral, inhalation)
Ethylbenzene		STOT RE 2, H373 (hearing organs) (oral, inhalation)
Aspiration hazard		
Product/ingredient name		Result
Toluene Xylene Ethylbenzene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely routes	of exposure	
Not available.		
Potential acute health effect	<u>ts</u>	
Eye contact	: No known sign	ificant effects or critical hazards.
Inhalation		ntral nervous system (CNS) depression. May cause drowsiness c
Skin contact	: Causes skin in	ritation.
Ingestion	: 🗭 an cause cer	ntral nervous system (CNS) depression.
		ind toxicological characteristics
Eye contact		toms may include the following:
Lyc contact	pain or irritation watering redness	
Inhalation	: Adverse sympt nausea or vom headache drowsiness/fat dizziness/vertig unconsciousne reduced foetal increase in foe skeletal malfor	igue go ess weight tal deaths
Skin contact	: Adverse sympt irritation redness reduced foetal increase in foe skeletal malfor	tal deaths
Ingestion	: Adverse sympt reduced foetal increase in foe skeletal malfor	tal deaths
Delayed and immediate effe	ects as well as chro	onic effects from short and long-term exposure
Short term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Long term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects Potential chronic health effe	: Not available. ects	
Not available.		
Conclusion/Summary [Pro	oduct] : Not avai	lable.
General	: May cause dar	mage to organs through prolonged or repeated exposure.
Carcinogenicity	: No known sign	ificant effects or critical hazards.
-	-	ificant 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.

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.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

titanium dioxide

Ethyl acetate

Product/ingredient name	•
Voluene	

Result

Acute - LC50 - Fresh water

Fish - Coho salmon,silver salmon - *Oncorhynchus kisutch* - Fry <u>Weight</u>: 1 g 5500 μg/l [96 hours] <u>Effect</u>: Mortality

Acute - EC50 - Fresh water Algae - Green algae - *Pseudokirchneriella subcapitata* 12500 µg/I [72 hours]

Effect: Growth

Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna* <u>Age</u>: ≤24 hours 1000 μg/l [21 days] <u>Effect</u>: Reproduction

Acute - EC50 - Fresh water

Daphnia - Water flea - *Daphnia magna* - Neonate <u>Age</u>: ≤24 hours 5.56 mg/l [48 hours] <u>Effect</u>: Intoxication

Acute - LC50 - Marine water

Fish - Mummichog - *Fundulus heteroclitus* >1000000 µg/l [96 hours] <u>Effect</u>: Mortality

Acute - LC50 - Fresh water

Crustaceans - Water flea - *Ceriodaphnia dubia* - Neonate <u>Age</u>: <24 hours 3 mg/l [48 hours] <u>Effect</u>: Mortality

Acute - LC50 - Fresh water

Daphnia - Water flea - *Daphnia cucullata* <u>Age</u>: 11 days 154000 µg/l [48 hours] Effect: Mortality

Acute - LC50 - Fresh water

Fish - Indian catfish - *Heteropneustes fossilis* <u>Size</u>: 14.16 cm; <u>Weight</u>: 25.54 g 212500 µg/l [96 hours] <u>Effect</u>: Mortality

Acute - EC50 - Fresh water

Algae - Green algae - Selenastrum sp.

SECTION 12: Ecological information

2500000 µg/l [96 hours]

Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna* 12 mg/l [21 days] <u>Effect</u>: Behavior

Chronic - NOEC - Fresh water

Fish - Fathead minnow - *Pimephales promelas* - Embryo <u>Age</u>: <24 hours 75.6 mg/l [32 days] <u>Effect</u>: Mortality

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Voluene	2.73	90	Low
Xylene	3.12	8.1 to 25.9	Low
Ethyl acetate	0.68	30	Low
Ethylbenzene	3.6	-	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logKoc	Кос
Voluene Ethyl acetate	2.07 1.26	117.115 18.1744
Ethylbenzene	2.23	170.406

Results of PMT and vPvM assessment

Product/ingredient name	PMT	Р	Μ	Т	vPvM	vP	٧M
Voluene	No	No	No	No	No	No	No
titanium dioxide	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
Ethyl acetate	No	No	No	No	No	No	No
Ethylbenzene	No	No	No	No	No	No	No

Mobility

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
Voluene	No	No	No	No	No	No	No
titanium dioxide	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
Ethyl acetate	No	No	No	No	No	No	No
Ethylbenzene	No	No	No	No	No	No	No

Regulation (EC) No. 1272/2008 [CLP]

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Product/ingredient name	PBT	Р	В	т	vPvB	vP	vB
7 oluene	No	No	No	No	No	No	No
titanium dioxide	No	No	No	No	No	No	No
Xylene	No	No	No	No	No	No	No
Ethyl acetate	No	No	No	No	No	No	No
Ethylbenzene	No	No	No	No	No	No	No

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

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 methods	5
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.

SECTION 14: Transport information

	•			
	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	3	3	3
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SECTION 14:	Transp	ort infor	mation				
14.4 Packing group					111		
14.5 Environmental hazards	No.		No.	No.	No.		
Additional information	ation		•	ł			
ADR/RID		packagir		on This class 3 viscous I according to 2.2.3.1.5.1.	iquid is not subject to regulation in		
ADN				on This class 3 viscous I according to 2.2.3.1.5.1.	iquid is not subject to regulation in		
IMDG				on This class 3 viscous I according to 2.3.2.5.	iquid is not subject to regulation in		
user up		upright a	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.				
14.7 Maritime trans bulk according to instruments		: Not relev	vant/applicable c	lue to nature of the prod	uct.		

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]		
FEKNOROAD 280 Toluene		≥90 ≥10 - ≤25	3 48		
Labelling	:				
Other EU regulations					
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed				
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed				
Explosive precursors	: Not applicab	le.			
Ozone depleting substance	es (EU 2024/590	<u>))</u>			
Not listed.					
Prior Informed Consent (PI Not listed.	<u>C) (649/2012/EU</u>	(ר			
Persistent Organic Pollutar Not listed.	<u>its</u>				
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SECTION 15: Regulatory information

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

₽5c

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

Classification	Justification
Fam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
Repr. 2, H361d	Calculation method
STOT SE 3, H336	Calculation method
STOT RE 2, H373	Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

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SECTION 16: O	SECTION 16: Other information						
EUH066 Rep	eated exposure may cause skin dryness or cracking.						
Full text of classificat	ions [CLP/GHS]						
Acute Tox. 4 Asp. Tox. 1 Carc. 2 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 2 Skin Irrit. 2 STOT RE 2 STOT SE 3	ACUTE TOXICITY - Category 4 ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 REPRODUCTIVE TOXICITY - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3						
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Notice to reader

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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