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

SAFETY DATA SHEET



TEKNOCOAT 1633-03

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

1.1 Product identifier Product name

: TEKNOCOAT 1633-03

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 Ireland Limited, 52 Ballymoughan Road, Magherafelt, BT45 6HN, UK. Tel. +44 (0) 2879 301 472.

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : NHS: 111

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. 3, H226 Eye Dam. 1, H318 STOT SE 3, H336

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

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

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

2.2 Label elements

Hazard pictograms



Signal word	Danger
Hazard statements	H226 - Flammable liquid and vapour. H318 - Causes serious eye damage. H336 - May cause drowsiness or dizziness.
Precautionary statements	
Prevention	P280 - Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response	P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

Date of issue/Date of revision	: 30/01/2024	Date of previous issue	: No previous validation	Version :	:1 1/19
TEKNOCOAT 1633-03				Label No :7	71911

SECTION 2: Hazards identification

Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	Contains: n-Butyl acetate and Butan-1-ol
Supplemental label elements	:	Contains Formaldehyde and Maleic anhydride. May produce an allergic reaction. 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	:	None known.

Other hazards which do not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≥10 - ≤25	Carc. 2, H351 (inhalation)	-	[1] [*]
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Urea-formaldehyde-polymer	CAS: 68002-18-6	≤10	Aquatic Chronic 4, H413	-	[1]
Urea, polymer with formaldehyde, butylated	CAS: 68002-19-7	≤10	Aquatic Chronic 4, H413	-	[1]
Butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	<10	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]
Ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≤3	Flam. Liq. 2, H225 Eye Irrit. 2, H319	-	[1] [2]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	<1	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
Date of issue/Date of revision	: 30/01/2024 Date	e of previous is	sue : No previous valio	dation Version :1	2/19
TEKNOCOAT 1633-03				Label No :719	11

SECTION 3: Comp	position/informat	ion on in	gredients		
			STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304		
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤0.3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
propylidynetrimethanol	REACH #: 01-2119486799-10 EC: 201-074-9 CAS: 77-99-6	≤0.3	Repr. 2, H361fd	-	[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, H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (gases)] = 700 ppm Skin Corr. 1B, H314: C \geq 25% Skin Irrit. 2, H315: 5% \leq C $<$ 25% Eye Dam. 1, H318: C \geq 25% Eye Irrit. 2, H319: 5% \leq C $<$ 25% Skin Sens. 1, H317: C \geq 0.2% STOT SE 3, H335: C \geq 5%	[1] [2]
Maleic anhydride	REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9	<0.001	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372 (respiratory system) (inhalation) EUH071 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 400 mg/kg Skin Sens. 1, H317: C ≥ 0.001%	[1] [2]

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 n	sures	
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 minute. 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 mass 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 t 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. Flush contaminated skin with plenty of 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. 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 th 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 treate 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.	I
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	•

4.2 Most important symptoms and effects, both acute and delayed

<u>Over-exposure signs/syn</u>	nptoms
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: 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 imme	diate 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.
Date of issue/Date of revision TEKNOCOAT 1633-03	: 30/01/2024 Date of previous issue : No previous validation Version : 1 4/19 Label No :71911

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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 f	the substance or mixture			
Hazards from the substance or mixture	Flammable liquid and vapour. Runoff to sewer may create fire or explosion h In a fire or if heated, a pressure increase will occur and the container may bur the risk of a subsequent explosion.			
Hazardous combustion products	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds 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 in- 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 in 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 pressu mode. Clothing for fire-fighters (including helmets, protective boots and glove conforming to European standard EN 469 will provide a basic level of protecti chemical incidents.	re es)		

SECTION 6: Accidental release measures

6.1 Personal precautions, protective 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. 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).
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. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

Date of issue/Date of revision	: 30/01/2024	Date of previous issue	: No previous validation	Version	:1	5/19
TEKNOCOAT 1633-03				Label No :	71911	

SECTION 6: Accidental release measures

6.4 Reference to other	: See Section 1 for emergency contact information.
sections	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). 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

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

Seveso Directive - Reporting thresholds

Danger criteria

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

7.3 Specific end use(s)

Recommendations : Not available. Industrial sector specific solutions

: Not available.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
n-Butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 966 mg/m ³ 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 724 mg/m ³ 8 hours.
	TWA: 150 ppm 8 hours.
Butan-1-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 154 mg/m ³ 15 minutes.
	STEL: 50 ppm 15 minutes.
Ethanol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 1000 ppm 8 hours.
	TWA: 1920 mg/m ³ 8 hours.
Xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,
5	p- or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
Ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
,	through skin.
	STEL: 552 mg/m ³ 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m ³ 8 hours.
Formaldehyde	EH40/2005 WELs (United Kingdom (UK), 1/2020).
,	STEL: 2.5 mg/m ³ 15 minutes.
	STEL: 2 ppm 15 minutes.
	TWA: 2 ppm 8 hours.
	TWA: 2.5 mg/m ³ 8 hours.
Maleic anhydride	EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation
2	sensitiser.
	STEL: 3 mg/m ³ 15 minutes.
	TWA: 1 mg/m ³ 8 hours.

Biological exposure indices

Product/ingredient name	Exposure indices	
-	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-, m-, p- or mixed isomers] BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.	
procedures European Stand assessment of e values and mea atmospheres - (of exposure to c (Workplace atm for the measure	Id 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 isurement 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 isospheres - General requirements for the performance of procedures ement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be	

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	2 mg/kg bw/day	General	Systemic
	DNEL	Short term Dermal	6 mg/kg bw/day	General	Systemic
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	35.7 mg/m ³	General	Local
te of issue/Date of revision : 30	/01/2024	Date of previous issue	: No prev	ious validation	Version : 1 7/19
KNOCOAT 1633-03				L	abel No :71911

		Inhalation		population		
	DNEL	Short term	300 mg/m ³	General	Local	
		Inhalation		population		
	DNEL	Short term	300 mg/m ³	General	Systemic	
		Inhalation		population		
	DNEL	Long term	300 mg/m ³	Workers	Local	
		Inhalation	_			
	DNEL	Short term	600 mg/m ³	Workers	Local	
		Inhalation				
	DNEL	Short term Inhalation	600 mg/m ³	Workers	Systemic	
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic	
	DNEL	Long term Dermal	bw/day 7 mg/kg	population Workers	Systemic	
	DNEL	Long term	bw/day 12 mg/m³	General	Systemic	
	Ditte	Inhalation	12 mg/m	population	e yotonno	
	DNEL	Long term Inhalation	48 mg/m³	Workers	Systemic	
Butan-1-ol	DNEL	Long term Oral	1.5625 mg/	General	Systemic	
		5	kg bw/day	population	,	
	DNEL	Long term Dermal	3.125 mg/	General	Systemic	
		-	kg bw/day	population	-	
	DNEL	Long term	55.357 mg/	General	Systemic	
		Inhalation	m³	population		
	DNEL	Long term	155 mg/m³	General	Local	
		Inhalation	-	population		
	DNEL	Long term Inhalation	310 mg/m ³	Workers	Local	
Ethanol	DNEL	Long term Oral	87 mg/kg	General	Systemic	
		5	bw/day	population	,	
	DNEL	Long term	114 mg/m ³	General	Systemic	
		Inhalation		population		
	DNEL	Long term Dermal	206 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	343 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term	950 mg/m ³	General	Local	
	Dite	Inhalation	eee mg/m	population	2004	
	DNEL	Long term	950 mg/m ³	Workers	Systemic	
	BILLE	Inhalation	eee mg/m	TT OFficie	eyetenne	
	DNEL	Short term	1900 mg/	Workers	Local	
propydidy motning oth crist		Inhalation	m^3	Conserve	C	
propylidynetrimethanol	DNEL	Long term Oral	0.34 mg/	General	Systemic	
		Long torm Dormal	kg bw/day	population General	Sustamia	
	DNEL	Long term Dermal	0.34 mg/ kg bw/day	-	Systemic	
	DNEL	Long term	0.58 mg/m ³	population General	Systemic	
		Inhalation	0.00 mg/m ⁻	population	Systemic	
	DNEL	Long term Dermal	0.94 mg/	Workers	Systemic	
	DNEL	Long term	kg bw/day 3.3 mg/m³	Workers	Systemic	
		Inhalation	-			
Formaldehyde	DNEL	Long term Inhalation	0.375 mg/ m³	Workers	Local	
	DNEL	Short term Inhalation	0.75 mg/m ³	Workers	Local	
	DNEL	Long term Dermal	12 µg/cm²	General	Local	
				population		
	DNEL	Long term Dermal	37 µg/cm²	Workers	Local	
	DNEL	Long term	0.1 mg/m ³	General	Local	
		Inhalation	Ĭ	population		
	DNEL	Long term	3.2 mg/m ³	General	Systemic	
		Inhalation		population		
	DNEL	Long term Oral	4.1 mg/kg	General	Systemic	
			bw/day	population		
	1	1	,			

TEKNOCOAT 1633-03

Label No :71911

ECTION 8: Exposure controls/personal protection						
	DNEL	Long term	9 mg/m ³	Workers	Systemic	
		Inhalation	Ū			
	DNEL	Long term Dermal	102 mg/kg	General	Systemic	
		, , , , , , , , , , , , , , , , , , ,	bw/day	population		
	DNEL	Long term Dermal	240 mg/kg	Workers	Systemic	
			bw/day		-	
Maleic anhydride	DNEL	Long term	0.081 mg/	Workers	Local	
-		Inhalation	m³			
	DNEL	Long term	0.081 mg/	Workers	Systemic	
		Inhalation	m³		-	
	DNEL	Short term	0.2 mg/m ³	Workers	Local	
		Inhalation				
	DNEL	Short term	0.2 mg/m ³	Workers	Systemic	
		Inhalation				
	DNEL	Long term	0.05 mg/m³	General	Systemic	
		Inhalation		population		
	DNEL	Long term Oral	0.06 mg/	General	Systemic	
			kg bw/day	population		
	DNEL	Long term	0.08 mg/m ³		Local	
		Inhalation		population		
	DNEL	Short term Oral	0.1 mg/kg	General	Systemic	
			bw/day	population		
	DNEL	Short term Dermal	0.1 mg/kg	General	Systemic	
			bw/day	population		
	DNEL	Long term Dermal	0.1 mg/kg	General	Systemic	
			bw/day	population		
	DNEL	Short term Dermal	0.2 mg/kg	Workers	Systemic	
			bw/day			
	DNEL	Long term Dermal	0.2 mg/kg	Workers	Systemic	
			bw/day			

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measur	es	
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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
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.

9/19

SECTION 8: Exposure controls/personal protection

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

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
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
	Ethanol	78.29	172.9	
	Butan-1-ol	119	246.2	OECD 103
F	lammability : Not ava	ilable.		

T lamina binty	
Lower and upper explosion	: Lower: 1.4%
limit	Upper: 19%

limitUpper: 19%Flash point: Closed cup: 25°C (77°F)

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Auto-ignition temperature

Ingredient name	°C	°F	Method
Butan-1-ol	355	671	EU A.15
n-Butyl acetate	415	779	EU A.15

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Date of issue/Date of revision	: 3	0/01/2024	Dat	e of previou	s issue	:	No previous	validation	Version	: 1	1
Vapour pressure	1										
Partition coefficient: n-octanol/ water	:	Not app	licab	le.							
Solubility in water	1	Not avai	ilable								
Not available.											
Solubility(ies)	1										
Viscosity	1	Not avai	ilable).							
рН	1	Not app	licab	le.							
Decomposition temperature	1	Not avai	ilable).							

TEKNOCOAT 1633-03

	Va	apour Press	sure at 20°C	V	apour pres	ssure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Ethanol	42.94865	5.7				
n-Butyl acetate	11.25096	1.5	DIN EN 13016-2			
Relative density	: Not	available.		·		·
Density	: 1.3	g/cm³				
/apour density	: Not	available.				
Explosive properties	: Not	available.				
Dxidising properties	: Not	available.				
Particle characteristics						
Median particle size	: 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 classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-Butyl acetate	LC50 Inhalation Vapour	Rat	0.74 mg/l	4 hours
	LD50 Dermal	Rabbit	14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
Urea-formaldehyde-polymer	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
Butan-1-ol	LC50 Inhalation Vapour	Rat	24000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
Ethanol	LC50 Inhalation Vapour	Rat	124700 mg/m ³	4 hours
	LD50 Oral	Rat	7 g/kg	-
oropylidynetrimethanol	LD50 Oral	Rat	14000 mg/kg	-
Formaldehyde	LC50 Inhalation Gas.	Rat	250 ppm	4 hours
-	LD50 Dermal	Rabbit	270 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-
Maleic anhydride	LD50 Dermal	Rabbit	2620 mg/kg	-
-	LD50 Oral	Rat	400 mg/kg	-

SECTION 11: Toxicological information

Oral

Route

15192.31 mg/kg

Irritation/Corrosion		I			
Product/ingredient name	Result	Species	Score	Exposure	Observation
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300	-
				ug l	
n-Butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
liroo formaldabuda palumar	Even Severe irritent	Rabbit		mg 24 hours 100	
Urea-formaldehyde-polymer	Eyes - Severe irritant	Rabbit	-	uL	-
Butan-1-ol	Eyes - Severe irritant	Rabbit	-	0.005 MI	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				mg	
Ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Eyes - Moderate irritant	Rabbit	-	0.066666667	-
				minutes 100	
	Even Mederate invitant	Dabbit		mg	
	Eyes - Moderate irritant	Rabbit	-	100 uL	-
	Eyes - Severe irritant Skin - Mild irritant	Rabbit Rabbit	-	500 mg 400 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
		Rabbit	_	mg	_
Formaldehyde	Eyes - Mild irritant	Human	-	6 minutes 1	-
5				ppm	
	Eyes - Severe irritant	Rabbit	-	24 hours 750	-
				ug	
	Eyes - Severe irritant	Rabbit	-	750 ug	-
	Skin - Mild irritant	Human	-	72 hours 150	-
				ug l	
	Skin - Mild irritant	Rabbit	-	540 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 50	-
	Skin Sovoro irritant	Human		mg 0.01 %	
	Skin - Severe irritant Skin - Severe irritant	Human Rabbit	-	0.8 %	-
	Skin - Severe irritant	Rabbit		24 hours 2	-
		1 CODIC		mg	
Maleic anhydride	Eyes - Severe irritant	Rabbit	-	1 %	-
Conclusion/Summary	: Based on available data, the	classification c	ı riteria are	not met	
		classification of		not mot.	
Sensitisation					
Conclusion/Summary	: Based on available data, the	classification ci	riteria are	not met.	
<u>Autagenicity</u>					
Conclusion/Summary	: Based on available data, the	classification c	riteria are	not met.	
Carcinogenicity					
	carcinogenic hazard of this produ	ict arises when	resnirah	le dust is inhale	d in quantities
	ent of particle clearance mechani				
Conclusion/Summary	: Based on available data, the	•		not met	
		classification of		not mot.	
Reproductive toxicity					
Conclusion/Summary	: Based on available data, the	classification cl	riteria are	not met.	
<u>Feratogenicity</u>					
Conclusion/Summary	: Based on available data, the	classification c	riteria are	not met.	
Specific target organ toxicit					

Specific target organ toxicity (single exposure)

SECTION 11: Toxicological information								
Product/ingredient name	Category	Route of exposure	Target organs					
n-Butyl acetate	Category 3	-	Narcotic effects					
Butan-1-ol	Category 3	-	Respiratory tract irritation					
	Category 3		Narcotic effects					
Formaldehyde	Category 3	-	Respiratory tract irritation					

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Maleic anhydride	Category 1	inhalation	respiratory system

Aspiration hazard

Not available.

Information on likely routes of exposure	:	Not available.
Potential acute health effects	2	
Eye contact	:	Causes serious eye damage.
Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	1	No known significant effects or critical hazards.
Ingestion	:	Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: 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 effect	ts as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
Not available.	
Conclusion/Summary	: Not available.
Date of issue/Date of revision	: 30/01/2024 Date of previous issue : No previous validation Version : 1 1
TEKNOCOAT 1633-03	Label No :71911

13/19

SECTION 11: Toxicological information

General

- : No known significant effects or critical hazards.
- Carcinogenicity
- No known significant effects or critical hazards.No known significant effects or critical hazards.

Mutagenicity Reproductive toxicity

: No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours
n-Butyl acetate	Acute LC50 32 mg/l Marine water Acute LC50 18000 µg/l Fresh water	Crustaceans - Artemia salina Fish - Pimephales promelas	48 hours 96 hours
Butan-1-ol	Acute EC50 1983000 µg/l Fresh water Acute LC50 1730000 µg/l Fresh water	Daphnia - Daphnia magna Fish - Pimephales promelas	48 hours 96 hours
Ethanol	Acute EC50 17.921 mg/l Marine water Acute EC50 2000 µg/l Fresh water	Algae - <i>Ulva pertusa</i> Daphnia - <i>Daphnia magna</i>	96 hours 48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - <i>Artemia</i> <i>franciscana</i> - Larvae	48 hours
	Acute LC50 42000 µg/l Fresh water Chronic NOEC 4.995 mg/l Marine water	Fish - Oncorhynchus mykiss Algae - Ulva pertusa	4 days 96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 0.375 ul/L Fresh water	Fish - <i>Gambusia holbrooki -</i> Larvae	12 weeks
propylidynetrimethanol	Acute EC50 13000000 μg/l Fresh water Acute LC50 14400000 μg/l Marine water		48 hours 96 hours
Formaldehyde	Acute EC50 3.48 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 0.788 mg/l Marine water Acute EC50 12.98 mg/l Fresh water	Algae - <i>Ulva pertusa</i> Crustaceans - <i>Ceriodaphnia</i> <i>dubia</i> - Neonate	96 hours 48 hours
	Acute EC50 5800 μg/l Fresh water	Daphnia - <i>Daphnia pulex -</i> Neonate	48 hours
	Acute LC50 1.41 ppm Fresh water Chronic NOEC 0.005 mg/l Marine water	Fish - Oncorhynchus mykiss Algae - Isochrysis galbana - Exponential growth phase	96 hours 96 hours
	Chronic NOEC 953.9 ppm Fresh water	Fish - Oncorhynchus tshawytscha - Egg	43 days
Maleic anhydride	Acute LC50 230000 µg/l Fresh water	Fish - Gambusia affinis - Adult	96 hours

Conclusion/Summary : Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

: This product has not been tested for biodegradation.

12.3 Bioaccumulative potential

Date of issue/Date of revision TEKNOCOAT 1633-03

Conclusion/Summary

Ś	SECTION 12: Ecological information									
	Product/ingredient name	LogPow	BCF	Potential						
	n-Butyl acetate	2.3	-	Low						
	Butan-1-ol	1	-	Low						
	Ethanol	-0.35	-	Low						
	propylidynetrimethanol	-0.47	<1	Low						

Low

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

-2.78

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

Maleic anhydride

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations 13.1 Waste treatment methods **Product** Methods of disposal 1 The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. **Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste. **European waste** : 08.01.11 catalogue (EWC) Packaging **Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. **Special precautions** : This material and its container must be disposed of in a safe way. Care should be

taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1993	UN1993	UN1993	UN1993
shipping name N.O.S. (n-butyl		FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, butan-1-ol)	FLAMMABLE LIQUID, N.O.S. (xylene)	FLAMMABLE LIQUID, N.O.S. (xylene)
Date of issue/Date of revi TEKNOCOAT 1633-0		Date of previous issue	: No previous validation	Version : 1 15/19 Label No :71911

14.3 Transport	3		3	3	3	
hazard class(es)		•				
14.4 Packing group			Ш	111	III	
14.5 Environmental hazards	No.		Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.	
Additional informa	<u>ition</u>					
ADR/RID		: 1	unnel_code (D/E)			
ADN	The product is only regulated as an environmentally hazardous substance w transported in tank vessels.			lly hazardous substance when		
IMDG		: 7	he marine pollutant mark i	ark is not required when transported in sizes of \leq 5 L or \leq 5 kg.		
ΙΑΤΑ		: The environmentally hazardous substance mark may appear if required by other transportation regulations.			nay appear if required by other	
user upright and			t within user's premises: always transport in closed containers that are d secure. Ensure that persons transporting the product know what to do in of an accident or spillage.			
14.7 Maritime transport in : Not releva bulk according to IMO instruments			lot relevant/applicable due	to nature of the produc	ct.	

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]
TEKNOCOAT 1633-03 Formaldehyde		≥90 <0.1	3 72
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	<u>es (1005/2009/E</u>	<u>U)</u>	
Not listed.			

SECTION 15: Regulatory information

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category P5c

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
,	UK Occupational Exposure Limits EH40 - WEL	formaldehyde; methanal	Carc.	-

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.

: ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Eye Dam. 1, H318	On basis of test data Calculation method Calculation method

Full text of abbreviated H statements

SECTION 16: Other information

H225Highly flammable liquid and vapour.H226Flammable liquid and vapour.H301Toxic if swallowed.H302Harmful if swallowed.H304May be fatal if swallowed and enters airways.H311Toxic in contact with skin.H312Harmful in contact with skin.H314Causes severe skin burns and eye damage.H315Causes sevin burns and eye damage.H316Causes serious eye damage.H317May cause an allergic skin reaction.H318Causes serious eye damage.H319Causes serious eye damage.H331Toxic if inhaled.H332Harmful if inhaled.H334May cause allergy or asthma symptoms or breathing difficulties if inhaled.H335May cause drowsiness or dizziness.H341Suspected of causing genetic defects.H350May cause cancer.H361fdSuspected of damaging fertility. Suspected of damaging the unborn child.H373May cause damage to organs through prolonged or repeated exposure.H413May cause damage to organs through prolonged or repeated exposure.H413May cause damage to organs through prolonged or repeated exposure.H413May cause damage to organs through prolonged or repeated exposure.H413May cause damage to organs through prolonged or repeated exposure.H413May cause damage to organs through prolonged or repeated exposure.H413May cause damage to organs through prolonged or repeated exposure.H413May cause damage to organs through prolonged or repeat		
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 H373 May cause damage to organs through prolonged or repeated exposure. H413 May cause long lasting harmful effects to aquatic life. EUH066 Repeated exposure may cause skin dryness or cracking. 	H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H413May cause long lasting harmful effects to aquatic life.EUH066Repeated exposure may cause skin dryness or cracking.		
EUH066 Repeated exposure may cause skin dryness or cracking.	H373	May cause damage to organs through prolonged or repeated exposure.
	H413	May cause long lasting harmful effects to aquatic life.
EUH071 Corrosive to the respiratory tract.	EUH066	
	EUH071	Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
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
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Resp. Sens. 1	RESPIRATORY SENSITISATION - Category 1
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 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
Date of issue/ Date of	: 30/01/2024

revision	
Date of previous issue	: No previous validation
Version	: 1

All variants

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.

Date of issue/Date of revision TEKNOCOAT 1633-03