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

# **SAFETY DATA SHEET**



SUPREMO KLARLACK 3990-40 - All variants

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

### 1.1 Product identifier

Product name

: SUPREMO KLARLACK 3990-40 - 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
 : Malta Competition and Consumer Affairs Authority (MCCAA): +356 2395 2000

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 2, H225 Eye Irrit. 2, H319 Skin Sens. 1, H317 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	<ul> <li>H225 - Highly flammable liquid and vapour.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H319 - Causes serious eye irritation.</li> <li>H336 - May cause drowsiness or dizziness.</li> </ul>
Precautionary statements	
Prevention	<ul> <li>P280 - Wear protective gloves. Wear eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P261 - Avoid breathing vapour.</li> </ul>
Response	: P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
Storage	: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

# **SECTION 2: Hazards identification**

SECTION 2. Hazarus	
Disposal	<ul> <li>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Hazardous ingredients	: Contains: n-Butyl acetate; Ethyl acetate; EO bis(benztriazolyl)phenylpropionat and Fatty acids, C14-18 and C16-18-unsatd., maleated
Supplemental label elements	:
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:
2.3 Other hazards	
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do : None known. not result in classification

# **SECTION 3: Composition/information on ingredients**

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
Ethyl acetate	REACH #: 01-2119475103-46 EC: 205-500-4 CAS: 141-78-6 Index: 607-022-00-5	≥10 - ≤25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	-	[1] [2]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	<10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral, inhalation) Asp. Tox. 1, H304	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
2-Methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤5	Flam. Liq. 3, H226	-	[2]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤3	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
EO bis(benztriazolyl)	REACH #:	≤0.3	Skin Sens. 1A, H317	-	[1]
Date of issue/Date of revision	: 21/12/2023 Date	e of previous is	sue : No previous valio	lation Version :1	2/19
SUPREMO KLARLACK 3990	)-40 - All variants			Label No :5624	45

SECTION 3: Compo	osition/informat	ion on in	gredients		
phenylpropionat	01-0000015075-76 EC: 400-830-7 CAS: 104810-48-2 Index: 607-176-00-3		Aquatic Chronic 2, H411		
Fatty acids, C14-18 and C16-18-unsatd., maleated	REACH #: 01-2119976378-19 EC: 288-306-2 CAS: 85711-46-2	≤0.3	Skin Irrit. 2, H315 Skin Sens. 1, H317	-	[1]
Methyl methacrylate	REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6	≤0.3	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	-	[1] [2]
Maleic anhydride	REACH #: 01-2119472428-31 EC: 203-571-6 CAS: 108-31-6 Index: 607-096-00-9	≤0.1	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	ATE [Oral] = 400 mg/kg Skin Sens. 1, H317: C ≥ 0.001%	[1]
			statements declared above.		

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

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

### **SECTION 4: First aid measures**

4.1 Description of first aid me	easures
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	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

# SECTION 4: First aid measures

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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### 4.2 Most important symptoms and effects, both acute and delayed

### Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

#### 4.3 Indication of any immediate medical attention and special treatment needed

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

### **SECTION 5: Firefighting measures**

5.1 Extinguishing media					
Suitable extinguishing media	:	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.			
Unsuitable extinguishing media	:	Do not use water jet.			
5.2 Special hazards arising f	ron	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			
5.3 Advice for firefighters					
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.			

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SUPREMO KLARLACK 3990-40 -	All variants			Label No	5624	5

### **SECTION 5: Firefighting measures**

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

### **SECTION 6: Accidental release measures**

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. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

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

### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in
	which this product is used. Do not get in eyes or on skin or clothing. Do not ingest.
	Avoid breathing vapour or mist. Use only with adequate ventilation. Wear
	appropriate respirator when ventilation is inadequate. Do not enter storage areas
	and confined spaces unless adequately ventilated. Keep in the original container or
	an approved alternative made from a compatible material, kept tightly closed when
	not in use. Store and use away from heat, sparks, open flame or any other ignition
	source. Use explosion-proof electrical (ventilating, lighting and material handling)
	equipment. Use only non-sparking tools. Take precautionary measures against
	electrostatic discharges. Empty containers retain product residue and can be
	hazardous. Do not reuse container.

### SECTION 7: Handling and storage

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

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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	EU OEL (Europe, 1/2022). Notes: list of indicative				
	occupational exposure limit values				
	STEL: 150 ppm 15 minutes.				
	STEL: 723 mg/m <sup>3</sup> 15 minutes.				
	TWA: 241 mg/m <sup>3</sup> 8 hours.				
	TWA: 50 ppm 8 hours.				
Ethyl acetate	EU OEL (Europe, 1/2022). Notes: list of indicative				
-	occupational exposure limit values				
	STEL: 400 ppm 15 minutes.				
	STEL: 1468 mg/m <sup>3</sup> 15 minutes.				
	TWA: 200 ppm 8 hours.				
	TWA: 734 mg/m <sup>3</sup> 8 hours.				
Xylene	EU OEL (Europe, 1/2022). [xylene, mixed isomers pure]				
	Absorbed through skin. Notes: list of indicative occupationa				
	exposure limit values				
	TWA: 50 ppm 8 hours.				
	TWA: 221 mg/m <sup>3</sup> 8 hours.				
	STEL: 100 ppm 15 minutes.				
	STEL: 442 mg/m <sup>3</sup> 15 minutes.				
2-Methoxy-1-methylethyl acetate	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list				
	of indicative occupational exposure limit values				
	TWA: 50 ppm 8 hours.				
	TWA: 275 mg/m <sup>3</sup> 8 hours.				
	STEL: 100 ppm 15 minutes.				
	STEL: 550 mg/m <sup>3</sup> 15 minutes.				
Ethylbenzene	EU OEL (Europe, 1/2022). Absorbed through skin. Notes: list				
	of indicative occupational exposure limit values				
ate of issue/Date of revision : 21/12/202	3 Date of previous issue : No previous validation Version : 1 6/19				

### **SECTION 8: Exposure controls/personal protection**

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	TWA: 100 ppm 8 hours.
	TWA: 442 mg/m <sup>3</sup> 8 hours.
	STEL: 200 ppm 15 minutes.
	STEL: 884 mg/m <sup>3</sup> 15 minutes.
Methyl methacrylate	EU OEL (Europe, 1/2022). Notes: list of indicative
	occupational exposure limit values
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.

#### **Biological exposure indices**

Product/ingredient name	Exposure indices
No exposure indices known.	

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

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
n-Butyl acetate	DNEL	Short term Oral	2 mg/kg	General	Systemic
-			bw/day	population	
	DNEL	Long term Oral	2 mg/kg	General	Systemic
		Ŭ	bw/day	population	,
	DNEL	Short term Dermal	6 mg/kg	General	Systemic
			bw/day	population	5
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	35.7 mg/m <sup>3</sup>	General	Local
		Inhalation	5	population	
	DNEL	Short term	300 mg/m <sup>3</sup>	General	Local
		Inhalation	<b>J</b>	population	
	DNEL	Short term	300 mg/m <sup>3</sup>	General	Systemic
		Inhalation	<b>J</b>	population	,
	DNEL	Long term	300 mg/m <sup>3</sup>	Workers	Local
		Inhalation	<b>J</b>		
	DNEL	Short term	600 mg/m <sup>3</sup>	Workers	Local
		Inhalation	Ű		
	DNEL	Short term	600 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	Ű		,
	DNEL	Long term Dermal	3.4 mg/kg	General	Systemic
		5	bw/day	population	,
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	48 mg/m <sup>3</sup>	Workers	Systemic
Ethyl acetate	DNEL	Long term Oral	4.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	37 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	63 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	367 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	367 mg/m <sup>3</sup>	General population	Systemic

		Chart tarra	704 mag/ma3	Conorol	
	DNEL	Short term	734 mg/m <sup>3</sup>	General	Local
		Inhalation	704 / 3	population	
	DNEL	Short term	734 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term	734 mg/m³	Workers	Local
		Inhalation			
	DNEL	Long term	734 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	-		
	DNEL	Short term	1468 mg/	Workers	Local
		Inhalation	m <sup>3</sup>		
	DNEL	Short term	1468 mg/	Workers	Systemic
	DINCL	Inhalation	m <sup>3</sup>	WOIKEI3	Oysternic
Vulana	DNEL			Conorol	Local
Xylene	DINEL	Long term	65.3 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
	DNEL	Short term	260 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
	DNEL	Short term	260 mg/m <sup>3</sup>	General	Systemic
		Inhalation	-	population	
	DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Local
	Ditte	Inhalation		i ontoro	2000
	DNEL	Long term Oral	12.5 mg/	General	Systemic
	DINCL	Long term Oral			Systemic
		1	kg bw/day	population	0
	DNEL	Long term	65.3 mg/m <sup>3</sup>	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	125 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	212 mg/kg	Workers	Systemic
		5	bw/day		,
	DNEL	Long term	221 mg/m <sup>3</sup>	Workers	Systemic
	DILL	Inhalation	22 T mg/m	Wonters	Cysternio
	DNEL	Short term	442 mg/m <sup>3</sup>	Workers	Local
	DINEL		442 mg/m	VUIKEIS	LOCAI
		Inhalation			
	DNEL	Short term	442 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
2-Methoxy-1-methylethyl acetate	DNEL	Long term	33 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	33 mg/m <sup>3</sup>	General	Systemic
		Inhalation	U U	population	5
	DNEL	Long term Oral	36 mg/kg	General	Systemic
			bw/day	population	- ,
	DNEL	Long term	275 mg/m <sup>3</sup>	Workers	Systemic
	DINCL	-	275 mg/m	VUIKEIS	Systemic
		Inhalation	000 //		0
	DNEL	Long term Dermal	320 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term	550 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Long term Dermal	796 mg/kg	Workers	Systemic
		-	bw/day		-
Ethylbenzene	DNEL	Long term Oral	1.6 mg/kg	General	Systemic
<b>,</b>		J C. G.	bw/day	population	,
	DNEL	Long term	15 mg/m <sup>3</sup>	General	Systemic
	DINCL		15 mg/m		Systemic
		Inhalation	77	population	0
	DNEL	Long term	77 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Short term	293 mg/m <sup>3</sup>	Workers	Local
		Inhalation	-		
	DMEL	Long term	442 mg/m <sup>3</sup>	Workers	Local
		Inhalation	3		
	DMEL	Short term	884 mg/m³	Workers	Systemic
			004 mg/m²	VVUINCIS	Systemic
		Inhalation	4 5 "		
Fatty acids, C14-18 and	DNEL	Long term Oral	1.5 mg/kg	General	Systemic
C16-18-unsatd., maleated			bw/day	population	
	DNEL	Long term Dermal	1.5 mg/kg	General	Systemic
	1	1	bw/day	population	

SUPREMO KLARLACK 3990-40 - All variants

Label No :56245

	DNEL	Long term Dormal	3 ma/ka	Workers	Systemic
	DNEL	Long term Dermal	3 mg/kg	workers	Systemic
Mathyl mathaanylata	DNEL	Long term Oral	bw/day	General	Systemic
Vethyl methacrylate	DINEL	Long term Oral	8.2 mg/kg		Systemic
		Chart ta was	bw/day	population	
	DNEL	Short term	208 mg/m <sup>3</sup>	General	Local
	DNE	Inhalation	440	population	1 1
	DNEL	Short term	416 mg/m <sup>3</sup>	Workers	Local
		Inhalation		<b>a</b> .	
	DNEL	Short term Dermal	1.5 mg/cm <sup>2</sup>	General	Local
				population	
	DNEL	Long term Dermal	1.5 mg/cm <sup>2</sup>	General	Local
				population	
	DNEL	Short term Dermal	1.5 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Long term Dermal	1.5 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Long term Dermal	8.2 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	13.67 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	74.3 mg/m <sup>3</sup>	General	Systemic
		Inhalation	5	population	,
	DNEL	Long term	104 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	208 mg/m <sup>3</sup>	Workers	Local
		Inhalation	g,		
	DNEL	Long term	348.4 mg/	Workers	Systemic
		Inhalation	m <sup>3</sup>		- )
/aleic anhydride	DNEL	Long term	0.081 mg/	Workers	Local
	DITLE	Inhalation	m <sup>3</sup>	Tronkoro -	Local
	DNEL	Long term	0.081 mg/	Workers	Systemic
	DITLE	Inhalation	m <sup>3</sup>	Tronkoro -	oyeterme
	DNEL	Short term	0.2 mg/m <sup>3</sup>	Workers	Local
	DIVLE	Inhalation	0.2 mg/m	Wonters	Loodi
	DNEL	Short term	0.2 mg/m <sup>3</sup>	Workers	Systemic
	DIVLL	Inhalation	0.2 mg/m	WOINCI3	Gysternie
	DNEL	Long term	0.05 mg/m <sup>3</sup>	General	Systemic
	DIVEL	Inhalation	0.05 mg/m	population	Oysternic
	DNEL	Long term Oral	0.06 mg/	General	Systemic
	DINCL	Long term Oral	kg bw/day	population	Systemic
	DNEL	Long term	0.08 mg/m <sup>3</sup>	General	Local
	DINEL	Inhalation	0.00 mg/m		LUCAI
			0.1 mg/kg	population	Sustamia
	DNEL	Short term Oral	0.1 mg/kg	General	Systemic
		Short torm Dormal	bw/day	population	Sustamia
	DNEL	Short term Dermal	0.1 mg/kg	General	Systemic
			bw/day	population	Overter
	DNEL	Long term Dermal	0.1 mg/kg	General	Systemic
			bw/day	population	On the state
	DNEL	Short term Dermal	0.2 mg/kg	Workers	Systemic
	<b>_</b>	. <u> </u>	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 measures

### **SECTION 8: Exposure controls/personal protection**

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
	Recommendations : Wear suitable gloves tested to EN374.
	< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
	1 - 4 hours (breakthrough time): $4H$ / Silver Shield® gloves.
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	<ul> <li>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.</li> </ul>
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

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	
n-Butyl acetate		126	258.8	OECD 103
Flammability	: Not ava	ilable.	•	
Lower and upper explosion limit	: Lower: Upper:			
Flash point	: Closed	cup: -1°C (30.2°F)		
Auto-ignition temperature	:			
Ingredient name		°C	°F	Method
2-Methoxy-1-methylethyl acetate		333	631.4	DIN 51794
n-Butyl acetate		415	779	EU A.15
Decomposition temperature	: Not ava	ilable.		
рН	: Not app	olicable.		
Viscosity	: Not ava	ilable.		
Solubility(ies)	:			
Not available.				
Solubility in water	: Not ava	ilable.		
Partition coefficient: n-octanol/ water	: Not app	blicable.		
Vapour pressure				

### Vapour pressure

	Va	pour Press	ure at 20°C	V	apour pres	sure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Ethyl acetate	81.59163	10.9				
n-Butyl acetate	11.25096	1.5	DIN EN 13016-2			
Relative density	: Not a	available.	•			·
Density	: 0.9 g	g/cm³				
Vapour density	: Not a	available.				
Explosive properties	: Not a	available.				
Oxidising properties	: Not a	available.				
Particle characteristics						
Median particle size	: Not a	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.
Date of issue/Date of revision	: 21/12/2023 Date of previous issue : No previous validation Version : 1 11/19
SUPREMO KLARLACK 3990-	40 - All variants Label No :56245

### **SECTION 11: Toxicological information**

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

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-Butyl acetate	LC50 Inhalation Vapour	Rat	0.74 mg/l	4 hours
	LD50 Dermal	Rabbit	14112 mg/kg	-
	LD50 Oral	Rat	10760 mg/kg	-
Ethyl acetate	LD50 Oral	Rat	5620 mg/kg	-
Xylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
2-Methoxy-1-methylethyl	LD50 Dermal	Rabbit	>5 g/kg	-
acetate				
	LD50 Oral	Rat	8532 mg/kg	-
Ethylbenzene	LC50 Inhalation Dusts and	Rat	29000 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	15400 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Methyl methacrylate	LC50 Inhalation Vapour	Rat	78000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	7872 mg/kg	-
Maleic anhydride	LD50 Dermal	Rabbit	2620 mg/kg	-
-	LD50 Oral	Rat	400 mg/kg	-

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

#### Acute toxicity estimates

Route	ATE value	
Dermal	13244.31 mg/kg	
Inhalation (vapours)	105.66 mg/l	

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-Butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
	Olvin Milel innite at	Det		mg	
	Skin - Mild irritant Skin - Moderate irritant	Rat Rabbit	-	8 hours 60 uL 100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
	Skill - Moderate Initalit	Rabbit	-	mg	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	_	500 mg	-
	Skin - Mild irritant	Rabbit	_	24 hours 15	-
				mg	
Maleic anhydride	Eyes - Severe irritant	Rabbit	-	1 %	-
Conclusion/Summary	: Based on available data, the	classification c	riteria are	not met.	
Sensitisation					
Conclusion/Summary	: May cause an allergic skin reaction.				
Mutagenicity					
Conclusion/Summary	: Based on available data, the classification criteria are not met.				
<b>Carcinogenicity</b>					
Conclusion/Summary	: Based on available data, the classification criteria are not met.				
Reproductive toxicity					
Conclusion/Summary	: Based on available data, the classification criteria are not met.				
Teratogenicity					
Conclusion/Summany	· Based on available data the	aloggification of	ritorio oro	not mot	

**Conclusion/Summary** : Based on available data, the classification criteria are not met. <u>Specific target organ toxicity (single exposure)</u>

### **SECTION 11: Toxicological information**

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

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Xylene	Category 2	oral, inhalation	-
Ethylbenzene	Category 2	oral, inhalation	hearing organs
Maleic anhydride	Category 1	inhalation	respiratory system

#### **Aspiration hazard**

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

### Information on likely routes : Not available. of exposure

Potential acute health effects	
Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: May cause an allergic skin reaction.
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 or irritation 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: irritation redness
Ingestion	: No specific data.

# Delayed and immediate effects 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 effects			

Date of issue/Date of revision	: 21/12/2023	Date of previous issue
SUPREMO KLARLACK 3990-40 ·	- All variants	

### **SECTION 11: Toxicological information**

Not available.

Conclusion/Summary	: Not available.
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
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	
n-Butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours	
-	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours	
Ethyl acetate	Acute EC50 2500000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours	
	Acute LC50 750000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours	
	Acute LC50 154000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours	
	Acute LC50 212500 µg/l Fresh water	Fish - Heteropneustes fossilis	96 hours	
	Chronic NOEC 12 mg/l Fresh water	Daphnia - Daphnia magna	21 days	
	Chronic NOEC 75.6 mg/l Fresh water	Fish - <i>Pimephales promelas</i> - Embryo	32 days	
Methyl methacrylate	Acute LC50 130000 µg/l Fresh water	Fish - <i>Pimephales promelas</i> - Adult	96 hours	
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

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

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
n-Butyl acetate	2.3	-	Low
Ethyl acetate	0.68	30	Low
Xylene	3.12	8.1 to 25.9	Low
2-Methoxy-1-methylethyl acetate	1.2	-	Low
Ethylbenzene	3.6	-	Low
Methyl methacrylate	1.38	-	Low
Maleic anhydride	-2.78	-	Low

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

### 12.5 Results of PBT and vPvB assessment

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

### **SECTION 12: Ecological information**

### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

#### **13.1 Waste treatment methods**

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

### **SECTION 14: Transport information**

ADR/RID	ADN	IMDG	IATA
UN1993	UN1993	UN1993	UN1993
FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, ethyl acetate)	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, ethyl acetate)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, xylene)	FLAMMABLE LIQUID, N.O.S. (ethyl acetate, xylene)
3	3	3	3
11	11	11	11
No.	Yes.	No.	No.
	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, ethyl acetate) 3	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, ethyl acetate)FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, ethyl acetate)33IIIINo.Yes.	LAMMABLE LIQUID, N.O.S. (n-butyl acetate, ethyl acetate)FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, ethyl acetate)FLAMMABLE LIQUID, N.O.S. (ethyl acetate, xylene)333IIIIIINo.Yes.No.

#### Additional information

ADR/RID

: Special provisions 640 (C)

Tunnel code (D/E)

ADN

 The product is only regulated as an environmentally hazardous substance when transported in tank vessels.
 <u>Special provisions</u> 640 (C)

### **SECTION 14: Transport information**

14.6 Special precautions for	
user	

- : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
- 14.7 Maritime transport in bulk according to IMO
- : Not relevant/applicable due to nature of the product.

bulk according to instruments

### SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

### 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]
SUPREMO KLARLACK 3990-40		≥90	3
Labelling	:	•	·

#### **Other EU regulations**

other Lo regulations		
Industrial emissions (integrated pollution prevention and control) - Air	:	Not listed
Industrial emissions (integrated pollution prevention and control) - Water	:	Not listed
Explosive precursors	1	Not applicable.
Ozone depleting substanc	<u>es (</u>	<u>1005/2009/EU)</u>
Not listed.		

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	

### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

### **SECTION 15: Regulatory information**

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	1	This product contains substances for which Chemical Safety Assessments are still
assessment		required.

### **SECTION 16: Other information**

Indicates information t	hat has changed from previously issued version.
Indicates information t Abbreviations and acronyms	<ul> <li>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</li> </ul>
	SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

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

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

#### Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.
L	

Full text of classifications [CLP/GHS]

### **SECTION 16: Other information**

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye 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
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	: 21/12/2023
revision	
Date of previous issue	No previous validation
Version	: 1
	SUPREMO KLARLACK 3990-40 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.