Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

# **SAFETY DATA SHEET**



**TEKNOHEAT 1180-00 - TS 0190 BLACK** 

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

# 1.1 Product identifier

Product name : TEKNOHEAT 1180-00 - TS 0190 BLACK

**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 (UK) Limited, 7 Longlands Rd, Bicester, Oxfordshire OX26 5AH, United Kingdom. Tel. +44 (0) 1869 208005.

## **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 UK CLP/GHS** 

Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H336 Aquatic Chronic 2, H411

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

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

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

## 2.2 Label elements

**Hazard pictograms** 

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Signal word	: Warning
Hazard statements	<ul> <li>H226 - Flammable liquid and vapour.</li> <li>H319 - Causes serious eye irritation.</li> <li>H336 - May cause drowsiness or dizziness.</li> <li>H411 - Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	<ul> <li>P280 - 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>P273 - Avoid release to the environment.</li> </ul>
Response	: P391 - Collect spillage.
Storage	: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

#### **SECTION 2: Hazards identification** : P501 - Dispose of contents and container in accordance with all local, regional, Disposal national and international regulations. **Supplemental label** ŝ elements **Annex XVII - Restrictions** : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles 2.3 Other hazards **Product meets the criteria** : This mixture does not contain any substances that are assessed to be a PBT or a for PBT or vPvB according vPvB. to Regulation (EC) No. 1907/2006, Annex XIII Other hazards which do : None known.

not result in classification

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

	Mixture			I
Product/ingredient name	Identifiers	%	Classification	Туре
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥50 - ≤75	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
Trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≤5	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
Xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤3	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	[1] [2]
Butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	<3	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	[1] [2]
iso-butanol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	<1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	[1] [2]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	<1	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) (oral, inhalation) Asp. Tox. 1, H304	[1] [2]
n-butyl acrylate	EC: 205-480-7 CAS: 141-32-2 Index: 607-062-00-3	≤0.1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1] [2]
Date of issue/Date of revision	: 16/11/2022 Date of previous	issue : No prev	ious validation Version : 1	2/18
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SECTION 3: Co	mposition/information on	ingredients	Skin Sens. 1, H317 STOT SE 3, H335	
Styrene	REACH #: 01-2119457861-32 EC: 202-851-5 CAS: 100-42-5	≤0.1	Flam. Liq. 3, H335 Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361 STOT SE 3, H335 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
			See Section 16 for the full text of the H statements declared above.	

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

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

4.2 Most important symptoms and effects, both acute and delayed

# **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Over-exposure signs/symptoms         Eye contact       : Adverse symptoms may include the following: pain or irritation watering redness						
Date of issue/Date of revision	: 16/11/2022	Date of previous issue	: No previous validation	Version	:1	3/18
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# SECTION 4: First aid measures

Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: No specific data.
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 from the substance or mixture

Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus oxides metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	te	ctive equipment and emergency procedures
For non-emergency personnel	-	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Date of issue/Date of revision	: 16/11/2022	Date of previous issue	: No previous validation	Version	:1	4/18
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# **SECTION 6: Accidental release measures**

### 6.3 Methods and material for containment 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
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
E2	200 tonne	500 tonne

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## 7.3 Specific end use(s)

Recommendations

: Not available.

# **SECTION 7: Handling and storage**

Industrial sector specific solutions

: Not available.

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

#### 8.1 Control parameters

Occupational exposure limits	
n-Butyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 966 mg/m <sup>3</sup> 15 minutes.
	STEL: 200 ppm 15 minutes.
	TWA: 724 mg/m³ 8 hours.
	TWA: 150 ppm 8 hours.
Xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,
	p- or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m³ 8 hours.
	STEL: 100 ppm 15 minutes.
Butan-1-ol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 154 mg/m³ 15 minutes.
	STEL: 50 ppm 15 minutes.
iso-butanol	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 231 mg/m <sup>3</sup> 15 minutes.
	STEL: 75 ppm 15 minutes.
	TWA: 154 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
Ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 552 mg/m³ 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m <sup>3</sup> 8 hours.
n-butyl acrylate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 26 mg/m <sup>3</sup> 15 minutes.
	STEL: 5 ppm 15 minutes.
	TWA: 5 mg/m <sup>3</sup> 8 hours.
<b>0</b> /	TWA: 1 ppm 8 hours.
Styrene	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 250 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 430 mg/m <sup>3</sup> 8 hours.
	STEL: 1080 mg/m³ 15 minutes.
Recommended monitoring : If this produ	ict contains ingredients with exposure limits, personal, workplace

**Recommended monitoring** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness procedures of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. 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	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	7 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	12 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	48 mg/m³	Workers	Systemic
	DNEL	Short term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	2 mg/kg bw/day	General population	Systemic
e of issue/Date of revision : 1	6/11/2022	Date of previous issue	: No pre	vious validation	/ersion :1 6/
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	DNEL	Short term Dermal	6 mg/kg	General	Systemic	
	DITE		bw/day	population	e yotonno	
	DNEL	Short term Dermal	11 mg/kg bw/day	Workers	Systemic	
	DNEL	Long term Inhalation	35.7 mg/m <sup>3</sup>	General population	Local	
	DNEL	Short term Inhalation	300 mg/m³	General population	Local	
	DNEL	Short term Inhalation	300 mg/m³	General	Systemic	
	DNEL	Long term Inhalation	300 mg/m³	Workers	Local	
	DNEL	Short term Inhalation	600 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Short term Inhalation	600 mg/m³	Workers	Systemic	
Trizinc bis(orthophosphate)	DNEL	Long term Oral	0.83 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	2.5 mg/m <sup>3</sup>	General	Systemic	
	DNEL	Long term Inhalation	5 mg/m³	Workers	Systemic	
	DNEL	Long term Dermal	83 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic	
Xylene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	14.8 mg/m <sup>3</sup>	General	Systemic	
	DNEL	Long term	77 mg/m³	Workers	Systemic	
	DNEL	Long term Dermal	108 mg/kg	General population	Systemic	
	DNEL	Long term Dermal	bw/day 180 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Inhalation	289 mg/m <sup>3</sup>	Workers	Local	
	DNEL	Short term Inhalation	289 mg/m³	Workers	Systemic	
	DNEL	Long term Inhalation	65.3 mg/m³	General population	Local	
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General population	Local	
	DNEL	Short term Inhalation	260 mg/m <sup>3</sup>	General	Systemic	
	DNEL	Long term	221 mg/m³	Workers	Local	
Butan-1-ol	DNEL	Long term	55 mg/m³	General population	Local	
	DNEL	Long term Inhalation	310 mg/m³	Workers	Local	
	DNEL	Long term Oral	1.5625 mg/ kg bw/day	General population	Systemic	
	DNEL	Long term Dermal	3.125 mg/ kg bw/day	General	Systemic	
	DNEL	Long term Inhalation	55.357 mg/	General	Systemic	
so-butanol	DNEL	Long term Inhalation	55 mg/m <sup>3</sup>	General	Local	
	DNEL	Long term	310 mg/m³	Workers	Local	
Ethylbenzene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	15 mg/m <sup>3</sup>	General population	Systemic	
				Population		

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	•	personal prote			
	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			
	DMEL	Short term	884 mg/m³	Workers	Systemic
		Inhalation			
n-butyl acrylate	DNEL	Short term Dermal	0.28 mg/ cm <sup>2</sup>	Workers	Local
	DNEL	Long term Dermal	0.28 mg/ cm²	Workers	Local
	DNEL	Long term	11 mg/m <sup>3</sup>	Workers	Local
		Inhalation	-		
Styrene	DNEL	Long term Oral	7.7 µg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	1 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	1 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Short term	10 mg/m³	General	Local
		Inhalation		population	
	DNEL	Short term	10 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term	85 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Short term	100 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Long term	100 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Short term Inhalation	100 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	343 mg/kg	General	Systemic
	DNEL	Long term Dermal	bw/day 406 mg/kg bw/day	population Workers	Systemic

## **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 measured	res	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection		

# SECTION 8: Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
	Recommendations : Wear suitable gloves tested to EN374.
	< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
	1 - 4 hours (breakthrough time): polyvinyl alcohol (PVA) thickness > 0.3 mm or $4H$ / Silver Shield® gloves.
	> 8 hours (breakthrough time): Viton® thickness > 0.3 mm gloves
	Wash hands before breaks and immediately after handling the product.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
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	<ul> <li>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.</li> <li>Filter type: A</li> </ul>
	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	: Black.	
Odour	: Slight	
Odour threshold	: Not available.	
Melting point/freezing point	: Not available.	
Initial boiling point and boiling range	:	
Ingredient name	°C	°F
Butan-1-ol	119	246.2
n-Butyl acetate	126	258.8
Elammability (colid_gae)	Not available	

Flammability (solid, gas)	: Not available.
Upper/lower flammability or explosive limits	: Lower: 0.8% Upper: 11.3%
Flash point	: Closed cup: 25°C (77°F)
Auto-ignition temperature	:

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Method OECD 103

OECD 103

Ingredient name	°C	°F	Method	
Butan-1-ol	355	671	EU A.15	
n-Butyl acetate	415	779	EU A.15	
Decomposition temperature	: Not available.			
Н	: Not available.			
/iscosity	: Not available.			
Solubility(ies)	:			
Not available.				
Solubility in water	: Not available.			

	•		
Partition	coefficient: n-octanol/	1	Not applicable.

### water

## Vapour pressure

:					
Vapour Pressure at 20°C		ure at 20°C	Vapour pressure at 50°		
mm Hg	kPa	Method	mm Hg	kPa	Method
11.25	1.5	DIN EN 13016-2			
<7.5	<1	DIN EN 13016-2			
: Not	available.				
: 1.2	g/cm³				
: Not	available.				
: Not	available.				
: Not	available.				
: Not	applicable.				
	mm Hg 11.25 <7.5 : Not : 1.2 : Not : Not : Not	Vapour Press           mm Hg         kPa           11.25         1.5           <7.5	Vapour Pressure at 20°C         mm Hg       kPa       Method         11.25       1.5       DIN EN 13016-2         <7.5	Vapour Pressure at 20°C       Vapour Pressure at 20°C         mm Hg       kPa       Method       mm Hg         11.25       1.5       DIN EN 13016-2       000000000000000000000000000000000000	Vapour Pressure at 20°C       Vapour pressure at 20°C         mm Hg       kPa       Method       mm Hg       kPa         11.25       1.5       DIN EN 13016-2       Image: Colspan="3">Image: Colspan="3">Image: Colspan="3">Image: Colspan="3">Image: Colspan="3">Image: Colspan="3">Image: Colspan="3"         11.25       1.5       DIN EN 13016-2       Image: Colspan="3">Image: Colspan="3">Image: Colspan="3">Image: Colspan="3">Image: Colspan="3">Image: Colspan="3">Image: Colspan="3">Image: Colspan="3">Image: Colspan="3">Image: Colspan="3"         11.25       1.5       DIN EN 13016-2       Image: Colspan="3">Image: Colspan="3"         :       Not available.       :       1.2 g/cm <sup>3</sup> Image: Colspan="3"       Image: Colspan="3"         :       Not available.       :       Not available.       Image: Colspan="3"       Image: Colspan="3"         :       Not available.       :       Not available.       Image: Colspan="3"       Image: Colspan="3"         :       Not available.       :       Not available.       Image: Colspan="3"       Image: Colspan="3"         :       Not available.       :       Not available.       Image: Colspan="3"       Image: Colspan="3"         :       Not available.       :       Not available.       Image: Colspan="3"       Image: Colspan="3"         : <td< td=""></td<>

# 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 toxicological effects Acute toxicity

# **SECTION 11: Toxicological information**

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	-
Xylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Butan-1-ol	LC50 Inhalation Vapour	Rat	24000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
iso-butanol	LC50 Inhalation Vapour	Rat	19200 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	2460 mg/kg	-
Ethylbenzene	LC50 Inhalation Dusts and mists	Rat	29000 mg/l	4 hours
	LD50 Dermal	Rabbit	15400 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
n-butyl acrylate	LC50 Inhalation Gas.	Rat	2730 ppm	4 hours
	LD50 Oral	Rat	900 mg/kg	-
Styrene	LC50 Inhalation Gas.	Rat	2770 ppm	4 hours
-	LC50 Inhalation Vapour	Rat	11800 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	2650 mg/kg	-

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

## Acute toxicity estimates

Route	ATE value	
Dermal	49156.59 mg/kg 46228.84 mg/kg 462.29 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	-
				mg	
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
		Dabbit		mg	
Butan-1-ol	Eyes - Severe irritant	Rabbit	-	0.005 MI	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
	Skin - Moderate irritant	Rabbit	_	mg 24 hours 20	_
		Rabbit		mg	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	_	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
n-butyl acrylate	Eyes - Mild irritant	Rabbit	-	50 mg	-
, ,	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 10	-
				mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-
Styrene	Eyes - Mild irritant	Human	-	50 ppm	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Moderate irritant	Rabbit	-	100 %	-

# **SECTION 11: Toxicological information**

Conclusion/Summary	: Based on available data, the classification criteria are not met.
Mutagenicity	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.
<b>Teratogenicity</b>	
<b>Conclusion/Summary</b>	: Based on available data, the classification criteria are not met.

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
n-Butyl acetate	Category 3	-	Narcotic effects
Xylene	Category 3	-	Respiratory tract irritation
Butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
iso-butanol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
n-butyl acrylate	Category 3	-	Respiratory tract irritation
Styrene	Category 3	-	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

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

### **Aspiration hazard**

Product/ingredient name	Result		
Xylene	ASPIRATION HAZARD - Category 1		
Ethylbenzene	ASPIRATION HAZARD - Category 1		
Styrene	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	: No known significant effects or critical hazards.
Ingestion	: Can cause central nervous system (CNS) depression.

## Symptoms related to the physical, chemical and toxicological characteristics

pain or irritation watering redness	Eye contact	5
---	-------------	---

# **SECTION 11: Toxicological information**

lub a lation		
Inhalation	1	Adverse symptoms may include the following:
		nausea or vomiting headache
		drowsiness/fatigue
		dizziness/vertigo
		unconsciousness
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Delayed and immediate effe	cts	as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>		
Potential immediate	:	Not available.
effects		
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate	:	Not available.
effects		
Potential delayed effects	1	Not available.
Potential chronic health eff	iect:	<u>s</u>
Not available.		
Conclusion/Summary	:	Not available.
General	:	No known significant effects or critical hazards.
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.

### Other information

: Not available.

# SECTION 12: Ecological information

12.1 Toxicity **Product/ingredient name** Result Exposure **Species** n-Butyl acetate Acute LC50 32 mg/l Marine water Crustaceans - Brine shrimp -48 hours Artemia salina Fish - Fathead minnow -96 hours Acute LC50 18000 µg/l Fresh water Pimephales promelas Trizinc bis(orthophosphate) 72 hours Acute EC50 0.32 mg/l Algae - Selenastrum capricornutum Acute EC50 0.96 mg/l Crustaceans - Ceriodaphnia 48 hours dubia Daphnia - Water flea - Daphnia Butan-1-ol Acute EC50 1983000 µg/l Fresh water 48 hours magna Acute LC50 1730000 µg/l Fresh water 96 hours Fish - Fathead minnow -Pimephales promelas Crustaceans - Brine shrimp -48 hours iso-butanol Acute LC50 600 mg/l Marine water Artemia salina Daphnia - Water flea - Daphnia 48 hours Acute LC50 1030000 µg/l Fresh water magna - Neonate Acute LC50 1330000 µg/l Fresh water Fish - Rainbow trout, donaldson 96 hours trout - Oncorhynchus mykiss Styrene Algae - Green algae -72 hours Acute EC50 1400 µg/l Fresh water Pseudokirchneriella subcapitata 96 hours Acute EC50 720 µg/l Fresh water Algae - Green algae -Pseudokirchneriella subcapitata Acute EC50 4700 µg/l Fresh water Daphnia - Water flea - Daphnia 48 hours magna Acute LC50 52 mg/l Marine water Crustaceans - Brine shrimp -48 hours Artemia salina Date of issue/Date of revision : 16/11/2022 Date of previous issue : No previous validation Version :1 13/18

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Label No :34378

SECTION 12: Ecological information				
	Acute LC50 4020 µg/l Fresh water	Fish - Fathead minnow - Pimephales promelas	96 hours	
	Chronic NOEC 63 µg/l Fresh water	Algae - Green algae - Pseudokirchneriella subcapitata	96 hours	

Conclusion/Summary

: Toxic to aquatic life with long lasting effects.

## 12.2 Persistence and degradability

iso-butanol - 74 % - Readily - 28 days	Product/ingredient name	Test	Result	Dose	Inoculum
	iso-butanol	-	74 % - Readily - 28 days	-	-

**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
Trizinc bis(orthophosphate)	-	60960	high
Xylene	3.12	8.1 to 25.9	low
Butan-1-ol	1	-	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 13: Disposal considerations

13.1 Waste treatment method	ls
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)	: 080111*
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.

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3			
14.4 Packing group				
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional informa	tion		I	
ADR/RID	sizes	nvironmentally hazardo of ≤5 L or ≤5 kg. <b>el code</b> (D/E)	us substance mark is no	ot required when transported in
ADN	: The e	· · ·	us substance mark is no	ot required when transported in
IMDG	: The n	narine pollutant mark is	not required when trans	ported in sizes of ≤5 L or ≤5 k
ΙΑΤΑ		nvironmentally hazardo portation regulations.	us substance mark may	appear if required by other
14.6 Special precau user	uprigl		nat persons transporting	t in closed containers that are the product know what to do i
14.7 Transport in b according to IMO instruments	ulk : Not re	elevant/applicable due to	o nature of the product.	

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB) /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.

### **Ozone depleting substances**

Not listed.

## Prior Informed Consent (PIC)

Not listed.

#### **Persistent Organic Pollutants** Not listed.

# **SECTION 15: Regulatory information**

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

## Seveso Directive

This product is controlled under the Seveso Directive.

## Danger criteria

Category	
P5c E2	
EU regulations	
Industrial emissions (integrated pollution prevention and control) Air	: Not listed
Industrial emissions (integrated pollution prevention and control) Water	: Not listed
International regulations	
	ntion List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol Not listed.	
Stockholm Convention or Not listed.	Persistent Organic Pollutants
Rotterdam Convention on	Prior Informed Consent (PIC)
Not listed.	
UNECE Aarhus Protocol of Not listed.	on POPs and Heavy Metals
15.2 Chemical safety assessment	: This product contains substances for which Chemical Safety Assessments are still required.
SECTION 16: Other	information
Indicates information that	has changed from previously issued version.
Abbreviations and acronyms	: ATE = Acute Toxicity Estimate GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and

Appreviations and	. ATE - Addle Toxicity Estimate
acronyms	GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and
-	Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019
	No. 720 and amendments
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = GB 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	e the classification

<u>Procedure used to derive the classification</u>

SECTION 16: Other information		
Classification	Justification	
Flam. Liq. 3, H226	On basis of test data	
Eye Irrit. 2, H319	Calculation method	
STOT SE 3, H336	Calculation method	
Aquatic Chronic 2, H411	Calculation method	

#### Full text of abbreviated H statements

H225Highly flammable liquH226Flammable liquid andH302Harmful if swallowed.H304May be fatal if swallow	vapour. wed and enters airways.
H302 Harmful if swallowed.	wed and enters airways.
H304 May be fatal if swallow	
	1 I I.
H312 Harmful in contact wit	in skin.
H315 Causes skin irritation.	
H317 May cause an allergic	skin reaction.
H318 Causes serious eye d	lamage.
H319 Causes serious eye ir	ritation.
H332 Harmful if inhaled.	
H335 May cause respiratory	y irritation.
H336 May cause drowsines	s or dizziness.
H361 Suspected of damagi	ng fertility or the unborn child.
H372 Causes damage to or	gans through prolonged or repeated exposure.
H373 May cause damage to	o organs through prolonged or repeated exposure.
H400 Very toxic to aquatic I	ife.
H410 Very toxic to aquatic I	ife with long lasting effects.
H411 Toxic to aquatic life w	ith long lasting effects.
H412 Harmful to aquatic life	e with long lasting effects.
EUH066 Repeated exposure n	nay cause skin dryness or cracking.

## Full text of classifications

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
•	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
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
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	: 16/11/2022
revision	

Date of previous issue	: No previous validation
Version	: 1
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### Notice to reader

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

Date of issue/Date of revision: 16/11/20TEKNOHEAT 1180-00 - TS 0190 BLACK

: 16/11/2022 Date of previous issue