SAFETY DATA SHEET

Date of issue/Date of revision

: 23 October 2023

Version



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

1.1 Product identifier	
Product name	: SIGMATHERM 500 HK
Product code	: 00323919
Product description	1 () () () () () () () () () (
Product type	: Liquid.
Other means of identification	: Not available.
1.2 Relevant identified uses	s of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.

1.3 Details of the supplier of the safety data sheet

PPG Coatings Belgium BV/SRL Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311 Fax +32-33606435

e-mail address of person :

: Product.Stewardship.EMEA@ppg.com

responsible for this SDS

1.4 Emergency telephone number

Supplier

+31 20 4075210

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to UK CLP/GHS

Mam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 1B, H350 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.

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

2.2 Label elements

Hazard pictograms



Signal word

English (GB)

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SECTI	ON 2: Hazards identifica	ation	

Hazard statements	1	Fammable liquid and vapour. Causes skin irritation.
		Causes serious eye irritation.
		May cause drowsiness or dizziness.
		May cause cancer.
		Toxic to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.
Response	1	Collect spillage. IF exposed or concerned: Get medical advice or attention.
Storage	1	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
		P280, P210, P273, P391, P308 + P313, P501
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Restricted to professional users.
Special packaging requirem	er	<u>its</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

Ν	lixture			
3.2 Mixtures :				
Product/ingredient name	Identifiers	%	Classification	Туре
Solvent naphtha (petroleum), heavy arom. Nota(s) P ethylbenzene	REACH #: 01-2119451097-39 EC: 265-198-5 CAS: 64742-94-5 Index: 649-424-00-3 REACH #: 01-2119489370-35	≥10 - ≤25 ≥5.0 - <10	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066 Flam. Liq. 2, H225 Acute Tox. 4, H332	[1]
	EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4		STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	
Solvent naphtha (petroleum), light arom. Nota(s) P	REACH #: 01-2119486773-24 EC: 265-199-0 CAS: 64742-95-6	≥5.0 - ≤10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304	[1]
English (GB)	United P	Kingdom (UK)		2/

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SECTI	SECTION 3: Composition/information on ingredients				

	Index: 649-356-00-4		Aquatic Chronic 2, H411	
xylene	EC: 215-535-7 CAS: 1330-20-7	≥5.0 - ≤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 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
Naphtha (petroleum), hydrotreated heavy Nota(s) P	EC: 265-150-3 CAS: 64742-48-9 Index: 649-327-00-6	≥1.0 - ≤5.0	Flam. Liq. 3, H226 Asp. Tox. 1, H304 EUH066	[1]
1,2,4-trimethylbenzene	EC: 202-436-9 CAS: 95-63-6 Index: 601-043-00-3	≥1.0 - ≤5.0	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411	[1] [2]
cumene	REACH #: 01-2119473983-24 EC: 202-704-5 CAS: 98-82-8 Index: 601-024-00-X	≤0.30	Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[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.

Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. <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.

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid m	easures
Eye contact	: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
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.

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SECTION 4: First aid measures

4.2 Most important sympton	ns and effects, both acute and delayed
Potential acute health effect	<u>s</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation. Defatting to the skin.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/symp	<u>toms</u>
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 dryness cracking
Ingestion	: No specific data.
	ate medical attention and special treatment needed
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
SECTION 5: Firefigh	ting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
	rom 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 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.
	Use water spray to keep fire-exposed containers cool.

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SECTION 5: Firefighting measures

Special protective : Fire-fighters si breathing apparent for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and material for	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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	: Fut on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. 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.
	retain product residue and can be nazardous. Do not reuse container.

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SECTION 7: Handling and storage

	Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.
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 between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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).

Occupational exposure limits

Product/ingredient name	Exposure limit values
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: 441 mg/m ³ 8 hours.
	TWA: 100 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/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 220 mg/m³ 8 hours.
	TWA: 50 ppm 8 hours.
1,2,4-trimethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	[trimethylbenzenes, all isomers or mixtures]
	TWA: 125 mg/m³ 8 hours.
	TWA: 25 ppm 8 hours.
cumene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 250 mg/m ³ 15 minutes.
	STEL: 50 ppm 15 minutes.
	TWA: 125 mg/m ³ 8 hours.
	TWA: 25 ppm 8 hours.

Biological exposure indices

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure indices
xylene	XYLENES
	Id be made to appropriate monitoring standards. Reference to be documents for methods for the determination of hazardous also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Solvent naphtha (petroleum), heavy arom. Nota(s) P	DNEL	Long term Oral	0.03 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.28 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.69 mg/m ³	General population	Local
	DNEL	Long term Inhalation	0.69 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	0.95 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2.31 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	2.31 mg/m ³	Workers	Systemic
	DNEL	Short term Oral	25.6 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	143.5 mg/m³	General population	Local
	DNEL	Short term Inhalation	160.23 mg/m³	Workers	Local
	DNEL	Short term Inhalation	226 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	384 mg/m ³	Workers	Systemic
ethylbenzene	DNEL	Long term Oral	1.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	15 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	180 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	293 mg/m³	Workers	Local
	DMEL	Long term Inhalation	442 mg/m ³	Workers	Local
	DMEL	Short term Inhalation	884 mg/m³	Workers	Systemic
Solvent naphtha (petroleum), light arom. Nota(s) P	DNEL	Long term Inhalation	150 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	25 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	32 mg/m³	General population	Systemic
	DNEL	Long term Dermal	11 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	11 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.41 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	1.9 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	178.57 mg/m³	General population	Local
	DNEL	Short term Inhalation	640 mg/m³	General population	Local
	DNEL	Long term Inhalation	837.5 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	1066.67 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	1152 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	1286.4 mg/m ³	Workers	Systemic
xylene	DNEL	Short term Inhalation	260 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	260 mg/m ³	General population	Local
	DNEL	Long term Dermal	125 mg/kg bw/day	General population	
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	
	DNEL	Long term Oral	12.5 mg/kg bw/day	General population	
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
	DNEL DNEL	Long term Dermal	212 mg/kg bw/day	Workers General population	Systemic Local
		Long term Inhalation	65.3 mg/m ³		
	DNEL DNEL	Short term Inhalation	260 mg/m³ 260 mg/m³	General population	Local
	DNEL	Short term Inhalation	200 mg/m ³	General population Workers	Systemic
	DNEL	Long term Inhalation Long term Oral	-		Local Systemic
	DNEL		12.5 mg/kg bw/day	General population	
	DNEL	Long term Inhalation	65.3 mg/m ³	General population	Systemic Systemic
	DNEL	Long term Dermal	125 mg/kg bw/day	General population Workers	Systemic Systemic
	DNEL	Long term Dermal Long term Inhalation	212 mg/kg bw/day 221 mg/m³	Workers	Systemic Systemic

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SECTION 8: Exposure controls/personal protection

DNEL	Short term Inhalation	442 mg/m ³	Workers	Local
DNEL	Short term Inhalation	442 mg/m ³	Workers	Systemic
DNEL	Long term Inhalation	0.41 mg/m ³	General population	Systemic
DNEL	Long term Inhalation	1.9 mg/m³	Workers	Systemic
DNEL	Long term Inhalation	178.57 mg/m ³	General population	Local
DNEL	Long term Oral	300 mg/kg bw/day	General population	Systemic
DNEL	Long term Dermal	300 mg/kg bw/day	General population	Systemic
DNEL	Long term Dermal	300 mg/kg bw/day	Workers	Systemic
DNEL	Short term Inhalation	640 mg/m ³	General population	Local
DNEL	Long term Inhalation	837.5 mg/m ³	Workers	Local
DNEL	Short term Inhalation	1066.67 mg/m ³	Workers	Local
DNEL	Short term Inhalation	1152 mg/m ³	General population	Systemic
DNEL	Short term Inhalation	1286.4 mg/m ³	Workers	Systemic
DNEL	Long term Oral	15 mg/kg bw/day	General population	Systemic
DNEL	Short term Inhalation	29.4 mg/m ³	General population	Local
DNEL	Long term Inhalation	29.4 mg/m ³	General population	Local
DNEL	Short term Inhalation	29.4 mg/m ³	General population	Systemic
DNEL	Long term Inhalation	29.4 mg/m ³	General population	Systemic
DNEL	Short term Inhalation	100 mg/m ³	Workers	Local
DNEL	Long term Inhalation	100 mg/m ³	Workers	Local
DNEL	Short term Inhalation	100 mg/m ³	Workers	Systemic
DNEL	Long term Inhalation		Workers	Systemic
DNEL	Long term Dermal		General population	Systemic
DNEL	Long term Dermal		Workers	Systemic
DNEL			General population	Systemic
DNEL	0			Systemic
DNEL			Workers	Systemic
DNEL	Long term Inhalation		General population	Systemic
DNEL	Long term Inhalation	100 mg/m ³	Workers	Systemic
	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	DNELShort term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term OralDNELLong term DermalDNELLong term DermalDNELLong term InhalationDNELLong term InhalationDNELShort term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term InhalationDNELLong term DermalDNELLong term Inhalation	DNELShort term Inhalation442 mg/m³DNELLong term Inhalation0.41 mg/m³DNELLong term Inhalation1.9 mg/m³DNELLong term Inhalation178.57 mg/m³DNELLong term Oral300 mg/kg bw/dayDNELLong term Dermal300 mg/kg bw/dayDNELLong term Dermal300 mg/kg bw/dayDNELLong term Dermal300 mg/kg bw/dayDNELLong term Inhalation640 mg/m³DNELShort term Inhalation1066.67 mg/m³DNELShort term Inhalation1286.4 mg/m³DNELShort term Inhalation1286.4 mg/m³DNELShort term Inhalation29.4 mg/m³DNELShort term Inhalation29.4 mg/m³DNELShort term Inhalation29.4 mg/m³DNELLong term Inhalation29.4 mg/m³DNELLong term Inhalation29.4 mg/m³DNELLong term Inhalation100 mg/m³DNELLong term Inhalation100 mg/m³DNELLong term Inhalation100 mg/m³DNELLong term Dermal100 mg/m³DNELLong term Dermal102 mg/kg bw/dayDNELLong term Dermal104 mg/m³DNELLong term Dermal104 mg/m³DNELLong term Dermal104 mg/kg bw/dayDNELLo	DNEL DNELShort term Inhalation Long term Inhalation442 mg/m³ (0.41 mg/m³Workers General populationDNEL DNEL Long term Inhalation1.9 mg/m³ 300 mg/kg bw/day 300 mg/kg bw/day General populationGeneral populationDNEL DNEL Long term Dermal DNEL DNEL Long term Inhalation1.9 mg/m³ 300 mg/kg bw/day General populationGeneral populationDNEL DNEL Long term Dermal DNEL DNEL Short term Inhalation

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
ethylbenzene	Fresh water	0.1 mg/l	Assessment Factors
	Marine water	0.01 mg/l	Assessment Factors
	Sewage Treatment Plant	9.6 mg/l	Assessment Factors
	Fresh water sediment	13.7 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	1.37 mg/kg dwt	Equilibrium Partitioning
	Soil	2.68 mg/kg dwt	Equilibrium Partitioning
	Secondary Poisoning	20 mg/kg	-
xylene	Fresh water	0.327 mg/l	-
	Marine water	0.327 mg/l	-
	Sewage Treatment Plant	6.58 mg/l	-
	Fresh water sediment	12.46 mg/kg dwt	-
	Marine water sediment	12.46 mg/kg dwt	-
	Soil	2.31 mg/kg	-
cumene	Fresh water	0.035 mg/l	Assessment Factors
	Marine water	0.004 mg/l	Assessment Factors
	Sewage Treatment Plant	200 mg/l	Assessment Factors
	Fresh water sediment	3.22 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	0.322 mg/kg dwt	Equilibrium Partitioning
	Soil	0.624 mg/kg dwt	Equilibrium Partitioning

8.2 Exposure controls

controls

Appropriate engineering : 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

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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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection <u>Skin protection</u>	: Chemical splash goggles.
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. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
Gloves	: For prolonged or repeated handling, use the following type of gloves:
	May be used: nitrile rubber Recommended: polyvinyl alcohol (PVA), Viton®
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	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
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	: Aromatic.
Odour threshold	: Not available.
Melting point/freezing point	 May start to solidify at the following temperature: -43.77°C (-46.8°F) This is based on data for the following ingredient: 1,2,4-trimethylbenzene. Weighted average: -68.23°C (-90.8°F)

English (GB)	United Kingdom (UK)	9/17

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SECTI	SECTION 9: Physical and chemical properties						

SECTION 5. Physical a	inu chen	lical prop	eilles		
Initial boiling point and boiling range	: >37.78°	°C (>100°F)			
Flammability (solid, gas) Upper/lower flammability or explosive limits	iliquid Greates: heavy a	-	e: Lower: 0.6% Up	per: 7% (Solvent naphtha (petroleun	n),
Flash point	: Closed	cup: 34°C (93	.2°F)		
Auto-ignition temperature	:				
Ingredient name		°C	°F	Method	
		000 1. 050	100 1 100		

_				
Solvent naphtha (petroleum), heavy a	rom. Nota(s) P	220 to 250	428 to 482	ASTM E 659
Decomposition temperature	:			
рН	: Not app Not app	ilicable. Ilicable. insoluble ir	n water.	
Viscosity	: Kinema	tic (40°C): >21 mm	l²/s	
Solubility(ies)	:			
Media	Resu	lt		
cold water	Not so	bluble		

Miscible with water	:	No.
Partition coefficient: n-octanol/ water	:	Not applicable.

Vapour pressure

	Va	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
ethylbenzene	9.3	1.2					
Relative density	: 1.1		Į				
/apour density	: Highest known value: 4.1 (Air = 1) (1,2,4-trimethylbenzene). Weighted average 3.78 (Air = 1)						
apour density	•		value: 4.1 (Air =	1) (1,2,4-trimet	hylbenzene	e). Weighted averag	
	3.78 : The	8 (Air = 1) e product its		e, but the forma	2	e). Weighted average explosible mixture of	
Explosive properties Dxidising properties Particle characteristics	3.78 : The vap	8 (Air = 1) e product its our or dust	elf is not explosive	e, but the forma e.	2	,	

SECTION 10: Stability and reactivity

English (GB)	United Kingdom (UK)	10/17
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides	
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.	
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition pro Refer to protective measures listed in sections 7 and 8.	oducts.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
10.2 Chemical stability	: The product is stable.	
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredier	nts.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Solvent naphtha (petroleum), heavy arom. Nota(s) P	LC50 Inhalation Dusts and mists	Rat	>5.2 mg/l	4 hours
	LD50 Oral	Rat	>5 g/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
Solvent naphtha	LD50 Dermal	Rabbit	3.48 g/kg	-
(petroleum), light arom. Nota (s) P				
	LD50 Oral	Rat	8400 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Naphtha (petroleum), hydrotreated heavy Nota(s) P	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>6 g/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapour	Rat	18000 mg/m ³	4 hours
	LD50 Oral	Rat	5 g/kg	-
cumene	LC50 Inhalation Vapour	Rat	39000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	12.3 g/kg	-
	LD50 Oral	Rat	2260 mg/kg	-

Conclusion/Summary : There are no data available on the mixture itself.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMATHERM 500 HK	N/A	27831.9	N/A	77.0	N/A
ethylbenzene	3500	17800	N/A	17.8	N/A
Solvent naphtha (petroleum), light arom. Nota(s) P	8400	3480	N/A	N/A	N/A
xylene	4300	1700	N/A	11	N/A
1,2,4-trimethylbenzene	5000	N/A	N/A	18	N/A
cumene	2260	12300	N/A	39	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary	: Not available.		•		
Skin	: There are no data available on	the mixture its	elf.		
Eyes	: There are no data available on	the mixture its	elf.		
Respiratory <u>Sensitisation</u>	: There are no data available on the mixture itself.				
Conclusion/Summary					
Skin	: There are no data available on	the mixture its	elf.		
Respiratory	: There are no data available on	the mixture its	elf.		
<u>Mutagenicity</u>					
Conclusion/Summary	: There are no data available on	the mixture its	elf.		
Carcinogenicity					
Conclusion/Summary	: There are no data available on	the mixture its	elf.		
Reproductive toxicity					
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SECTION 11: Toxicological information

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Conclusion/Summary

: There are no data available on the mixture itself.

Teratogenicity

Conclusion/Summary

There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Solvent naphtha (petroleum), heavy arom. Nota(s) P	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), light arom. Nota(s) P xylene	Category 3 Category 3	-	Narcotic effects Respiratory tract
Хуюне	Category 5	-	irritation
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation
cumene	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

Product/ingredient name	Result
Solvent naphtha (petroleum), heavy arom. Nota(s) P ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light arom. Nota(s) P	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
Naphtha (petroleum), hydrotreated heavy Nota(s) P	ASPIRATION HAZARD - Category 1
cumene	ASPIRATION HAZARD - Category 1

Information on likely routes
of exposure: Not available.Potential acute health effectsEye contact: Causes serious eye irritation.Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness or
dizziness.Skin contact: Causes skin irritation. Defatting to the skin.Ingestion: Can cause central nervous system (CNS) depression.Symptoms related to the physical. chemical and toxicological characteristicsEye contact: Adverse symptoms may include the following:

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 dryness cracking

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SECTION 11: Toxicological information

Ingestion

: No specific data.

Delayed and immediate effect	ts as well as chronic effects from short and long-term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
Conclusion/Summary	: Not available.
General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis.
Carcinogenicity	: M ay cause cancer. Risk of cancer depends on duration and level of exposure.
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	Species	Exposure
Solvent naphtha (petroleum), heavy arom. Nota(s) P	NOEL 0.48 mg/l Fresh water	Daphnia	21 days
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - Ceriodaphnia dubia	48 hours -
Solvent naphtha (petroleum), light arom. Nota(s) P		Fish	96 hours
Conclusion/Summary	: Not available.	·	•

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10	days	-	-
Conclusion/Summary	: Not available.	•		•	•
Product/ingredient name	Aquatic half-life		Photolysis	5	Biodegradability
ethylbenzene xylene	-		-		Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Solvent naphtha (petroleum), heavy arom. Nota(s) P	2.8 to 6.5	-	High
ethylbenzene	3.6	79.43	Low
xylene	3.12	7.4 to 18.5	Low
1,2,4-trimethylbenzene cumene	3.63	120.23	Low
	3.55	35.48	Low

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SECTION 12: Ecological information

12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
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.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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).

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	: Yes.

Hazardous waste Waste catalogue

Waste code	Waste designation	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	
Packaging		
Methods of disposal	 hods of disposal The generation of waste should be avoided or minimised wherever possible. W packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 	
Type of packaging	Waste catalogue	
Container	15 01 06 mixed packaging	

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 UN1263 UN1263 UN1263 UN1263 PAINT 14.2 UN proper PAINT PAINT PAINT shipping name 3 14.3 Transport 3 3 3 hazard class(es) 14.4 Packing Ш ш Ш Ш group 14/17 English (GB) United Kingdom (UK)

Marine pollutant substances Not applicable. Not applicable. (Solvent naphtha (petroleum), heavy aromatic, Solvent naphtha (petroleum), light aromatic) mark is not required. Not applicable. Additional information ADR/RID : The environmentally hazardous substance mark is not required when transported in sizes of \$5 L ct \$5 kg. Tunnel code : (D/E) ADN :: The environmentally hazardous substance mark is not required when transported in sizes of \$5 L ct \$5 kg. IMDG :: The environmentally hazardous substance mark is not required when transported in sizes of \$5 L ot \$5 kg. IMDG :: The environmentally hazardous substance mark may appear if required by other transportation regulations. 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 Transport in bulk according to IMO instruments : Not available. SECTION 15: Regulatory information	Code : 00323919 Date of issue/Date of revision : 23 Octobe SIGMATHERM 500 HK			23 October 2023	
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Category	•	trolled under the Seveso	Directive.		

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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 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 vDvB = Vorv Description and Vorv Piezeeumulative
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Carc. 1B, H350	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

⊮ 225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 1B	CARCINOGENICITY - Category 1B
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

<u>History</u>

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<u>Disclaimer</u>	

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: 23 October 2023

SECTION 16: Other information

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