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

# **SAFETY DATA SHEET**



**TEKNOHEAT 400 - All variants** 

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

1.1 Product identifier Product name

 $\square$ 

: FEKNOHEAT 400 - 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
 : National Poisons Information Centre: 01 809 2566

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

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373

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

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

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

#### 2.2 Label elements

Hazard pictograms



Signal word	rning	
Hazard statements	26 - Flammable liquid and vapour. 5 - Causes skin irritation. 9 - Causes serious eye irritation. 25 - May cause respiratory irritation. 73 - May cause damage to organs through prolonged or repea	ated exposure.
Precautionary statements		
Prevention	<ul> <li>0 - Wear protective gloves. Wear eye or face protection.</li> <li>0 - Keep away from heat, hot surfaces, sparks, open flames rces. No smoking.</li> <li>0 - Do not breathe vapour.</li> </ul>	and other ignition

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# **SECTION 2: Hazards identification**

	identification
Response	: P314 - Get medical advice/attention if you feel unwell.
Storage	: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: Contains: Xylene
Supplemental label elements	: Contains Cobalt bis(2-ethylhexanoate). May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:
2.3 Other hazards	
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: None known.

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

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
¥ylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥25 - ≤45	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]
Ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤9.9	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]
iso-butanol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	<3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
Naphtha (petroleum), hydrotreated heavy	REACH #: 01-2119463258-33 EC: 265-150-3 CAS: 64742-48-9 Index: 649-327-00-6	≤3	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066	EUH066: C ≥ 50%	[1]
Cobalt bis (2-ethylhexanoate)	REACH #: 01-2119524678-29 EC: 205-250-6 CAS: 136-52-7	<0.1	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Repr. 1B, H360FD Aquatic Acute 1, H400 Aquatic Chronic 3,	M [Acute] = 1	[1] [2]
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# SECTION 3: Composition/information on ingredients H412 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. <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 n	.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	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.</li> </ul>					
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 following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.					
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.					

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

Over-exposure signs/symptoms					
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness				
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing				
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

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# SECTION 4: First aid measures 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: Firefighting measures 5.1 Extinguishing media

Suitable extinguishing media 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 fr	m 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.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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

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

Small spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and<br/>explosion-proof equipment. Dilute with water and mop up if water-soluble.<br/>Alternatively, or if water-insoluble, absorb with an inert dry material and place in an<br/>appropriate waste disposal container. Dispose of via a licensed waste disposal<br/>contractor.

#### SECTION 6: Accidental release measures

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). Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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. Risk of self-ignition of used cleaning rags, paper wipes etc. Contaminated materials should be soaked in water and placed in a closed metal container before disposal.
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

Category	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.

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#### **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
Kylene	NAOSH (Ireland, 5/2021). [xylene mixed isomers] Absorbed
	through skin. Notes: EU derived Occupational Exposure Limit
	Values
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 221 mg/m <sup>3</sup> 8 hours.
	OELV-15min: 100 ppm 15 minutes.
	OELV-15min: 442 mg/m <sup>3</sup> 15 minutes.
Ethylbenzene	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU
	derived Occupational Exposure Limit Values
	OELV-8hr: 100 ppm 8 hours.
	OELV-8hr: 442 mg/m <sup>3</sup> 8 hours.
	OELV-15min: 200 ppm 15 minutes.
	OELV-15min: 884 mg/m <sup>3</sup> 15 minutes.
iso-butanol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational
	Exposure Limit Values (OELVs)
	OELV-8hr: 50 ppm 8 hours.
	OELV-8hr: 150 mg/m <sup>3</sup> 8 hours.
	OELV-15min: 75 ppm 15 minutes.
	OELV-15min: 225 mg/m <sup>3</sup> 15 minutes.
Cobalt bis(2-ethylhexanoate)	NAOSH (Ireland, 5/2021). [Cobalt and cobalt compounds as Co]
	Sensitization potential. Notes: Advisory Occupational
	Exposure Limit Values (OELVs)
	OELV-8hr: 0.02 mg/m³, (as Co) 8 hours.

#### **Biological exposure indices**

Product/ingredient	name		Exposure indi	ces	
₩ylene		NAOSH (Ireland, 1/201 BMGV: 1.5 g/g creatin Sampling time: end of s ceases.	nine, methylhippu		re
Ethylbenzene		NAOSH (Ireland, 1/201 BMGV: Semi-quantita exposure to the substant measurement is ambig screening test if a quant confirmatory test if the of of the determinant is in Sampling time: not critic BMGV: 0.7 g/g creatint analyte is an indicator of quantitative interpretation These analytes should test is not practical; or a is not specific and the of mandelic acid and phere end of shift at end of wor	tive, the biologica nce but the quan uous. These ana atitative test is not quantitative test i question., ethylb cal. nine [Semi-quanti of exposure to the on of the measur be used as a scr as a confirmatory origin of the deter nylglyoxylic acid [	lytes should be used a t practical; or as a s not specific and the o enzene [in endexhaled tative, the biological e substance but the ement is ambiguous. eening test if a quantita t test if the quantitative minant is in question.],	f the is a origin d air]. ative test
Recommended monitoring : procedures	European S assessment values and r atmosphere of exposure (Workplace	hould be made to monitorin andard EN 689 (Workplace of exposure by inhalation to neasurement strategy) Eur s - Guide for the application to chemical and biological a atmospheres - General req surement of chemical agent	e atmospheres - ( o chemical agent ropean Standard and use of proce agents) Europea uirements for the	Guidance for the s for comparison with I EN 14042 (Workplace edures for the assessn n Standard EN 482 performance of proce	nent
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## **SECTION 8: Exposure controls/personal protection**

documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Ethylbenzene	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Long term Inhalation Short term Inhalation Short term Inhalation Long term Inhalation Long term Oral Long term Dermal Long term Dermal Long term Dermal Long term Inhalation Short term Inhalation Short term Inhalation	65.3 mg/m <sup>3</sup> 260 mg/m <sup>3</sup> 260 mg/m <sup>3</sup> 221 mg/m <sup>3</sup> 12.5 mg/ kg bw/day 65.3 mg/m <sup>3</sup> 125 mg/kg bw/day 212 mg/kg bw/day 221 mg/m <sup>3</sup> 442 mg/m <sup>3</sup>	population General population General population Workers General population	Local Local Systemic Local Systemic Systemic Systemic Systemic Systemic Local
Ethylbenzene	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Short term Inhalation Short term Inhalation Long term Inhalation Long term Oral Long term Dermal Long term Dermal Long term Inhalation Short term Inhalation Short term	260 mg/m <sup>3</sup> 221 mg/m <sup>3</sup> 12.5 mg/ kg bw/day 65.3 mg/m <sup>3</sup> 125 mg/kg bw/day 212 mg/kg bw/day 221 mg/m <sup>3</sup> 442 mg/m <sup>3</sup>	General population General population Workers General population General population Workers Workers	Systemic Local Systemic Systemic Systemic Systemic Systemic
Ethylbenzene	DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Inhalation Short term Inhalation Long term Inhalation Long term Oral Long term Dermal Long term Dermal Long term Dermal Long term Inhalation Short term Inhalation Short term	260 mg/m <sup>3</sup> 221 mg/m <sup>3</sup> 12.5 mg/ kg bw/day 65.3 mg/m <sup>3</sup> 125 mg/kg bw/day 212 mg/kg bw/day 221 mg/m <sup>3</sup> 442 mg/m <sup>3</sup>	population General population Workers General population General population Workers Workers	Systemic Local Systemic Systemic Systemic Systemic Systemic
Ethylbenzene	DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Short term Inhalation Long term Inhalation Long term Oral Long term Inhalation Long term Dermal Long term Dermal Long term Inhalation Short term Inhalation Short term	221 mg/m <sup>3</sup> 12.5 mg/ kg bw/day 65.3 mg/m <sup>3</sup> 125 mg/kg bw/day 212 mg/kg bw/day 221 mg/m <sup>3</sup> 442 mg/m <sup>3</sup>	General population Workers General population General population Workers Workers	Local Systemic Systemic Systemic Systemic Systemic
Ethylbenzene	DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Inhalation Long term Inhalation Long term Oral Long term Inhalation Long term Dermal Long term Inhalation Short term Inhalation Short term	221 mg/m <sup>3</sup> 12.5 mg/ kg bw/day 65.3 mg/m <sup>3</sup> 125 mg/kg bw/day 212 mg/kg bw/day 221 mg/m <sup>3</sup> 442 mg/m <sup>3</sup>	population Workers General population General population Workers Workers	Local Systemic Systemic Systemic Systemic Systemic
Ethylbenzene	DNEL DNEL DNEL DNEL DNEL DNEL	Long term Inhalation Long term Oral Long term Inhalation Long term Dermal Long term Inhalation Short term Inhalation Short term	12.5 mg/ kg bw/day 65.3 mg/m <sup>3</sup> 125 mg/kg bw/day 212 mg/kg bw/day 221 mg/m <sup>3</sup> 442 mg/m <sup>3</sup>	Workers General population General population General population Workers	Systemic Systemic Systemic Systemic Systemic
Ethylbenzene	DNEL DNEL DNEL DNEL DNEL DNEL	Inhalation Long term Oral Long term Inhalation Long term Dermal Long term Dermal Inhalation Short term Inhalation Short term	12.5 mg/ kg bw/day 65.3 mg/m <sup>3</sup> 125 mg/kg bw/day 212 mg/kg bw/day 221 mg/m <sup>3</sup> 442 mg/m <sup>3</sup>	General population General population General population Workers	Systemic Systemic Systemic Systemic Systemic
Ethylbenzene	DNEL DNEL DNEL DNEL DNEL DNEL	Long term Oral Long term Inhalation Long term Dermal Long term Dermal Inhalation Short term Inhalation Short term	kg bw/day 65.3 mg/m <sup>3</sup> 125 mg/kg bw/day 212 mg/kg bw/day 221 mg/m <sup>3</sup> 442 mg/m <sup>3</sup>	population General population General population Workers Workers	Systemic Systemic Systemic Systemic
Ethylbenzene	DNEL DNEL DNEL DNEL DNEL DNEL	Long term Inhalation Long term Dermal Long term Dermal Inhalation Short term Inhalation Short term	kg bw/day 65.3 mg/m <sup>3</sup> 125 mg/kg bw/day 212 mg/kg bw/day 221 mg/m <sup>3</sup> 442 mg/m <sup>3</sup>	population General population General population Workers Workers	Systemic Systemic Systemic Systemic
Ethylbenzene	DNEL DNEL DNEL DNEL DNEL	Inhalation Long term Dermal Long term Dermal Inhalation Short term Inhalation Short term	65.3 mg/m <sup>3</sup> 125 mg/kg bw/day 212 mg/kg bw/day 221 mg/m <sup>3</sup> 442 mg/m <sup>3</sup>	General population General population Workers Workers	Systemic Systemic Systemic
Ethylbenzene	DNEL DNEL DNEL DNEL DNEL	Inhalation Long term Dermal Long term Dermal Inhalation Short term Inhalation Short term	125 mg/kg bw/day 212 mg/kg bw/day 221 mg/m <sup>3</sup> 442 mg/m <sup>3</sup>	population General population Workers Workers	Systemic Systemic Systemic
Ethylbenzene	DNEL DNEL DNEL DNEL	Long term Dermal Long term Dermal Long term Inhalation Short term Inhalation Short term	bw/day 212 mg/kg bw/day 221 mg/m <sup>3</sup> 442 mg/m <sup>3</sup>	General population Workers Workers	Systemic Systemic
Ethylbenzene	DNEL DNEL DNEL DNEL	Long term Dermal Long term Inhalation Short term Inhalation Short term	bw/day 212 mg/kg bw/day 221 mg/m <sup>3</sup> 442 mg/m <sup>3</sup>	population Workers Workers	Systemic Systemic
Ethylbenzene	DNEL DNEL DNEL	Long term Inhalation Short term Inhalation Short term	212 mg/kg bw/day 221 mg/m <sup>3</sup> 442 mg/m <sup>3</sup>	Workers Workers	Systemic
Ethylbenzene	DNEL DNEL DNEL	Long term Inhalation Short term Inhalation Short term	bw/day 221 mg/m <sup>3</sup> 442 mg/m <sup>3</sup>	Workers	Systemic
Ethylbenzene	DNEL DNEL	Inhalation Short term Inhalation Short term	221 mg/m <sup>3</sup> 442 mg/m <sup>3</sup>		-
Ethylbenzene	DNEL DNEL	Inhalation Short term Inhalation Short term	442 mg/m <sup>3</sup>		-
Ethylbenzene	DNEL	Short term Inhalation Short term		Workers	local
Ethylbenzene	DNEL	Inhalation Short term		Workers	Local
Ethylbenzene		Short term			Local
Ethylbenzene			112 malm3		
Ethylbenzene			442 mg/m <sup>3</sup>	Workers	Systemic
Ethylbenzene	DNEL				-
-	Î.	Long term Oral	1.6 mg/kg	General	Systemic
	1	U U	bw/day	population	-
	DNEL	Long term	15 mg/m <sup>3</sup>	General	Systemic
		Inhalation	U U	population	
	DNEL	Long term	77 mg/m³	Workers	Systemic
		Inhalation	<u> </u>		,
	DNEL	Long term Dermal	180 mg/kg	Workers	Systemic
			bw/day		-,
	DNEL	Short term	293 mg/m <sup>3</sup>	Workers	Local
	DITE	Inhalation	200 mg/m	TT OTTOOL	Loodi
	DMEL	Long term	442 mg/m <sup>3</sup>	Workers	Local
	DIVILL	Inhalation	112 mg/m	TT ON OF	Loodi
	DMEL	Short term	884 mg/m <sup>3</sup>	Workers	Systemic
	DIVICE	Inhalation	oo i mg/m	TT ON TO T	Cyclonno
iso-butanol	DNEL		55 mg/m³	General	Local
SO-Bulanoi	DINEL	Inhalation	55 mg/m	population	Local
	DNEL	Long term	310 mg/m <sup>3</sup>	Workers	Local
	DINCL	Inhalation	5 to mg/m	WOIKEIS	LUCAI
Naphtha (petroleum), hydrotreated	DNEL		0.41 mg/m <sup>3</sup>	General	Systemic
heavy		Long term Inhalation	5. <del>-</del> 1 mg/m	population	Cysternic
icavy	DNEL	Long term	1.9 mg/m <sup>3</sup>	Workers	Systemic
	DINCL	Inhalation	1.9 mg/m	VINCIS	Systemic
	DNEL	Long term	178.57 mg/	General	Local
	DIVEL	Inhalation	m <sup>3</sup>	population	LUCAI
					Svotomia
	DNEL	Long term Oral	300 mg/kg	General	Systemic
		Long term Derme	bw/day	population Conoral	Svotomia
	DNEL	Long term Dermal	300 mg/kg	General	Systemic
		Long torns Dorns -	bw/day	population	Curata main
	DNEL	Long term Dermal	300 mg/kg	Workers	Systemic
		Chart tarm	bw/day	Concret	
	DNEL	Short term	640 mg/m <sup>3</sup>	General	Local
		Inhalation	0075	population	
	DNEL	Long term	837.5 mg/	Workers	Local
	<b></b> .	Inhalation	m <sup>3</sup>		
	DNEL	Short term	1066.67	Workers	Local
		Inhalation	mg/m³		
	DNEL	Short term	1152 mg/	General	Systemic
		Inhalation	m³	population	
	ļ				

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SECTION 8: Exposure co	ontrols/p	personal prot	ection		
	DNEL	Short term Inhalation	1286.4 mg/ m <sup>3</sup>	Workers	Systemic
Cobalt bis(2-ethylhexanoate)	DNEL	Long term Inhalation	37 µg/m³	General population	Local
	DNEL	Long term Oral	175 µg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	235.1 µg/ m³	Workers	Local

#### **PNECs**

No PNECs available

8.2 Exposure controls		
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measur	es	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection		
Hand protection	-	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
		Recommendations : Wear suitable gloves tested to EN374.
		< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
		1 - 4 hours (breakthrough time): polyvinyl alcohol (PVA) thickness > 0.3 mm or $4H$ / Silver Shield® gloves.
		> 8 hours (breakthrough time): Viton® thickness > 0.3 mm gloves
		Wash hands before breaks and immediately after handling the product.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Filter type: A Filter type (spray application): A P
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#### **SECTION 8: Exposure controls/personal protection**

Environmental exposure	
controls	

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **SECTION 9: Physical and chemical properties**

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

#### 9.1 Information on basic physical and chemical properties

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

	Ingredient name	°C	°F	Method
Ī	<b>js</b> o-butanol	108	226.4	OECD 103
	Ethylbenzene	136.1	277	OECD 104

Flammability	: Not available.
Lower and upper explosion limit	: <b>∠</b> ower: 0.8% Upper: 7.6%
Flash point	: Closed cup: 25°C (77°F)
Auto-ignition temperature	

#### Auto-ignition temperature

Ingredient name	°C	°F	Method
Maphtha (petroleum), hydrotreated heavy	280 to 470	536 to 878	
iso-butanol	415	779	

Decomposition temperature	: Not available.
рН	: Not applicable.
Viscosity	: Kinematic (40°C): >20.5 mm²/s
Solubility(ies)	1
Not available.	
Solubility in water	: Not available.
Partition coefficient: n-octanol/ water	: Not applicable.

2

#### Vapour pressure

	Va	Vapour Pressure at 20°C			Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
j <mark>s</mark> o-butanol	<12.00102	<1.6	DIN EN 13016-2					
Ethylbenzene	9.30076	1.2						
Relative density	: Not	available.	•					
Density	: 1.1	g/cm³						
/apour density	: Not	available.						
Explosive properties	: Not	: Not available.						
Dxidising properties	: Not	: Not available.						
Particle characteristics								
Median particle size	: Not	applicable.						

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SECTION 10: Stabilit	reactivity	
10.1 Reactivity	specific test data related to reactivity ava	ailable for this product or its ingredients.
10.2 Chemical stability	product is stable.	
10.3 Possibility of hazardous reactions	ler normal conditions of storage and use	e, hazardous reactions will not occur.
10.4 Conditions to avoid	id all possible sources of ignition (spark ze, solder, drill, grind or expose containe	
10.5 Incompatible materials	ictive or incompatible with the following r lising materials	materials:
10.6 Hazardous decomposition products	ler normal conditions of storage and use uld not be produced.	e, hazardous decomposition products

## **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
<b>X</b> ylene	LC50 Inhalation Vapour	Rat	21.7 mg/l	4 hours
-	LD50 Oral	Rat	4300 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	-
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	-
Naphtha (petroleum), hydrotreated heavy	LC50 Inhalation Vapour	Rat	8500 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	>6 g/kg	-
Cobalt bis(2-ethylhexanoate)	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	1.22 g/kg	-

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

#### Acute toxicity estimates

Route	ATE value
	2857.55 mg/kg 23.42 mg/l

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
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	-
				mg	
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
Conclusion/Summary	: Causes skin irritation.				
<u>Sensitisation</u>					
Conclusion/Summary	: Based on available data, the	ne classification o	riteria are	e not met.	
<u>Mutagenicity</u>					
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				L also L I	

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# SECTION 11: Toxicological information Conclusion/Summary : Based on available data, the classification criteria are not met. Carcinogenicity : Based on available data, the classification criteria are not met. Conclusion/Summary : Based on available data, the classification criteria are not met. Reproductive toxicity : Based on available data, the classification criteria are not met. Teratogenicity : Based on available data, the classification criteria are not met. Teratogenicity : Based on available data, the classification criteria are not met. Specific target organ toxicity (single exposure) : Based on available data, the classification criteria are not met.

Product/ingredient name	Category	Route of exposure	Target organs
Xylene	Category 3	-	Respiratory tract irritation
iso-butanol	Category 3	-	Respiratory tract irritation
Naphtha (petroleum), hydrotreated heavy	Category 3 Category 3	-	Narcotic effects Narcotic effects

#### 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

#### Aspiration hazard

Product/ingredient name	Result	
Xylene	ASPIRATION HAZARD - Category 1	
Ethylbenzene	ASPIRATION HAZARD - Category 1	
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Category 1	

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

#### of exposure

#### Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.

#### 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: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

Delayed and immediate effec	ts as well as ch	nronic effects from sho	ort and long-term e	xposure	
Short term exposure					
Potential immediate effects	: Not available	Э.			
Potential delayed effects	: Not available	Э.			
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# **SECTION 11: Toxicological information**

Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
Not available.	
Conclusion/Summary	: Not available.
General	: May cause damage to organs through prolonged or repeated exposure.
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	
jso-butanol	Acute LC50 600 mg/l Marine water Acute LC50 1030000 μg/l Fresh water Acute LC50 1330000 μg/l Fresh water	Crustaceans - <i>Artemia salina</i> Daphnia - <i>Daphnia magna</i> - Neonate Fish - <i>Oncorhynchus mykiss</i>	48 hours 48 hours 96 hours	
Conclusion/Summary	: Based on available data, the classification criteria are not met.			

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
iso-butanol	-	74 % - Readily - 28	days	-	-
Conclusion/Summary	: This product has not been tested for biodegradation.				
Product/ingredient name	Aquatic half-life		Photolysis	5	Biodegradability
iso-butanol	-		-		Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
<b>X</b> ylene	3.12	8.1 to 25.9	Low
Ethylbenzene	3.6	-	Low
iso-butanol	1	-	Low
Naphtha (petroleum),	-	10 to 2500	High
hydrotreated heavy			_
Cobalt bis(2-ethylhexanoate)	-	15600	High

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.

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#### 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	<ul> <li>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.</li> <li>Risk of self-ignition of used cleaning rags, paper wipes etc. Contaminated materials should be soaked in water and placed in a closed metal container before disposal.</li> </ul>
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
European waste catalogue (EWC)	: 080111*, 200127*
Packaging	
Methods of disposal	<ul> <li>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.</li> </ul>
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.

	-			i
	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	111	111		111
14.5 Environmental hazards	No.	No.	No.	No.
hazards				
Additional informa		<b></b> . <del>.</del> .		
ADR/RID	: <u>Viscous</u>	s liquid exception This	class 3 viscous liquid is	not subject to regu

: <u>Viscous liquid exception</u> This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.

Tunnel code (D/E)

SECTION 14: Transport information					
ADN	: <u>Viscous liquid exception</u> This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.				
IMDG	: <u>Viscous liquid exception</u> This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.				
14.6 Special precautions for user	: <b>Transport within user's premises:</b> 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 instruments	: Not relevant/applicable due to nature of the product.				
SECTION 15: Dogulo	standinformation				

#### SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

#### Annex XIV - List of substances subject to authorisation

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

# Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name		%	Designation [Usage]			
FEKNOHEAT 400		≥90	3			
Labelling	:	•				
Other EU regulations						
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed					
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed					
Explosive precursors	Explosive precursors : Not applicable.					
Ozone depleting substance	<u>s (1005/2009/E</u>	<u>U)</u>				
Not listed.	Not listed.					
Prior Informed Consent (PI	<u>C) (649/2012/E</u>	<u>U)</u>				
Not listed.						
Persistent Organic Pollutan Not listed.	<u>its</u>					
Seveso Directive						
This product is controlled und	ler the Seveso l	Directive.				
Danger criteria						
Category						
P5c						
International regulations						
Chemical Weapon Convention	on List Schedu	<u>les I, II &amp;</u>	III Chemicals			

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

**Montreal Protocol** 

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

15.2 Chemical safety :	This product contains substances for which Chemical Safety Assessments are still
assessment	required.

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

Indicates information that has changed from previously issued version.

	5 1 5
Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 2, H373	Calculation method

#### Full text of abbreviated H statements

<b>⊮</b> 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.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360FD	May damage fertility. May damage the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

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

Acute Tox. 4	ACUTE TOXICITY - Category 4	
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1	
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	
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	
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1A	SKIN SENSITISATION - Category 1A	
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	
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#### Notice to reader

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

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