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

1.1. Product identifier

Product Name: Kluthe Lösol 80
Article number: 066110330000

CAS No:

REACH registration number: 01-2119475514-35

Hazard components for labeling:

Contains hydrocarbons, C6 - 7, n-alkanes, i-alkanes, cyclics, < 5% n-Hexane

1.2. Relevant identified uses of the substance or mixture and uses advised against

Product categories [PC]: PC9 - Coatings and paints, fillers, putties, thinners

PC 0.56 - Solvent

1.3. Details of the supplier of the safety data sheet

Supplier: conti coatings GmbH & Co. KG

Feldstrasse 55

D - 46149 Oberhausen Telefon: +49 208/ 9948-0 Telefax: +49 208/ 650625 www.conticoatings.com

E-mail address sds.ob@conticoatings.com

1.4. Emergency telephone number

Emergency Telephone: +49 177 / 214 4737 (24 h)

Emergency Telephone - §45 - (EC)1272/2008					
Europe	112				
Austria	+43 1 406 43 43 (Giftinformationszentrale)				

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Flammable liquids	Category 2 - (H225)
Aspiration hazard	Category 1 - (H304)
Skin corrosion/irritation	Category 2 - (H315)
Specific target organ toxicity (single exposure)	Category 3 - (H336)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

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Signal word: Danger

Hazard components for labeling:

Contains hydrocarbons, C6 - 7, n-alkanes, i-alkanes, cyclics, < 5% n-Hexane

Hazard statements:

H225 - Highly flammable liquid and vapor.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statements - EU (§28, 1272/2008):

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor

P331 - Do NOT induce vomiting

P391 - Collect spillage

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P370 + P378 - In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Additional information

This product requires child resistant fastenings when supplied to the general public unless the product is placed on the market in the form of aerosols or in a container with a sealed spray attachment. Placed on the market in aerosol containers or in containers fitted with a sealed spray attachment.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	CAS No	EC No	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight-%
hydrocarbons, C6 - 7,	-	921-024-6	01-2119475514-35	Flam. Liq. 2 (H225)	90 - 100

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n-alkanes, i-alkanes, cyclics, <	Asp. Tox. 1 (H304)
5% n-Hexane	Skin Irrit. 2 (H315)
	STOT SE 3 (H336)
	Aquatic Chronic 2
	(H411)

Acute Toxicity Estimate:

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg		Inhalation LC50 - 4 hour - vapor - mg/L	
hydrocarbons, C6 - 7, n-alkanes, i-alkanes, cyclics, < 5% n-Hexane -	5001	No data available	No data available	No data available	No data available

hazardous components above-mentioned substances/ substance mixtures:

Chemical name	CAS No	EC No	REACH registration	Classification according	Weight-%
			number	to Regulation (EC) No. 1272/2008 [CLP]	Ŭ
Cyclohexane 110-82-7	110-82-7	203-806-2	01-2119463273-41	Flam. Liq. 2 (H225) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) STOT SE 3 (H336) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	10 - < 25
Hexane 110-54-3	110-54-3	203-777-6	01-2119480412-44	Flam. Liq. 2 (H225) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) STOT SE 3 (H336) Repr. 2 (H361f) STOT RE 2 (H373) Aquatic Chronic 2 (H411)	1 - < 3

Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice: Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Inhalation: Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing

has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical advice/attention.

Delayed pulmonary edema may occur.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Keep eye wide open while rinsing. Do not rub affected area.

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Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Get medical attention if irritation develops and persists.

Ingestion: Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Get immediate medical advice/attention.

Self-protection of the first aider: Remove all sources of ignition. Ensure that medical personnel are aware of the

material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid direct contact with skin. Use barrier to give mouth-to-mouth

resuscitation. Avoid contact with skin, eyes or clothing.

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

Symptoms: Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Inhalation of high vapor

concentrations may cause symptoms like headache, dizziness, tiredness, nausea and

vomiting.

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

Note to physicians: Because of the danger of aspiration, emesis or gastric lavage should not be employed

unless the risk is justified by the presence of additional toxic substances.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Large Fire: CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical:

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters:

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all

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ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled

material.

Other information: Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

For emergency responders: Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions: Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or

spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment: Stop leak if you can do it without risk. Do not touch or walk through spilled material. A

vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up: Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labeled containers.

Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections: See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling



Advice on safe handling: Use personal protection equipment. Avoid breathing vapors or mists. Keep away from

heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. In case of

insufficient ventilation, wear suitable respiratory equipment.

General hygiene considerations: Do not eat, drink or smoke when using this product. Contaminated work clothing should

not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the

product. Wear suitable gloves and eye/face protection.

7.2. Conditions for safe storage, including any incompatibilities

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Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked

up. Keep out of the reach of children. Store away from other materials.

7.3. Specific end use(s)

Other information: No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits:

Chemical name	European Union	Germany	Netherlands	Spain	United Kingdom	Hungary
Cyclohexane	TWA: 200 ppm	TWA: 200 ppm	TWA: 700 mg/m ³	TWA: 200 ppm	TWA: 100 ppm	TWA: 700 mg/m ³
110-82-7	TWA: 700 mg/m ³	TWA: 700 mg/m ³	STEL: 1400	TWA: 700 mg/m ³	TWA: 350 mg/m ³	
			mg/m³		STEL: 300 ppm	
					STEL: 1050	
					mg/m³	
Hexane	TWA: 20 ppm	TWA: 50 ppm	TWA: 72 mg/m ³	TWA: 20 ppm	TWA: 20 ppm	TWA: 72 mg/m ³
110-54-3	TWA: 72 mg/m ³	TWA: 180 mg/m ³	STEL: 144 mg/m ³	TWA: 72 mg/m ³	TWA: 72 mg/m ³	b*
					STEL: 60 ppm	
					STEL: 216 mg/m ³	

Chemical name	France	Italy	Portugal	Finland	Denmark	Czech Republic
Cyclohexane 110-82-7	TWA: 200 ppm TWA: 700 mg/m³ STEL: 375 ppm STEL: 1300 mg/m³	TWA: 100 ppm TWA: 350 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³	TWA: 100 ppm TWA: 350 mg/m ³ STEL: 250 ppm STEL: 875 mg/m ³	TWA: 50 ppm TWA: 172 mg/m ³	TWA: 700 mg/m ³ Ceiling: 2000 mg/m ³
Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m³ STEL: 1500 mg/m³	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 20 ppm TWA: 72 mg/m³ Cutânea*	TWA: 20 ppm TWA: 72 mg/m³ iho*	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 70 mg/m ³ Ceiling: 200 mg/m ³ D*

Chemical name	Austria	Switzerland	Poland	Norway	Ireland	Russia
Cyclohexane	TWA: 200 ppm	TWA: 200 ppm	STEL: 1000	TWA: 150 ppm	TWA: 200 ppm	MAC: 80 mg/m ³
110-82-7	TWA: 700 mg/m ³	TWA: 700 mg/m ³	mg/m³	TWA: 525 mg/m ³	TWA: 700 mg/m ³	
	STEL 800 ppm	STEL: 800 ppm	TWA: 300 mg/m ³	STEL: 187.5 ppm	STEL: 600 ppm	
	STEL 2800 mg/m ³	STEL: 2800	skóra*	STEL: 656.25	STEL: 2100	
		mg/m³		mg/m³	mg/m³	
Hexane	TWA: 20 ppm	TWA: 50 ppm	TWA: 72 mg/m ³	TWA: 20 ppm	TWA: 20 ppm	TWA: 300 mg/m ³
110-54-3	TWA: 72 mg/m ³	TWA: 180 mg/m ³	skóra*	TWA: 72 mg/m ³	TWA: 72 mg/m ³	MAC: 900 mg/m ³
	STEL 80 ppm	STEL: 400 ppm		STEL: 30 ppm	STEL: 60 ppm	
	STEL 288 mg/m ³	STEL: 1440		STEL: 108 mg/m ³	STEL: 216 mg/m ³	
		mg/m³			Sk*	
		H*				

Biological occupational exposure limits:

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Chemical name	European Union	Germany	Netherlands	Spain	United Kingdom	Hungary
Cyclohexane		150 mg/g				
110-82-7		Creatinine (urine -				
		total				
		1,2-Cyclohexanedi				
		ol (after				
		hydrolysis) end of				
		shift)				
		150 mg/g				
		Creatinine (urine -				
		total				
		1,2-Cyclohexanedi				
		ol (after				
		hydrolysis) for				
		long-term				
		exposures: at the				
		end of the shift				
		after several				
		shifts)				
		150 mg/g				
		Creatinine - BAT				
		(for long-term				
		exposures: at the				
		end of the shift				
		after several				
		shifts) urine				
Hexane		5 mg/L (urine -		0.2 mg/L - urine		2 mg/L (urine -
110-54-3		2,5-Hexandione		(2,5-Hexanedione)		2,5-Hexanedione
		plus		- end of workweek		(after hydrolysis)
		4,5-Dihydroxy-2-h				end of shift)
		exanone (after				18 µmol/L (urine
		hydrolysis) end of				2,5-Hexanedione
		shift)				(after hydrolysis)
		5 mg/L - BAT (end				end of shift)
		of exposure or end				
		of shift) urine				
		5 mg/L - BAT (for				
		long-term				
		exposures: at the				
		end of the shift				
		after several				
	1	shifts) urine				

Chemical name	France	Italy	Portugal	Finland	Denmark	Czech Republic
Hexane	5 mg/g creatinine -					
110-54-3	urine					
	(2,5-Hexanedione)					
	- end of shift					

Chemical name	Austria	Switzerland	Poland	Norway	Ireland	Russia
Cyclohexane 110-82-7		150 mg/g creatinine - urine (total 1,2-Cyclohexanedi ol) - end of shift, and after several shifts (for long-term exposures)				
Hexane 110-54-3		5 mg/L - urine (2,5-Hexanedione plus			0.4 mg/L (urine - 2,5-Hexanedione end of shift at end	

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Chemical name	Austria	Switzerland	Poland	Norway	Ireland	Russia
		4,5-Dihydroxy-2-h			of workweek)	
		exanone) - end of				
		shift				

Derived No Effect Level (DNEL):

component information:

Worker - inhalative:

hydrocarbons, C6 - 7, 2035 mg/m³	Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
n-alkanes, i-alkanes, cyclics.	ydrocarbons, C6 - 7,	2035 mg/m ³			
1. 333, . 33, . 33,	-alkanes, i-alkanes, cyclics,				
< 5% n-Hexane	5% n-Hexane				

Chemical name	short term, local	short term, systemic	long term, local	long term, systemic
Cyclohexane	1400 mg/m ³	1400 mg/m ³	700 mg/m ³	700 mg/m ³
Hexane				75 mg/m ³

Worker - dermal:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
hydrocarbons, C6 - 7, n-alkanes, i-alkanes, cyclics, < 5% n-Hexane	773 mg/kg bw/day			

Chemical name	short term, local	short term, systemic	long term, local	long term, systemic
Cyclohexane				2016 mg/kg bw/day
Hexane				11 mg/kg bw/day

Consumer - inhalative:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
hydrocarbons, C6 - 7, n-alkanes, i-alkanes, cyclics, < 5% n-Hexane	608 mg/m³			

Chemical name	short term, local	short term, systemic	long term, local	long term, systemic
Cyclohexane	412 mg/m ³	412 mg/m ³	206 mg/m ³	206 mg/m ³
Hexane				16 mg/m ³

Consumer - dermal:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
hydrocarbons, C6 - 7, n-alkanes, i-alkanes, cyclics, < 5% n-Hexane	699 mg/kg bw/day			
Chemical name	short term, local	short term, systemic	long term, local	long term, systemic

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Chemical name	short term, local	short term, systemic	long term, local	long term, systemic
Cyclohexane				1168 mg/kg bw/day
Hexane				5.32 mg/kg bw/day

consumer - oral:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
hydrocarbons, C6 - 7,	699 mg/kg bw/day			
n-alkanes, i-alkanes, cyclics,				
< 5% n-Hexane				

Chemical name	short term, local	short term, systemic	long term, local	long term, systemic
Cyclohexane				59.4 mg/kg bw/day
Hexane				4 mg/kg bw/day

Predicted No Effect Concentration (PNEC):

component information:

Chemical name	Cyclohexane
Freshwater	0.207 mg/L
Marine water	0.207 mg/L
Intermittent release	0.207 mg/L
Impact on Sewage Treatment	3.24 mg/L
Freshwater sediment	16.68 mg/kg dry weight
Marine sediment	16.68 mg/kg dry weight
Soil	3.38 mg/kg dry weight

8.2. Exposure controls

Engineering controls: Showers, eyewash stations, and ventilation systems.

Personal protective equipment:



Eye/face protection: Tight sealing safety goggles.

Hand protection: Wear suitable gloves. Impervious gloves.

PPE - Glove material	Glove thickness	Break through time
NBR (Nitrile rubber)	0.5 mm	>=480 min.

Skin and body protection: Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Antistatic boots.

Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

Recommended Filter Type: Filtering device (full mask or mouthpiec AP-2

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Environmental exposure controls: No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

AppearanceLiquidColorcolorlessOdorParaffin oil

				Conditions	Method	Remarks
Melting point / melting range						Not established
Boiling point / boiling range		80 - 110	°C			
Flammability						Not established
Decomposition temperature						not relevant
Flash point	~	-20	°C			
Autoignition temperature		250	°C			
Lower explosive limit		8.0	Vol%			
Upper explosion limit		6.5	Vol%			
Vapor pressure	>	1100	hPa	50 °C		
Density	~	0.714	g/cm³	15 °C		
Water solubility						Immiscible
рН						Not applicable
pH (as aqueous solution)						Not established
Partition coefficient						Not established
Kinematic viscosity	<	20.5	mm²/s	40 °C		
Odor threshold						Not established
Relative density						Not established
Evaporation rate						Not established
Dolotivo vonor donoity	no 0	lata availabla				

Relative vapor density no data available Particle Size no data available Particle Size Distribution no data available

9.2. Other information

Bulk density:no data availableSoftening pointNo information availableMolecular weightNo information available

9.2.1. Information with regard to physical hazard classes:

Explosive properties No data available Oxidizing properties No data available

9.2.2. Other safety characteristics: No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity: No information available.

10.2. Chemical stability

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Stability: Stable under normal conditions.

Explosion data:

Sensitivity to mechanical impact: None. Sensitivity to static discharge: Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions: None under normal processing.

10.4. Conditions to avoid

Conditions to avoid: Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials: Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products: None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure:

Product Information:

Inhalation: Specific test data for the substance or mixture is not available. Aspiration into lungs can

produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. May cause drowsiness or dizziness.

Eye contact: Specific test data for the substance or mixture is not available. May cause irritation.

Skin contact: Repeated exposure may cause skin dryness or cracking. Specific test data for the

substance or mixture is not available. Causes skin irritation. (based on components).

Ingestion: Specific test data for the substance or mixture is not available. Potential for aspiration if

swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may

cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms: Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause

redness and tearing of the eyes. Inhalation of high vapor concentrations may cause

symptoms like headache, dizziness, tiredness, nausea and vomiting.

Numerical measures of toxicity:

Acute toxicity: No information available

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Chemical name	Parameter	Species	effektive Dosis	Method
hydrocarbons, C6 - 7, n-alkanes, i-alkanes, cyclics, < 5% n-Hexane -	Oral LD50	Rat	> 5000 mg/kg	

Chemical name	Parameter	Species	effektive Dosis	Method
Cyclohexane 110-82-7	Oral LD50	Rat	> 5000 mg/kg	OECD 401
Hexane 110-54-3	Oral LD50	Rat	> 5000 mg/kg	OECD 401

Chemical name	Parameters	Species	Effective dose	Method
hydrocarbons, C6 - 7, n-alkanes, i-alkanes, cyclics, < 5% n-Hexane -	Dermal LD50	Rat	> 2000 mg/kg	

Chemical name	Parameters	Species	Effective dose	Method
Cyclohexane 110-82-7	Dermal LD50	Rabbit	> 2000 mg/kg	OECD 402
Hexane 110-54-3	Dermal LD50	Rabbit	> 2000 mg/kg	OECD 402

Chemical name	Parameters	Species	Effective dose	Exposure time	Method
hydrocarbons, C6 - 7, n-alkanes, i-alkanes, cyclics, < 5% n-Hexane	Inhalation LC50	Rat	> 25.2 mg/L	4 h	
-			1		

Chemical name	Parameters	Species	Effective dose	Exposure time	Method
Cyclohexane 110-82-7	Inhalation LC50	Rat	19.1 mg/L	4 h	OECD 403
Hexane 110-54-3	Inhalation LC50	Rat	169.2 mg/L	4 h	

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Skin corrosion/irritation: Irritating to skin.

Serious eye damage/eye irritation:

Respiratory or skin sensitization:

No information available.

Germ cell mutagenicity:

No information available.

Carcinogenicity:

No information available.

Reproductive toxicity: Based on available data, the classification criteria are not met.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
Hexane	Repr. 2

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STOT - single exposure: May cause drowsiness or dizziness.

STOT - repeated exposure: No information available.

Aspiration hazard: May be fatal if swallowed and enters airways.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No information available.

11.2.2. Other information

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity: Toxic to aquatic life with long lasting effects.

fish toxicity:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
hydrocarbons, C6 - 7, n-alkanes, i-alkanes, cyclics, < 5% n-Hexane -	LL50	Oncorhynchus mykiss	15.8 mg/L	96 h	OECD 203

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Cyclohexane 110-82-7	LC50	Pimephales promelas Lepomis macrochirus Poecilia reticulata	3.96 - 5.18 mg/L 23.03 - 42.07 mg/L 48.87 - 68.76 mg/L	96 h	OECD 203
Hexane 110-54-3	LC50	Pimephales promelas	2.1 - 2.98 mg/L	96 h	

toxicity to crustacea:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
hydrocarbons, C6 - 7, n-alkanes, i-alkanes, cyclics, < 5% n-Hexane -	EL50	Daphnia magna	3 mg/L	48 h	OECD 202

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Cyclohexane 110-82-7	EC50	Daphnia magna	0.9 mg/L	48 h	OECD 202
Hexane 110-54-3	EC50	Daphnia magna	21.85 mg/L	48 h	

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Algae Toxicity:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
hydrocarbons, C6 - 7, n-alkanes, i-alkanes, cyclics, < 5% n-Hexane -	EL50	Pseudokirchneriella subcapitata	10 - 30 mg/L	96 h	OECD 201

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Cyclohexane 110-82-7	EC50	Desmodesmus subspicatus	500 mg/L	72 h	
Hexane 110-54-3	EL50	Pseudokirchneriella subcapitata	9.285 mg/L	72 h	

Bacteria toxicity:

Chemical name	Parameters	Species	Effective dose	Exposure time	Method
Cyclohexane	IC50		29	15	
110-82-7					

12.2. Persistence and degradability

Persistence and degradability:

Chemical name	degradation rate	test duration	Rapidly biodegradable	Remarks	Method
hydrocarbons, C6 - 7, n-alkanes, i-alkanes, cyclics, < 5% n-Hexane -	98 %	28 d	Yes		OECD 301 F

Chemical name	degradation rate	test duration	Rapidly biodegradable	Remarks	Method
Cyclohexane 110-82-7	77 %	28 d	Yes	Aerobic biological treatment	OECD 301 F
Hexane 110-54-3	98 %	28 d	Yes		OECD 301 F

12.3. Bioaccumulative potential

Bioaccumulation:

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
hydrocarbons, C6 - 7, n-alkanes, i-alkanes,	> 4	
cyclics, < 5% n-Hexane		
-		

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Cyclohexane 110-82-7	3.44	167
Hexane	4	501.2
110-54-3		

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12.4. Mobility in soil

Mobility in soil:

No information available.

No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment:

Chemical name	PBT and vPvB assessment
Cyclohexane 110-82-7	The substance is not PBT / vPvB
Hexane 110-54-3	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties.

No information available.

12.7. Other adverse effects.

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused

products:

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging:

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or

weld containers.

Waste codes / waste designations according to EWC / AVV: 07 01 04* (other organic solvents, washing liquids and mother liquors)

SECTION 14: Transport information

14.1. UN number

ADR: UN3295 RID: UN3295 IMDG: UN3295 IATA: UN3295

14.2 UN proper shipping name

ADR: HYDROCARBONS, LIQUID, N.O.S.

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, II, Environmentally Hazardous

RID: HYDROCARBONS, LIQUID, N.O.S.

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, II, Environmentally Hazardous

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IMDG: HYDROCARBONS, LIQUID, N.O.S.

UN3295, HYDROCARBONS, LIQUID, N.O.S. (HYDROCARBONS, C6 - 7, N-ALKANES, I-ALKANES, CYCLICS, < 5%

N-HEXANE), 3, II, (-20°C C.C.), MARINE POLLUTANT

IATA: HYDROCARBONS, LIQUID, N.O.S.

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, II

14.3. Transport hazard class(es)

ADR:	3
Hazard label(s) Classification code	3 F1
Hazard identification number (Kemler No.) Tunnel restriction code Limited quantity (LQ) Excepted quantity	33 (D/E) 1 L E2
RID: Labels Classification code	3 3 F1
IMDG: Hazard label(s) Limited quantity (LQ) Excepted quantity EmS-No	3 3 1 L E2 F-E, S-D
IATA: Hazard label(s) Excepted quantity	3 3 E2

14.4. Packing group

ADR: II RID: II IMDG: II IATA: II

14.5. Environmental hazards

ADR: Yes RID: Yes

IMDG: Marine pollutant

IATA: Yes

14.6. Special precautions for user

ADR:

Special Provisions: 640C

RID:

Special Provisions: 640C

IMDG: Not regulated

Special Provisions: None

IATA:

Special Provisions: A325, A3 ERG Code 3H

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14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

No information available

SECTION 15: Regulatory information

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

European Union:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:

• This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Substance subject to authorization per REACH Annex XIV	Restricted substance per REACH Annex XVII
hydrocarbons, C6 - 7, n-alkanes, i-alkanes, cyclics, < 5% n-Hexane -		3.

Chemical name	Substance subject to authorization	Restricted substance per REACH
	per REACH Annex XIV	Annex XVII
Cyclohexane		40.
110-82-7		57.
Hexane		40.
110-54-3		

Persistent Organic Pollutants:

Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU):

P5a - FLAMMABLE LIQUIDS P5b - FLAMMABLE LIQUIDS P5c - FLAMMABLE LIQUIDS

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Ozone-depleting substances (ODS) regulation (EC) 1005/2009: Not applicable

volatile organic compounds (VOC) content:

acc. reg. 2010/75/EG: 100 % acc. reg. 2004/42/EG (Decopaint): 714 g/L

National regulations:

Germany:

Water hazard class (WGK): obviously hazardous to water (WGK 2) - Classification according to AwSV

Chemical name	WGK Classification (AwSV)	ID number
hydrocarbons, C6 - 7, n-alkanes, i-alkanes,	2	-
cyclics, < 5% n-Hexane		

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-		
Chemical name	WGK Classification (AwSV)	ID number
Cyclohexane	2	63
110-82-7		
Hexane	2	124
110-54-3		

TA Luft (German Air Pollution Control Regulation):

org. substances (Ziffer 5.2.5):

95 - 100%

Storage class (TRGS 510): 3 • LGK3 - Flammable liquids

France:

Occupational Illnesses (R-463-3, France):

Chemical name	French RG number
hydrocarbons, C6 - 7, n-alkanes, i-alkanes, cyclics, < 5% n-Hexane	RG 84
-	

Chemical name	French RG number	
Cyclohexane 110-82-7	RG 84	
Hexane	RG 59,RG 84	
110-54-3		

RG 59 - Occupational poisoning by hexane

RG 84 - Occupational conditions caused by liquid organic solvents

Netherlands:

Chemical name	Hexane
Netherlands - List of Reproductive Toxins	Fertility Category 2
(p)ZZS list: potential SVHC	X

Austria:

Flammable Liquids Regulations, VbF: Flammable liquids: Al

Switzerland:

VOC content:: acc. VOCV CH 814.018, att. 1: 100 %

International Inventories:

TSCA Does not comply DSL/NDSL Does not comply EINECS/ELINCS Complies

ENCS Does not comply

IECSCCompliesKECLCompliesPICCSCompliesAICSComplies

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Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report: No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet:

Full text of H-Statements referred to under section 3:

H225 - Highly flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

H411 - Toxic to aquatic life with long lasting effects

I egend

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

ADR: European agreement concerning the international carriage of dangerous goods by road

(Accord européen relatif transport des merchandises dangereuses par route)

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany)

BCF: Bio-Concentration Factor

BOD(5): Biochemical oxygen demand (within 5 days)

CAS: Chemical Abstract Service

CLP: Classification, Labelling and Packaging

CMR: Carcinogenic, Mutagenic, toxic for Reproduction DIN: German Standards Institute / German industrial norm

DNEL: Derived No Effect Level DOC: Dissolved organic carbon

EAK/ AVV: European waste catalogue/ waste directory-regulation

EC50: Effective Concentration 50% ECHA: European Chemical Agency

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

IATA: International Air Transport Association

IC50: Inhibition Concentration 50%

IMDG: International Maritime Dangerous Goods Code LC50: Lethal Concentration 50% - LD50: Lethal dose 50%

MAK: Treshold limit values Germany

NLP: No Longer Polymers

NOAEC: No Observed Adverse Effect Concentration

NOAEL: No Observed Adverse Effect Level

OECD: Organization for Economic Cooperation and Development

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PBT: persistent, bioaccumulative, toxic

PC: Product category

PNEC: Predicted No Effect Concentration

REACh: Registration, Evaluation and Authorization of Chemicals

RID:Regulations concerning the international carriage of dangerous goods by rail

(Règlement International concernant le transport de marchandises dangereuses par chemin de fer)

STEL: Short-term Exposure Limit STP: Sewage treatment plant

SVHC: Substance of Very High Concern

TLV: Threshold Limit Value TWA: Time Weighted Average

UN: United Nations

VOC: Volatile Organic Compounds

vPvB: very persistent, very bioaccumulative

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ceiling: Maximum limit value

* Skin designation

Classification procedure		
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used	
Acute oral toxicity	Calculation method	
Acute dermal toxicity	Calculation method	
Acute inhalation toxicity - gas	Calculation method	
Acute inhalation toxicity - vapor	Calculation method	
Acute inhalation toxicity - dust/mist	Calculation method	
Skin corrosion/irritation	Calculation method	
Serious eye damage/eye irritation	Calculation method	
Respiratory sensitization	Calculation method	
Skin sensitization	Calculation method	
Mutagenicity	Calculation method	
Carcinogenicity	Calculation method	
Reproductive toxicity	Calculation method	
STOT - single exposure	Calculation method	
STOT - repeated exposure	Calculation method	
Acute aquatic toxicity	Calculation method	
Chronic aquatic toxicity	Calculation method	
Aspiration hazard	On basis of test data	
Ozone	Calculation method	

Key literature references and sources for data used to compile the SDS:

European Chemicals Agency (ECHA)

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

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National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

Revision date: 09-Feb-2022

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006:

Disclaimer:

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End of Safety Data Sheet