

# SAFETY DATA SHEET



This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date: 20-Dec-2024

Print Date: 20-Dec-2024

Revision Number: 1

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

### 1.1. Product identifier

**Product Name:** TECWERK Waschbenzin 1L Dose  
**Article number:** (Art.Nr. 2000355945)  
**CAS No.:** -  
**REACH registration number:** 01-2119475514-35  
**UFI:** J53P-92NR-500P-F61D

### 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:** NORDWEST Handel AG  
Robert-Schuman-Str. 17  
D - 44263 Dortmund  
Telefon: +49 231/ 222 3001  
+49 231/ 222 3099  
www.nordwest.com  
**E-mail address:** sdb@nordwest.com

### 1.4. Emergency telephone number

**Emergency Telephone:** poisson center, Mainz, Tel. +49 6131/ 19 240 (24 h)

Emergency Telephone - §45 - (EC)1272/2008	
Austria	+43 1 406 43 43 (Giftinformationszentrale)
Belgium	Centre antipoisons / Antigif CentrumTel. +32 (0)70 245 245
Bulgaria	
France	Centre AntiPoison et de ToxicoVigilanceTel. + 33 (0) 1 45 42 59 59
Italy	
Luxembourg	Poison Centre / Giftinformationszentrum(+352) 8002 5500
Netherlands	Nationaal Vergiftingen Informatie Centrum (NVIC)Tel. +31 30 274 8888
Poland	Pomorskie Centrum ToksykologiiTel. +48 (0)586820404 / 112
Portugal	
Slovakia	
Spain	
Switzerland	Tox Info SuisseTel. 145, 24h oder +41 44 251 51 51
Hungary	

## 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)

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Specific target organ toxicity (single exposure)	Category 3 - (H336)
Chronic aquatic toxicity	Category 2 - (H411)

## 2.2. Label elements



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 is exempt from the requirement for a child resistant fastening and tactile warning of danger, as it is an aspiration hazard, placed on the market in the form of an aerosol 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.

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

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Chemical name	CAS No.	EC No (EU Index No)	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight-%
Hydrocarbons, C6 - 7, n-alkanes, i-alkanes, cyclics, < 5% n-Hexane	-	921-024-6	01-2119475514-35	Flam. Liq. 2 (H225) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) STOT SE 3 (H336) Aquatic Chronic 2 (H411)	90 - 100

#### 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 (ATE<sub>mix</sub>) for classifying a mixture based on its components

#### hazardous components above-mentioned substances/ substance mixtures:

Chemical name	CAS No.	EC No (EU Index No)	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight-%
Cyclohexane 110-82-7	110-82-7	203-806-2 (601-017-00- 1)	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 (601-037-00- 0)	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

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

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

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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 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.

#### Effects of Exposure

None.

## 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 (CO<sub>2</sub>). 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	Austria	Belgium	Bulgaria	Croatia
Cyclohexane 110-82-7	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup> STEL 800 ppm STEL 2800 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 350 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700.0 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup> Sk*
Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> STEL 80 ppm STEL 288 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72.0 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> Sk*
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Cyclohexane 110-82-7	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>	TWA: 700 mg/m <sup>3</sup> Ceiling: 2000 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 172 mg/m <sup>3</sup> STEL: 100 ppm STEL: 344 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 350 mg/m <sup>3</sup> STEL: 250 ppm STEL: 875 mg/m <sup>3</sup>
Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>	TWA: 70 mg/m <sup>3</sup> Sk* Ceiling: 200 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> STEL: 40 ppm STEL: 144 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> Sk*
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Hydrocarbons, C6 - 7, n-alkanes, i-alkanes, cyclics, < 5% n-Hexane -			RCP: C6-8 aliphates: STEL: 700 mg/m <sup>3</sup> - 2(II)		
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Cyclohexane 110-82-7	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup> STEL: 375 ppm STEL: 1300 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup> Peak: 800 ppm Peak: 2800 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>
Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 180 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 180 mg/m <sup>3</sup> Peak: 400 ppm Peak: 1440 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>	TWA: 72 mg/m <sup>3</sup> TWA: 20 ppm b*
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Cyclohexane 110-82-7	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup> STEL: 600 ppm STEL: 2100 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 350 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 344 mg/m <sup>3</sup>	TWA: 23 ppm TWA: 80 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>
Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> STEL: 60 ppm STEL: 216 mg/m <sup>3</sup> Sk*	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 176 mg/m <sup>3</sup> Sk*	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> STEL: 300 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland

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Cyclohexane 110-82-7	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup> STEL: 400 ppm STEL: 1400 mg/m <sup>3</sup>	TWA: 150 ppm TWA: 525 mg/m <sup>3</sup> STEL: 187.5 ppm STEL: 656.25 mg/m <sup>3</sup>	TWA: 300 mg/m <sup>3</sup> STEL: 1000 mg/m <sup>3</sup> Sk*
Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> STEL: 40 ppm STEL: 144 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> STEL: 30 ppm STEL: 108 mg/m <sup>3</sup>	TWA: 72 mg/m <sup>3</sup> Sk*
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Cyclohexane 110-82-7	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup> STEL: 2800 mg/m <sup>3</sup> STEL: 800 ppm	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>
Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> Sk*	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> STEL: 1000 mg/m <sup>3</sup>	TWA: 20 mg/m <sup>3</sup> TWA: 72 mg/m <sup>3</sup> Ceiling: 140 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> STEL: 576 mg/m <sup>3</sup> STEL: 160 ppm	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>
Chemical name	Sweden	Switzerland	United Kingdom	Russia	Türkiye
Cyclohexane 110-82-7	NGV: 200 ppm NGV: 700 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup> STEL: 800 ppm STEL: 2800 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 350 mg/m <sup>3</sup> STEL: 300 ppm STEL: 1050 mg/m <sup>3</sup>	MAC: 80 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 700 mg/m <sup>3</sup>
Hexane 110-54-3	NGV: 20 ppm NGV: 72 mg/m <sup>3</sup> Bindande KGV: 50 ppm Bindande KGV: 180 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 180 mg/m <sup>3</sup> STEL: 400 ppm STEL: 1440 mg/m <sup>3</sup> Sk*	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup> STEL: 60 ppm STEL: 216 mg/m <sup>3</sup>	TWA: 300 mg/m <sup>3</sup> MAC: 900 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 72 mg/m <sup>3</sup>

Biological occupational exposure limits:

Chemical name	European Union	Germany DFG	Netherlands	Spain	United Kingdom	Hungary
Cyclohexane 110-82-7		150 mg/g Creatinine (urine - total 1,2-Cyclohexanediol (after hydrolysis) end of shift) 150 mg/g Creatinine (urine - total 1,2-Cyclohexanediol (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 110-54-3		5 mg/L (urine - 2,5-Hexandione plus 4,5-Dihydroxy-2-hexanone (after hydrolysis) end of shift) 5 mg/L - BAT (end of exposure or end		0.2 mg/L - urine (2,5-Hexanedione) - end of workweek		2 mg/L (urine - 2,5-Hexanedione (after hydrolysis) end of shift) 18 µmol/L (urine - 2,5-Hexanedione (after hydrolysis) end of shift)

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Chemical name	European Union	Germany DFG	Netherlands	Spain	United Kingdom	Hungary
		of shift) urine 5 mg/L - BAT (for long-term exposures: at the end of the shift after several shifts) urine				

Chemical name	France	Italy MDLPS	Portugal	Finland	Denmark	Czech Republic
Hexane 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) 146 µmol/mmol 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 4,5-Dihydroxy-2-h exanone) - end of shift			0.4 mg/L (urine - 2,5-Hexanedione end of shift at end of workweek)	

Derived No Effect Level (DNEL):

component information:

Worker - 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	2 035 mg/m <sup>3</sup>			

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			

Consumer - inhalative:



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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/m <sup>3</sup>			

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			

Consumer - oral:

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			

Predicted No Effect Concentration (PNEC): No information available

component information:

Chemical name	Cyclohexane CAS: 110-82-7
Freshwater	0.207 mg/L
Marine water	0.207 mg/L
Freshwater (intermittent release)	0.207 mg/L
Sewage treatment	3.24 mg/L
Freshwater sediment	16.68 mg/kg sediment dw
Marine sediment	16.68 mg/kg sediment dw
Soil	3.38 mg/kg soil dw

## 8.2. Exposure controls

Engineering controls:

Showers, eyewash stations, and ventilation systems.

Personal protective equipment:

The usual precautionary measures for the handling of chemicals have to be observed.



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.

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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) with filter: AP-2

Environmental exposure controls: No information available.

## SECTION 9: Physical and chemical properties

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

Appearance	Liquid					
Color	colorless					
Odor	Paraffin oil					
			Units	Conditions	Method	Remarks
Melting point / melting range						Not established
Boiling point / boiling range	80 - 110	°C				
Flammability						Flammable
Decomposition temperature						None known
Flash point	~ -20	°C				
Autoignition temperature	250	°C				
Lower explosive limit	0.8	Vol%				
Upper explosion limit	6.5	Vol%				
Vapor pressure	> 1100	hPa		50 °C		
Density	~ 0.714	g/cm <sup>3</sup>		15 °C		
Water solubility						Immiscible
pH						Not applicable
pH (as aqueous solution)						Not established
Partition coefficient						Not established
Kinematic viscosity	< 20.5	mm <sup>2</sup> /s		40 °C		
Odor threshold						Not established
Relative density						Not established
Evaporation rate						Not established
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 available

Softening point: No information available

Molecular weight: No information available

#### 9.2.1. Information with regard to physical hazard classes:

Explosive properties: No data available

Flammable

Oxidizing properties: No data available

#### 9.2.2. Other safety characteristics: No information available

## SECTION 10: Stability and reactivity

# SAFETY DATA SHEET



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

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## 10.1. Reactivity

Reactivity: No information available.

## 10.2. Chemical stability

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 hazard classes as defined in Regulation (EC) No 1272/2008

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.

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## Numerical measures of toxicity:

Acute toxicity:

Chemical name	Parameter	Species	Effective dose	Method
Hydrocarbons, C6 - 7, n-alkanes, i-alkanes, cyclics, < 5% n-Hexane -	Oral LD50	Rat		

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	Exposure time	Method
Hydrocarbons, C6 - 7, n-alkanes, i-alkanes, cyclics, < 5% n-Hexane -	Inhalation LC50	Rat	> 25.2 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:	No information available.
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

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

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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	

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	

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Bacteria toxicity:

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

## 12.2. Persistence and degradability

**Persistence and degradability** No information available.

Chemical name	degradation rate	test duration	Readily 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	Readily 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, cyclics, < 5% n-Hexane -	4.1	

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

## 12.4. Mobility in soil

Mobility in soil: No information available.

Mobility: No information available.

## 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment:

Chemical name	PBT and vPvB assessment
Hydrocarbons, C6 - 7, n-alkanes, i-alkanes, cyclics, < 5% n-Hexane	The substance is not PBT / vPvB

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-	
<i>Chemical name</i>	<i>PBT and vPvB assessment</i>
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 or ID 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  
IMDG: HYDROCARBONS, LIQUID, N.O.S.  
UN3295, HYDROCARBONS, LIQUID, N.O.S., 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) 3  
Classification code F1

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ADR Hazard Id (Kemmler Number)	33
Tunnel restriction code	(D/E)
Limited quantity (LQ)	1 L
Excepted quantity	E2

RID:	3
Labels	3
Classification code	F1

IMDG:	3
Hazard label(s)	3
Limited quantity (LQ)	1 L
Excepted quantity	E2
EmS-No.	F-E, S-D

IATA:	3
Hazard label(s)	3
Excepted quantity	E2

## 14.4. Packing group

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

## 14.5. Environmental hazards

ADR:	Yes
RID:	Yes
IMDG:	Yes
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:	A324, A3
ERG Code	3H

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

European Union:



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Regulation (EC) No. 1907/2006 (Annex II - (EC) No. 2020/878) and Regulation (EC) No. 1272/2008

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

Take note of Directive 94/33/EC on the protection of young people at work:

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken

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. 40.

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

Persistent Organic Pollutants:  
(EC) 2019/1021

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/EC (20°C):

100 %

acc. reg. 2004/42/EC (Decopaint):

714 g/L

## National regulations:

Chemical name	Denmark - MAL
Cyclohexane 110-82-7	13 m3/10 g substance MAL factor >0 % by weight [1]
Hexane 110-54-3	78 m3/10 g substance MAL factor >0 % by weight [1]

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, cyclics, < 5% n-Hexane -	2	-

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

TA Luft (German Air Pollution Control Regulation):

org. substances (Ziffer 5.2.5):

95 - 100%

Storage class (TRGS 510): LGK 3 - 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 110-54-3	RG 59, RG 84

RG 59 - Occupational poisoning by hexane

RG 84 - Conditions caused by occupational use of liquid organic solvents

Netherlands:

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

Water contaminating class (Netherlands):

A2

Austria:

Flammable Liquids Regulations, VbF

Flammable liquids Cat. 2

Poland:

Ordinance of the Minister of Family, Labor and Social Policy dated June 12, 2018 on the highest permissible concentrations and intensities of harmful factors for health in the work environment (Dz. U. 2018 item 1286, as amended)

Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21; as amended)

Act on chemical substances and their mixtures of February 25, 2011. (Journal of Laws No. 63, item 322; as amended)

Regulation of the Minister of Labor and Social Policy of September 26, 1997 on general regulations of safety and hygiene at work (Dz. U. of 2003, No. 169, item 1650; as amended).

Switzerland:

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

100 %

Hungary:

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Decree No 44/2000 (XII.27.) of the Ministry of Economic Affairs and Labour of the Republic of Hungary on certain procedures and activities Joint Decree No. 5/2020 ITM on Chemical Safety at Work 178/2017 (VII. 5.)  
Government Decree on the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) „A“ and „B“ of the European Agreement on Road Transport

## International Inventories:

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Complies
KECL	Complies
PICCS	Complies
AIIC	Complies
NZIoC	Complies

## Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**NZIoC** - New Zealand Inventory of Chemicals  
**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 Chemicals Inventory  
**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

## Legend:

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 marchandises 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

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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: Threshold 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  
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

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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)

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)

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

U.S. 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: 20-Dec-2024

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH):

## Disclaimer:

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**End of Safety Data Sheet**