

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: 07-May-2026

Print Date: 07-May-2026

Revision Number: 2

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

1.1. Product identifier

Product Name: **TECWERK Waschbenzin 1L Dose, 5L Kanister**
Article number: Art.Nr. 2000355945, 2000355946
CAS No.: -
Related CAS no 64742-49-0
EC No 921-024-6
(EU Index 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

Recommended use:

Product categories [PC]: PC9 - Coatings and paints, fillers, putties, thinners
PC 0.56 - Solvent

Uses advised against: No information available

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	
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

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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)
STOT Single Category 3 Statement	Category 3 Narcotic effects
Acute aquatic toxicity	Not classified for acute
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
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment
P280 - Wear protective gloves and eye/face protection
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P331 - Do NOT induce vomiting
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

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.

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

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3.1 Substances

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 (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Hydrocarbons, C6 - 7, n-alkanes, i-alkanes, cyclics, < 5% n-Hexane -	No data available	2500	No data available	No data available	No data available

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 1 (H372) Aquatic Chronic 2 (H411)	1 - < 3

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No.	SVHC candidates
Hexane	110-54-3	X

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

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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. 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 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.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media:	Dry chemical. Carbon dioxide (CO ₂). 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.
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5.3. Advice for firefighters

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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 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

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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

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 ³	TWA: 200 ppm TWA: 700 mg/m ³ STEL 800 ppm STEL 2800 mg/m ³	TWA: 100 ppm TWA: 350 mg/m ³	TWA: 200 ppm TWA: 700.0 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³ Sk*
Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³ STEL 80 ppm STEL 288 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 20 ppm TWA: 72.0 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³ Sk*
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Cyclohexane 110-82-7	TWA: 200 ppm TWA: 700 mg/m ³	TWA: 700 mg/m ³ Ceiling: 2000 mg/m ³	TWA: 50 ppm TWA: 172 mg/m ³ STEL: 100 ppm STEL: 344 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
Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 70 mg/m ³ Sk* Ceiling: 200 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³ STEL: 40 ppm STEL: 144 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³ 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 ³ - 2(II)		
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Cyclohexane 110-82-7	TWA: 200 ppm TWA: 700 mg/m ³ STEL: 375 ppm STEL: 1300 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³ Peak: 800 ppm Peak: 2800 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³
Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 50 ppm TWA: 180 mg/m ³	TWA: 50 ppm TWA: 180 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 72 mg/m ³ TWA: 20 ppm

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	STEL: 1500 mg/m ³		Peak: 400 ppm Peak: 1440 mg/m ³		b*
<i>Chemical name</i>	<i>Ireland</i>	<i>Italy MDLPS</i>	<i>Italy AIDII</i>	<i>Latvia</i>	<i>Lithuania</i>
Cyclohexane 110-82-7	TWA: 200 ppm TWA: 700 mg/m ³ STEL: 600 ppm STEL: 2100 mg/m ³	TWA: 100 ppm TWA: 350 mg/m ³	TWA: 100 ppm TWA: 344 mg/m ³	TWA: 23 ppm TWA: 80 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³
Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m ³ STEL: 60 ppm STEL: 216 mg/m ³ Sk*	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 50 ppm TWA: 176 mg/m ³ Sk*	TWA: 20 ppm TWA: 72 mg/m ³ STEL: 300 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³
<i>Chemical name</i>	<i>Luxembourg</i>	<i>Malta</i>	<i>Netherlands</i>	<i>Norway</i>	<i>Poland</i>
Cyclohexane 110-82-7	TWA: 200 ppm TWA: 700 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³ STEL: 400 ppm STEL: 1400 mg/m ³	TWA: 150 ppm TWA: 525 mg/m ³ STEL: 187.5 ppm STEL: 656.25 mg/m ³	TWA: 300 mg/m ³ STEL: 1000 mg/m ³ Sk*
Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³ STEL: 40 ppm STEL: 144 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³ STEL: 30 ppm STEL: 108 mg/m ³	TWA: 72 mg/m ³ Sk*
<i>Chemical name</i>	<i>Portugal</i>	<i>Romania</i>	<i>Slovakia</i>	<i>Slovenia</i>	<i>Spain</i>
Cyclohexane 110-82-7	TWA: 200 ppm TWA: 700 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³ STEL: 2800 mg/m ³ STEL: 800 ppm	TWA: 200 ppm TWA: 700 mg/m ³
Hexane 110-54-3	TWA: 20 ppm TWA: 72 mg/m ³ Sk*	TWA: 20 ppm TWA: 72 mg/m ³ STEL: 1000 mg/m ³	TWA: 20 mg/m ³ TWA: 72 mg/m ³ Ceiling: 140 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³ STEL: 576 mg/m ³ STEL: 160 ppm	TWA: 20 ppm TWA: 72 mg/m ³
<i>Chemical name</i>	<i>Sweden</i>	<i>Switzerland</i>	<i>United Kingdom</i>	<i>Russia</i>	<i>Türkiye</i>
Cyclohexane 110-82-7	NGV: 200 ppm NGV: 700 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³ STEL: 800 ppm STEL: 2800 mg/m ³	TWA: 100 ppm TWA: 350 mg/m ³ STEL: 300 ppm STEL: 1050 mg/m ³	MAC: 80 mg/m ³	TWA: 200 ppm TWA: 700 mg/m ³
Hexane 110-54-3	NGV: 20 ppm NGV: 72 mg/m ³ Bindande KGV: 50 ppm Bindande KGV: 180 mg/m ³	TWA: 50 ppm TWA: 180 mg/m ³ STEL: 400 ppm STEL: 1440 mg/m ³ Sk*	TWA: 20 ppm TWA: 72 mg/m ³ STEL: 60 ppm STEL: 216 mg/m ³	TWA: 300 mg/m ³ MAC: 900 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³

Biological occupational exposure limits: This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

<i>Chemical name</i>	<i>European Union</i>	<i>Germany DFG</i>	<i>Netherlands</i>	<i>Spain</i>	<i>United Kingdom</i>	<i>Hungary</i>
Cyclohexane 110-82-7		150 mg/g Creatinine (urine - total 1,2-Cyclohexanediol (after hydrolysis) at the end of the shift, in case of long-term exposure after several previous 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 -

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Chemical name	European Union	Germany DFG	Netherlands	Spain	United Kingdom	Hungary
110-54-3		2,5-Hexandione plus 4,5-Dihydroxy-2-hexanone (after hydrolysis) end of exposure or shift 5 mg/L - BAT (end of exposure or end of shift) urine 5 mg/L - BAT (for long-term exposures: at the end of the shift after several shifts) urine		(2,5-Hexanedione) - end of workweek		2,5-Hexanedione (after hydrolysis) end of shift 18 µmol/L (urine - 2,5-Hexanedione (after hydrolysis) end of shift)

Chemical name	France	Italy MDLPS	Portugal	Finland	Denmark	Czech Republic
Hexane 110-54-3	- urine () - end of shift					

Chemical name	Austria	Switzerland	Poland	Norway	Ireland	Russia
Cyclohexane 110-82-7		150 mg/g creatinine - urine (total 1,2-Cyclohexanedione) - end of shift, and after several shifts (for long-term exposures) 146 µmol/mmol creatinine - urine (total 1,2-Cyclohexanedione) - 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-hexanone) - 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 ³			

Worker - dermal:

Chemical name	long-term, systemic	short-term, systemic	long-term, local	short-term, local
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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	773 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/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			

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):

component information:

Chemical name	Cyclohexane CAS: 110-82-7
Freshwater	44.7 µg/L
Marine water	4.47 µg/L
Freshwater (intermittent release)	9 µg/L
Marine water (intermittent release)	0.9 µg/L
Sewage treatment	3.24 mg/L
Freshwater sediment	3.6 mg/kg sediment dw
Marine sediment	0.36 mg/kg sediment dw
Soil	0.694 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.

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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) 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	~ 0.726	g/cm³		15 °C		
Water solubility						Immiscible
pH						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
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

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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

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

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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:

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:	Causes skin irritation.
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.

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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	

Algae Toxicity:

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

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Chemical name	Parameter	Species	Effective dose	Exposure time	Method
cyclics, < 5% n-Hexane -					

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	Pseudokirchneri ella subcapitata	9.285 mg/L	72 h	

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

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.

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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
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 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, (D/E), 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. (HYDROCARBONS, C6 - 7, N-ALKANES, I-ALKANES, CYCLICS, < 5%

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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)	3
Classification code	F1
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:	
Special Provisions:	None
IATA:	
Special Provisions:	A324, A3
ERG Code	3H

14.7 Maritime transport in bulk according to IMO instruments

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Not applicable

SECTION 15: Regulatory information

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

European Union:

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		40.
110-82-7		57.
Hexane		40.
110-54-3		

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

648/2004/ EU (DetVo):

≥ 30% aliphatic hydrocarbons

National regulations:

Chemical name	Denmark - MAL
Cyclohexane	13 m3/10 g substance MAL factor

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

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

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	RG 84
110-82-7	
Hexane	RG 59, RG 84
110-54-3	

RG 59 - Occupational poisoning by hexane

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

Netherlands:

Chemical name	Hydrocarbons, C6 - 7, n-alkanes, i-alkanes, cyclics, < 5% n-Hexane
ZZS list: SVHC	x (64742-49-0 - classification as a carcinogen or mutagen according to CLP does not apply if it can be shown that the substance contains less than 0.1% w/w Benzene. If the substance is not classified as a carcinogen, the minimum precautions (P102-)P260-P262-P301 + P310-P331 apply. However, the substance can still be a SVHC. For example, other components in it can be harmful to reproduction or be PBT (Persistent, Bioaccumulative and Toxic). To conclude that the substance is not a SVHC, it must be clear that it does not

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

Water contaminating class (Netherlands): Z2

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:

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/NDL	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/NDL - 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

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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

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

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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
Chronic aquatic toxicity	Calculation method
Acute 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)

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

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

Disclaimer:

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End of Safety Data Sheet