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: 15-Nov-2022 **Revision Number:** 1
Print Date: 13-Jan-2023

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

1.1. Product identifier

Product Name: **Mega 901 - Terpentinersatz**
Article number: 061260540000

UFI: TRPV-J0DK-R00W-1CQ3

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: MEGA eG
Fangdieckstrasse 45
D - 22547 Hamburg
Telefon: +49 40/ 54004-0
Telefax: +49 40/ 54004-9
www.mega.de

Responsibility Statement: Department productsector paints and coatings
Telephone: 040 54004-528
E-mail address technik@mega.de

1.4. Emergency telephone number

Emergency Telephone: +49 40 / 54004 - 528 (Mo. - Tue. 7.15 - 16.30 Uhr, Fr. bis 12.00 Uhr)

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 3 - (H226)
Aspiration hazard	Category 1 - (H304)
Specific target organ toxicity (single exposure)	Category 3 - (H336)
Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label elements

Signal word: **Danger**

Hazard components for labeling:
Contains hydrocarbons, C9 - 10, n.alkanes, i-alkanes, cyclics, < 2% aromates, hydrocarbons, C9, aromats

Hazard statements:
H226 - Flammable liquid and vapor.
H304 - May be fatal if swallowed and enters airways.
H336 - May cause drowsiness or dizziness.
H412 - Harmful to aquatic life with long lasting effects.

EU Specific Hazard Statements:
EUH066 - Repeated exposure may cause skin dryness or cracking.

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
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
P331 - Do NOT induce vomiting
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.

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 (EU Index No)	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight-%
hydrocarbons, C9 - 10,	-	927-241-2	01-2119471843-32	Flam. Liq. 3 (H226)	75 - < 100

n.alkanes, i-alkanes, cyclics, < 2% aromates				Asp. Tox. 1 (H304) STOT SE 3 (H336) Aquatic Chronic 3 (H412) (EUH066)	
hydrocarbons, C9, aromats	-	918-668-5	01-2119455851-35	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) STOT SE 3 (H335) STOT SE 3 (H336) Aquatic Chronic 2 (H411) (EUH066)	10 - < 25
Isopropylbenzene	98-82-8	202-704-5	01-2119473983-24	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) STOT SE 3 (H335) Aquatic Chronic 2 (H411)	0.1 - < 0.25
Benzene	71-43-2	200-753-7	01-2119447106-44	Flam. Liq. 2 (H225) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Muta. 1B (H340) Carc. 1A (H350) STOT RE 1 (H372)	0.005 - < 0.01

Chemical name	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
Isopropylbenzene 98-82-8				C
Benzene 71-43-2				E

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, C9 - 10, n.alkanes, i-alkanes, cyclics, < 2% aromates -	2001	2001	No data available	No data available	No data available
hydrocarbons, C9, aromats -	3592	3200	No data available	No data available	No data available
Isopropylbenzene 98-82-8	1400	10578	39	21.557	No data available
Benzene 71-43-2	1800	8208.2	44.66	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=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 clothes and shoes.
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.

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	Risk of ignition. Keep product and empty container away from heat and sources of

chemical:	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 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 contact with skin and eyes. 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. 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.

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
Isopropylbenzene 98-82-8	* during exposure monitoring, account should be taken of relevant biological monitoring values as suggested by the Scientific Committee on Occupational Exposure Limits for Chemicals Agents (SCOEL) STEL: 250 mg/m³ during exposure monitoring, account should be taken of relevant biological monitoring values as suggested by the	TWA: 10 ppm TWA: 50 mg/m³ STEL 50 ppm STEL 250 mg/m³ H*	TWA: 20 ppm TWA: 100 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ D*	STEL: 50 ppm STEL: 250 mg/m³ TWA: 10 ppm TWA: 50 mg/m³ K*	TWA: 10 ppm TWA: 50 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ *

	Scientific Committee on Occupational Exposure Limits for Chemicals Agents (SCOEL) STEL: 50 ppm during exposure monitoring, account should be taken of relevant biological monitoring values as suggested by the Scientific Committee on Occupational Exposure Limits for Chemicals Agents (SCOEL) TWA: 50 mg/m³ during exposure monitoring, account should be taken of relevant biological monitoring values as suggested by the Scientific Committee on Occupational Exposure Limits for Chemicals Agents (SCOEL) TWA: 10 ppm during exposure monitoring, account should be taken of relevant biological monitoring values as suggested by the Scientific Committee on Occupational Exposure Limits for Chemicals Agents (SCOEL) *				
Benzene 71-43-2	TWA: 1 ppm TWA: 3.25 mg/m³ *	H*	TWA: 1 ppm TWA: 3.25 mg/m³ D*	TWA: 3.25 mg/m³ TWA: 1 ppm K*	TWA: 1 ppm TWA: 3.25 mg/m³ *
Chemical name	**Cyprus**	**Czech Republic**	**Denmark**	**Estonia**	**Finland**
Isopropylbenzene 98-82-8	* STEL: 50 ppm STEL: 250 mg/m³ TWA: 20 ppm TWA: 100 mg/m³	TWA: 100 mg/m³ Ceiling: 250 mg/m³ D*	TWA: 10 ppm TWA: 50 mg/m³ H*	TWA: 20 ppm TWA: 100 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ A*	TWA: 10 ppm TWA: 50 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ iho*
Benzene 71-43-2	* TWA: 1 ppm TWA: 3.25 mg/m³	TWA: 3 mg/m³ Ceiling: 10 mg/m³ D*	TWA: 0.5 ppm TWA: 1.6 mg/m³ H*	TWA: 0.5 ppm TWA: 1.5 mg/m³ STEL: 3 ppm STEL: 9 mg/m³ A*	TWA: 1 ppm TWA: 3.25 mg/m³ iho*
Chemical name	**France**	**Germany TRGS**	**Germany DFG**	**Greece**	**Hungary**
hydrocarbons, C9 - 10, n.alkanes, i-alkanes, cyclics, < 2% aromates -			TWA: 50 ppm TWA: 300 mg/m³ Ceiling / Peak: 100 ppm Ceiling / Peak: 600 mg/m³		

			RCP: C9-14 aliphates: STEL: 300 mg/m³ - 2(II)		
hydrocarbons, C9, aromats -		RCP: C9-14 aromates: STEL: 50 mg/m³ - 2(II)	RCP: C9-14 aromates: STEL: 50 mg/m³ - 2(II)		
Isopropylbenzene 98-82-8	TWA: 20 ppm TWA: 100 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ *	TWA: 10 ppm TWA: 50 mg/m³ H*	TWA: 10 ppm TWA: 50 mg/m³ Peak: 40 ppm Peak: 200 mg/m³ *	TWA: 50 ppm TWA: 245 mg/m³ STEL: 75 ppm STEL: 370 mg/m³ *	TWA: 50 mg/m³ STEL: 250 mg/m³ b*
Benzene 71-43-2	TWA: 1 ppm TWA: 3.25 mg/m³ STEL: 1500 mg/m³ *	H*	*	TWA: 3.25 mg/m³ TWA: 1.0 ppm *	TWA: 3.25 mg/m³ b*

Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Isopropylbenzene 98-82-8	TWA: 10 ppm TWA: 50 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ Sk*	TWA: 20 ppm TWA: 100 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ cute*	TWA: 50 ppm TWA: 246 mg/m³	TWA: 10 ppm TWA: 50 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ Ada*	O* TWA: 50 mg/m³ TWA: 10 ppm STEL: 170 mg/m³ STEL: 35 ppm
Benzene 71-43-2	TWA: 1 ppm TWA: 3.25 mg/m³ STEL: 3 ppm STEL: 9.75 mg/m³ Sk*	TWA: 3.25 mg/m³ TWA: 1 ppm cute*	TWA: 0.5 ppm TWA: 1.6 mg/m³ STEL: 2.5 ppm STEL: 8 mg/m³ cute*	TWA: 1 ppm TWA: 3.25 mg/m³ Ada*	O* TWA: 1 ppm TWA: 3.25 mg/m³ STEL: 6 ppm STEL: 19 mg/m³

Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Isopropylbenzene 98-82-8	Peau* STEL: 50 ppm STEL: 250 mg/m³ TWA: 20 ppm TWA: 100 mg/m³	skin* STEL: 50 ppm STEL: 250 mg/m³ TWA: 20 ppm TWA: 100 mg/m³	TWA: 50 mg/m³ STEL: 250 mg/m³ H*	TWA: 50 mg/m³ TWA: 10 ppm STEL: 250 mg/m³ STEL: 50 ppm H*	STEL: 250 mg/m³ TWA: 50 mg/m³ skóra*
Benzene 71-43-2			TWA: 0.7 mg/m³ H*	TWA: 0.2 ppm TWA: 0.66 mg/m³ STEL: 0.6 ppm STEL: 1.98 mg/m³ H*	TWA: 1.6 mg/m³ skóra*

Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Isopropylbenzene 98-82-8	TWA: 10 ppm TWA: 50 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ Cutânea*	TWA: 20 ppm TWA: 100 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ P*	TWA: 20 ppm TWA: 500 mg/m³ K* Ceiling: 250 mg/m³	TWA: 10 ppm TWA: 50 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ K*	TWA: 20 ppm TWA: 100 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ vía dérmica*
Benzene 71-43-2	TWA: 1 ppm TWA: 3.25 mg/m³ STEL: 2.5 ppm Cutânea*	TWA: 1 ppm TWA: 3.25 mg/m³ P*	TWA: 1.0 ppm TWA: 3.25 mg/m³ STEL: 5.0 ppm STEL: 16.25 mg/m³ K*	TWA: 1 ppm TWA: 3.25 mg/m³ K*	TWA: 1 ppm TWA: 3.25 mg/m³ vía dérmica*

Chemical name	Sweden	Switzerland	United Kingdom	Russia	Turkey
Isopropylbenzene 98-82-8	NGV: 10 ppm NGV: 50 mg/m³ Bindande KGV: 50 ppm Bindande KGV: 250 mg/m³ *	TWA: 20 ppm TWA: 100 mg/m³ STEL: 80 ppm STEL: 400 mg/m³ H*	TWA: 25 ppm TWA: 125 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ Sk*	TWA: 50 mg/m³ MAC: 150 mg/m³	TWA: 20 ppm TWA: 100 mg/m³ STEL: 50 ppm STEL: 250 mg/m³ S*
Benzene 71-43-2	NGV: 0.5 ppm NGV: 1.5 mg/m³ Bindande KGV: 3 ppm Bindande KGV: 9 mg/m³ *	TWA: 0.5 ppm TWA: 1.6 mg/m³ H*	TWA: 1 ppm TWA: 3.25 mg/m³ STEL: 3 ppm STEL: 9.75 mg/m³ Sk*	TWA: 5 mg/m³ MAC: 15 mg/m³ Skin	TWA: 1 ppm TWA: 3.25 mg/m³ S*

Biological occupational exposure limits:

Chemical name	European Union	Germany DFG	Netherlands	Spain	United Kingdom	Hungary
Isopropylbenzene 98-82-8	-	10 mg/g Creatinine (urine - 2-Phenyl-2-propanol (after hydrolysis) end of shift) 10 mg/g Creatinine - BAT (end of exposure or end of shift) urine		7 mg/g Creatinine - urine (2-Phenyl-2-propanol) - end of shift	-	
Benzene 71-43-2	-	0.3 µg/g Creatinine - BAR (end of exposure or end of shift) urine 150 µg/g Creatinine - BAR (end of exposure or end of shift) urine 0.3 µg/L - BAR (end of exposure or end of shift) urine 0.5 µg/L - (end of exposure or end of shift) - urine 0.8 µg/L - (end of exposure or end of shift) - urine 1.5 µg/L - (end of exposure or end of shift) - urine 2.75 µg/L - (end of exposure or end of shift) - urine 5.0 µg/L - (end of exposure or end of shift) - urine 7.5 µg/L - (end of exposure or end of shift) - urine 12.5 µg/L - (end of exposure or end of shift) - urine 300 µg/g Creatinine - (end of exposure or end of shift) - urine 500 µg/g Creatinine - (end of exposure or end of shift) - urine 750 µg/g Creatinine - (end of exposure or end of shift) - urine 1200 µg/g Creatinine - (end of exposure or end		0.045 mg/g Creatinine - urine (S-Phenyl mercapturic acid) - end of exposure or end of shift 2 mg/L - urine (trans, trans-Muconic acid) - end of exposure or end of shift	-	0.04 mg/g Creatinine (urine - s-Phenyl mercapturic acid end of shift) 0.22 µmol/mmol Creatinine (urine - s-Phenyl mercapturic acid end of shift)

Chemical name	European Union	Germany DFG	Netherlands	Spain	United Kingdom	Hungary
		of shift) - urine 1.5 µg/g Creatinine - (end of exposure or end of shift) - urine 3 µg/g Creatinine - (end of exposure or end of shift) - urine 5 µg/g Creatinine - (end of exposure or end of shift) - urine 12 µg/g Creatinine - (end of exposure or end of shift) - urine 25 µg/g Creatinine - (end of exposure or end of shift) - urine 45 µg/g Creatinine - (end of exposure or end of shift) - urine 90 µg/g Creatinine - (end of exposure or end of shift) - urine				

Chemical name	France	Italy MDLPS	Portugal	Finland	Denmark	Czech Republic
Benzene 71-43-2	5 mg/L - urine (Muconic acid) - end of shift	-	-			

Chemical name	Austria	Switzerland	Poland	Norway	Ireland	Russia
Isopropylbenzene 98-82-8	-	20 mg/g creatinine - urine (2-Phenyl-2-propanol after hydrolysis) - end of shift	-	-	-	
Benzene 71-43-2	10 g/dL Hemoglobin (blood - by the first screening and once yearly or for work in cokery plants every six months) 12 g/dL Hemoglobin (blood - by the first screening and once yearly or for work in cokery plants every six months) 79 - 97 fL mean corpuscular	25 µg/g creatinine - urine (S-Phenyl-mercapturic acid) - end of shift 500 µg/g creatinine - urine (t,t-Muconic acid) - end of shift	-	-	25 µg/g Creatinine (urine - s-Phenylmercapturic acid end of shift) 500 µg/g Creatinine (urine - t,t-Muconic acid end of shift)	

Chemical name	Austria	Switzerland	Poland	Norway	Ireland	Russia
	volume (blood - by the first screening and once yearly or for work in cokery plants every six months) 3.8 million/µL Erythrocytes (blood - by the first screening and once yearly or for work in cokery plants every six months) 3.2 million/µL Erythrocytes (blood - by the first screening and once yearly or for work in cokery plants every six months) 13000 Leukocytes/µL (blood - by the first screening and once yearly or for work in cokery plants every six months) 4000 Leukocytes/µL (blood - by the first screening and once yearly or for work in cokery plants every six months) 130000 Thrombocytes/µL (blood - by the first screening and once yearly or for work in cokery plants every six months) 150000 Thrombocytes/µL (blood - by the first screening and once yearly or for work in cokery plants every six months) 1.6 mg/L (urine - t,t-Muconic acid after end of work day, at the end of a work week/end of the shift)					

Derived No Effect Level (DNEL):

component information:

Worker - inhalative:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Isopropylbenzene	100 mg/m³			250 mg/m³

Worker - dermal:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Isopropylbenzene	15.4 mg/kg bw/day			

Consumer - inhalative:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Isopropylbenzene	16.6 mg/m³			

Consumer - dermal:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Isopropylbenzene	1.2 mg/kg bw/day			

consumer - oral:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Isopropylbenzene	5 mg/kg bw/day			

Predicted No Effect Concentration (PNEC):

component information:

Chemical name	Isopropylbenzene CAS: 98-82-8
Freshwater	0.035 mg/L
Marine water	0.0035 mg/L
Freshwater (intermittent release)	0.012 mg/L
Sewage treatment	200 mg/L
Freshwater sediment	3.22 mg/kg sediment dw
Marine sediment	0.322 mg/kg sediment dw
Soil	0.624 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
FKM (fluoro rubber)	0.4 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 characteristic

				Conditions	*Method*	*Remarks*
Melting point / melting range						Not established
Boiling point / boiling range		145 - 185	°C			
Flammability						Not established
Decomposition temperature						not relevant
Flash point	~	42	°C			
Autoignition temperature		240	°C			
Lower explosive limit		0.6	Vol%			
Upper explosion limit		6.5	Vol%			
Vapor pressure	>	1100	hPa	50 °C		
Density	~	0.785	g/cm³	20 °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
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: None known based on information supplied.

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.

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.

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms: Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Numerical measures of toxicity:

Acute toxicity: The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral): 2,440.20 mg/kg
ATEmix (dermal): 2,440.20 mg/kg

Component Information:

Chemical name	Parameter	Species	effektive Dosis	Method
hydrocarbons, C9 - 10, n.alkanes, i-alkanes, cyclics, < 2% aromates -	Oral LD50	Rat	> 5000 mg/kg	OECD 401
hydrocarbons, C9, aromats -	Oral LD50	Rat	3592 mg/kg	OECD 401
Isopropylbenzene 98-82-8	Oral LD50	Rat	1400 mg/kg	
Benzene 71-43-2	Oral LD50	Rat	1800 mg/kg	

Chemical name	Parameters	Species	Effective dose	Method
hydrocarbons, C9 - 10, n.alkanes, i-alkanes, cyclics, < 2% aromates -	Dermal LD50	Rabbit	> 2000 mg/kg	OECD 402
hydrocarbons, C9, aromats -	Dermal LD50	Rabbit	> 3160 mg/kg	OECD 402
Isopropylbenzene 98-82-8	Dermal LD50	Rabbit	12300 µL/kg	
Benzene 71-43-2	Dermal LD50	Rabbit	> 8200 mg/kg	

Chemical name	Parameters	Species	Effective dose	Exposure time	Method
hydrocarbons, C9 - 10, n.alkanes, i-alkanes, cyclics, < 2% aromates -	Inhalation LC50	Rat	> 5000 mg/m³	8 h	OECD 403
Isopropylbenzene 98-82-8	Inhalation LC50	Rat	39000 mg/m³	4 h	

Chemical name	Parameters	Species	Effective dose	Exposure time	Method
Benzene 71-43-2	Inhalation LC50	Rat	44.66 mg/L	4 h	

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

Skin corrosion/irritation: No information available.

Serious eye damage/eye irritation: No information available.

Respiratory or skin sensitization: No information available.

Germ cell mutagenicity: 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 mutagenic.

Chemical name	European Union
Benzene 71-43-2	Muta. 1B

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

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union
Benzene	Carc. 1A

Reproductive toxicity: No information available.

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: Harmful to aquatic life with long lasting effects.

fish toxicity:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
hydrocarbons, C9 - 10, n.alkanes, i-alkanes, cyclics, < 2% aromates -	LL50	Oncorhynchus mykiss	10 - 30 mg/L	96 h	
hydrocarbons, C9, aromats -	LC50	Oncorhynchus mykiss	9.22 mg/L	96 h	
Isopropylbenzene 98-82-8	LC50	Pimephales promelas Oncorhynchus mykiss Poecilia reticulata	6.04 - 6.61 mg/L 2.7 mg/L 5.1 mg/L	96 h	
Benzene 71-43-2	LC50	Pimephales promelas Oncorhynchus mykiss Lepomis macrochirus Poecilia reticulata	10.7 - 14.7 mg/L 5.3 mg/L 22.49 mg/L 70000 - 142000 µg/L	96 h	

toxicity to crustacea:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
hydrocarbons, C9 - 10, n.alkanes, i-alkanes, cyclics, < 2% aromates -	EL50	Daphnia magna	22 - 46 mg/L	48 h	
hydrocarbons, C9, aromats -	EC50	Daphnia magna	6.14 mg/L	48 h	
Isopropylbenzene 98-82-8	EC50	Daphnia magna	7.9 - 14.1 mg/L	48 h	
Benzene 71-43-2	EC50	Daphnia magna	8.76 - 15.6 mg/L	48 h	

Algae Toxicity:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
hydrocarbons, C9 - 10, n.alkanes, i-alkanes, cyclics, < 2% aromates -	EL50	Pseudokirchneriella subcapitata	> 1000 mg/L	72 h	
hydrocarbons, C9, aromats -	EL50	Pseudokirchneriella subcapitata	2.6 - 2.9 mg/L	72 h	
Isopropylbenzene 98-82-8	EC50	Pseudokirchneriella subcapitata	2.6 mg/L	72 h	
Benzene 71-43-2	EC50	Pseudokirchneriella subcapitata	29 mg/L	72 h	

12.2. Persistence and degradability

Persistence and degradability:

Chemical name	degradation rate	test duration	Rapidly biodegradable	Remarks	Method
hydrocarbons, C9 - 10, n.alkanes, i-alkanes,	89 %	28 d	Yes		

Chemical name	degradation rate	test duration	Rapidly biodegradable	Remarks	Method
cyclics, < 2% aromates -					
hydrocarbons, C9, aromats -			Yes		

12.3. Bioaccumulative potential

Bioaccumulation:

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
hydrocarbons, C9 - 10, n.alkanes, i-alkanes, cyclics, < 2% aromates -	1.99	
Isopropylbenzene 98-82-8	3.7	35.5
Benzene 71-43-2	2.1	3.5 - 4.4

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: No information available

Chemical name	PBT and vPvB assessment
Isopropylbenzene 98-82-8	The substance is not PBT / vPvB
Benzene 71-43-2	The substance is not PBT / vPvB PBT assessment does not apply

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:	UN1300
RID:	UN1300
IMDG:	UN1300
IATA:	UN1300

14.2 UN proper shipping name

ADR: TURPENTINE SUBSTITUTE
UN1300, TURPENTINE SUBSTITUTE, 3, III, Environmentally Hazardous

RID: TURPENTINE SUBSTITUTE
UN1300, TURPENTINE SUBSTITUTE, 3, III, Environmentally Hazardous

IMDG: TURPENTINE SUBSTITUTE
UN1300, TURPENTINE SUBSTITUTE, 3, III, (42°C C.C.), MARINE POLLUTANT

IATA: TURPENTINE SUBSTITUTE
UN1300, TURPENTINE SUBSTITUTE, 3, III

14.3. Transport hazard class(es)

ADR:	3
Hazard label(s)	3
Classification code	F1
ADR Hazard Id (Kemmler Number)	30
Tunnel restriction code	(D/E)
Limited quantity (LQ)	5 L
Excepted quantity	E1
RID:	3
Labels	3
Classification code	F1
IMDG:	3
Hazard label(s)	3
Limited quantity (LQ)	5 L
Excepted quantity	E1
EmS-No	F-E, S-E
IATA:	3
Hazard label(s)	3
Excepted quantity	E1

14.4. Packing group

ADR:	III
RID:	III
IMDG:	III
IATA:	III

14.5. Environmental hazards

ADR:	Yes
RID:	Yes
IMDG:	Marine pollutant
IATA:	Yes

14.6. Special precautions for user

ADR:	Not regulated
Special Provisions:	None
RID:	Not regulated
Special Provisions:	None
IMDG:	
Special Provisions:	223
IATA:	
Special Provisions:	A3
ERG Code	3L

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:

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, C9 - 10, n.alkanes, i-alkanes, cyclics, < 2% aromates -		28. 29.
hydrocarbons, C9, aromats -		3. 28.

		29. 40.
Benzene 71-43-2		72. 5. 28. 29.

Persistent Organic Pollutants: Not applicable
(EC) 2019/1021

Export Notification requirements: This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

Chemical name	European Export/Import Restrictions per (EC) 689/2008 - Annex Number
Benzene 71-43-2	I.1

Dangerous substance category per Seveso Directive (2012/18/EU):
P5a - FLAMMABLE LIQUIDS
P5b - FLAMMABLE LIQUIDS
P5c - FLAMMABLE LIQUIDS

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

EU - Water Framework Directive (2000/60/EC):

Chemical name	EU - Water Framework Directive (2000/60/EC)
Benzene 71-43-2	Priority substance

EU - Environmental Quality Standards (2008/105/EC):

Chemical name	EU - Environmental Quality Standards (2008/105/EC)
Benzene 71-43-2	Priority Substance ([4])

volatile organic compounds (VOC) content:
acc. reg. 2010/75/EG: 100 %
acc. reg. 2004/42/EG (Decopaint): 785 g/L

National regulations:

Denmark:

Chemical name	Denmark - MAL
Isopropylbenzene 98-82-8	25 m3/10 g substance MAL factor >0 % by weight [1]
Benzene 71-43-2	880 m3/10 g substance MAL factor >=0.1 % by weight [6]

Germany:

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

Chemical name	WGK Classification (AwSV)	ID number
hydrocarbons, C9 - 10, n.alkanes, i-alkanes, cyclics, < 2% aromates -	1	-
hydrocarbons, C9, aromats -	2	775

Isopropylbenzene 98-82-8	1	58
Benzene 71-43-2	3	29

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, C9 - 10, n.alkanes, i-alkanes, cyclics, < 2% aromates -	RG 84
hydrocarbons, C9, aromats -	RG 84
Isopropylbenzene 98-82-8	RG 84
Benzene 71-43-2	RG 4, RG 4bis, RG 84

RG 4 - Blood diseases caused by benzene and any benzene-containing products
RG 4bis - Gastrointestinal conditions caused by benzene, toluene, xylenes, and any products containing them
RG 84 - Occupational conditions caused by liquid organic solvents

Netherlands:

Chemical name	Benzene
Netherlands - List of Carcinogens	Present X
Netherlands - List of Mutagens	Present
ZZS list: SVHC	x ()

Water contaminating class (Netherlands): B (4)

Austria:

Flammable Liquids Regulations, VbF: Flammable liquids AII

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

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 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:
EUH066 - Repeated exposure may cause skin dryness or cracking
H225 - Highly flammable liquid and vapor
H226 - Flammable liquid and vapor
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H340 - May cause genetic defects
H350 - May cause cancer
H372 - Causes damage to organs through prolonged or repeated exposure
H411 - Toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects

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 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
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	Calculation method
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)
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: 20-Aug-2021
This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006:

Disclaimer:
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet