

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: 19-Aug-2021
Print Date: 13-Jan-2023

Revision Number: 1

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

1.1. Product identifier

Product Name: **Mega 902 Universalverduenner**
Article number: 061110540000
UFI: JTPV-2030-200D-QQ95

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 2 - (H225)
Aspiration hazard	Category 1 - (H304)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity (single exposure)	Category 3 - (H336)
Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label elements

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Signal word: **Danger**

Hazard components for labeling:

Contains Ethyl acetate, Acetone, n-Butyl acetate, Xylene (reaction product of xylene and ethylbenzene)

Hazard statements:

- H225 - Highly flammable liquid and vapor.
- H304 - May be fatal if swallowed and enters airways.
- H315 - Causes skin irritation.
- H319 - Causes serious eye irritation.
- H336 - May cause drowsiness or dizziness.
- H412 - Harmful to aquatic life with long lasting effects.

EU Specific Hazard Statements:

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. Placed on the market in aerosol containers or in containers fitted with a sealed spray attachment.

2.3. Other hazards

Toxic to aquatic life.

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.	Weight-%
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				1272/2008 [CLP]	
Ethyl acetate	141-78-6	205-500-4	01-2119475103-46	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) STOT SE 3 (H336) (EUH066)	25 - < 50
Acetone	67-64-1	200-662-2	01-2119471330-49	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) STOT SE 3 (H336) (EUH066)	25 - < 50
n-Butyl acetate	123-86-4	204-658-1	01-2119485493-29	Flam. Liq. 3 (H226) STOT SE 3 (H336) (EUH066)	10 - < 25
Xylene (reaction product of xylene and ethylbenzene)	-	905-588-0	01-2119539452-40	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Acute Tox. 4 (H312) Acute Tox. 4 (H332) STOT SE 3 (H335) STOT RE 2 (H373)	5 - < 10
Ethyl alcohol	64-17-5	200-578-6	01-2119457610-43	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319)	5 - < 10
Hydrocarbons, C7, n-alkanes, i-alkanes, cyclics	-	927-510-4	01-2119475515-33	Flam. Liq. 2 (H225) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) STOT SE 3 (H336) Aquatic Chronic 2 (H411)	3 - < 5
Isopropyl alcohol	67-63-0	200-661-7	01-2119457558-25	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) STOT SE 3 (H336)	3 - < 5
Hydrocarbons, C6, i-alkanes, < 5% Hexane	-	931-254-9	01-2119484651-34	Flam. Liq. 2 (H225) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) STOT SE 3 (H336) Aquatic Chronic 2 (H411)	1 - < 3
1-Butanol	71-36-3	200-751-6	01-2119484630-38	Flam. Liq. 3 (H226) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT SE 3 (H335) STOT SE 3 (H336)	1 - < 3
Methyl ethyl ketone	78-93-3	201-159-0	01-2119457290-43	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) STOT SE 3 (H336) (EUH066)	0.05 - < 0.1

Chemical name	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
Ethyl alcohol 64-17-5	Eye Irrit. 2 :: C>=50%			

Acute Toxicity Estimate:

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value

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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
Ethyl acetate 141-78-6	4934	20000	No data available	14.4131	No data available
Acetone 67-64-1	5800	15715.7	76	No data available	No data available
n-Butyl acetate 123-86-4	10768	17060	No data available	23.4	No data available
Xylene (reaction product of xylene and ethylbenzene) -	3523	12126	No data available	27.1	No data available
Ethyl alcohol 64-17-5	10470	2002	No data available	51	No data available
Hydrocarbons, C7, n-alkanes, i-alkanes, cyclics -	5841	2921	No data available	No data available	No data available
Isopropyl alcohol 67-63-0	5840	13400	72.6	30	No data available
Hydrocarbons, C6, i-alkanes, < 5% Hexane -	5001	3001	No data available	No data available	No data available
1-Butanol 71-36-3	2292	3430	No data available	24.2762	No data available
Methyl ethyl ketone 78-93-3	2194	5002	No data available	34	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-%
Xylenes (o-, m-, p- isomers) 1330-20-7	1330-20-7	215-535-7	01-2119488216-32	Flam. Liq. 3 (H226) Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Acute Tox. 4 (H332)	5 - < 10
Ethylbenzene 100-41-4	100-41-4	202-849-4	01-2119489370-35	Flam. Liq. 2 (H225) Asp. Tox. 1 (H304) Acute Tox. 4 (H332) STOT RE 2 (H373)	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.

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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. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
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. May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
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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

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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. Avoid contact with skin, eyes or clothing.

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
Ethyl acetate 141-78-6	STEL: 1468 mg/m ³ STEL: 400 ppm TWA: 734 mg/m ³ TWA: 200 ppm	TWA: 200 ppm TWA: 734 mg/m ³ STEL 400 ppm STEL 1468 mg/m ³	TWA: 200 ppm TWA: 734 mg/m ³ STEL: 400 ppm STEL: 1468 mg/m ³	STEL: 1468 mg/m ³ STEL: 400 ppm TWA: 734 mg/m ³ TWA: 200 ppm	TWA: 200 ppm TWA: 734 mg/m ³ STEL: 400 ppm STEL: 1468 mg/m ³
Acetone 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³	TWA: 500 ppm TWA: 1200 mg/m ³ STEL 2000 ppm STEL 4800 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³ STEL: 1000 ppm STEL: 2420 mg/m ³	STEL: 1400 mg/m ³ TWA: 600 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³
n-Butyl acetate 123-86-4	STEL: 723 mg/m ³ STEL: 150 ppm TWA: 241 mg/m ³ TWA: 50 ppm	TWA: 50 ppm TWA: 241 mg/m ³ STEL 100 ppm STEL 480 mg/m ³	TWA: 50 ppm TWA: 238 mg/m ³ STEL: 150 ppm STEL: 712 mg/m ³	STEL: 723 mg/m ³ STEL: 150 ppm TWA: 241 mg/m ³ TWA: 50 ppm	TWA: 50 ppm TWA: 241 mg/m ³ STEL: 150 ppm STEL: 723 mg/m ³
Xylene (reaction product of xylene and ethylbenzene) -	TWA: 50 ppm TWA: 221 mg/m ³ STEL 100 ppm STEL 442 mg/m ³	TWA: 50 ppm TWA: 221 mg/m ³ STEL 100 ppm STEL 442 mg/m ³	TWA: 50 ppm TWA: 221 mg/m ³ STEL 100 ppm STEL 442 mg/m ³		
Ethyl alcohol 64-17-5		TWA: 1000 ppm TWA: 1900 mg/m ³ STEL 2000 ppm STEL 3800 mg/m ³	TWA: 1000 ppm TWA: 1907 mg/m ³	TWA: 1000 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³
Isopropyl alcohol 67-63-0		TWA: 200 ppm TWA: 500 mg/m ³ STEL 800 ppm STEL 2000 mg/m ³	TWA: 200 ppm TWA: 500 mg/m ³ STEL: 400 ppm STEL: 1000 mg/m ³	STEL: 1225.0 mg/m ³ TWA: 980.0 mg/m ³	TWA: 400 ppm TWA: 999 mg/m ³ STEL: 500 ppm STEL: 1250 mg/m ³
1-Butanol 71-36-3		TWA: 50 ppm TWA: 150 mg/m ³	TWA: 20 ppm TWA: 62 mg/m ³	STEL: 150 mg/m ³ TWA: 100 mg/m ³	STEL: 50 ppm STEL: 154 mg/m ³

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		STEL 200 ppm STEL 600 mg/m ³	D*		*
Methyl ethyl ketone 78-93-3	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³	TWA: 100 ppm TWA: 295 mg/m ³ STEL 200 ppm STEL 590 mg/m ³ H*	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³	STEL: 885 mg/m ³ TWA: 590 mg/m ³	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³
Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Xylenes (o-, m-, p- isomers) 1330-20-7	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ *	TWA: 50 ppm TWA: 221 mg/m ³ STEL 100 ppm STEL 442 mg/m ³	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ D*	STEL: 100 ppm STEL: 442 mg/m ³ TWA: 50 ppm TWA: 221.0 mg/m ³ K*	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ *
Ethylbenzene 100-41-4	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³ *	TWA: 100 ppm TWA: 440 mg/m ³ STEL 200 ppm STEL 880 mg/m ³ H*	TWA: 20 ppm TWA: 87 mg/m ³ STEL: 125 ppm STEL: 551 mg/m ³ D*	STEL: 545 mg/m ³ TWA: 435 mg/m ³ K*	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³ *
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Ethyl acetate 141-78-6	STEL: 1468 mg/m ³ STEL: 400 ppm TWA: 734 mg/m ³ TWA: 200 ppm	TWA: 700 mg/m ³ Ceiling: 900 mg/m ³	TWA: 150 ppm TWA: 540 mg/m ³	TWA: 150 ppm TWA: 500 mg/m ³ STEL: 300 ppm STEL: 1100 mg/m ³	TWA: 200 ppm TWA: 730 mg/m ³ STEL: 400 ppm STEL: 1470 mg/m ³
Acetone 67-64-1	* TWA: 500 ppm TWA: 1210 mg/m ³	TWA: 800 mg/m ³ Ceiling: 1500 mg/m ³	TWA: 250 ppm TWA: 600 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³	TWA: 500 ppm TWA: 1200 mg/m ³ STEL: 630 ppm STEL: 1500 mg/m ³
n-Butyl acetate 123-86-4	STEL: 723 mg/m ³ STEL: 150 ppm TWA: 241 mg/m ³ TWA: 50 ppm	TWA: 241 mg/m ³ Ceiling: 723 mg/m ³	TWA: 50 ppm TWA: 241 mg/m ³	TWA: 100 ppm TWA: 500 mg/m ³ STEL: 150 ppm STEL: 700 mg/m ³	TWA: 50 ppm TWA: 240 mg/m ³ STEL: 150 ppm STEL: 725 mg/m ³
Xylene (reaction product of xylene and ethylbenzene) -			TWA: 25 ppm TWA: 109 mg/m ³ STEL 50 ppm STEL 218 mg/m ³		TWA: 50 ppm TWA: 220 mg/m ³ STEL 100 ppm STEL 440 mg/m ³
Ethyl alcohol 64-17-5		TWA: 1000 mg/m ³ Ceiling: 3000 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³	TWA: 500 ppm TWA: 1000 mg/m ³ STEL: 1000 ppm STEL: 1900 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³ STEL: 1300 ppm STEL: 2500 mg/m ³
Isopropyl alcohol 67-63-0		TWA: 500 mg/m ³ Ceiling: 1000 mg/m ³ D*	TWA: 200 ppm TWA: 490 mg/m ³	TWA: 150 ppm TWA: 350 mg/m ³ STEL: 250 ppm STEL: 600 mg/m ³	TWA: 200 ppm TWA: 500 mg/m ³ STEL: 250 ppm STEL: 620 mg/m ³
1-Butanol 71-36-3		TWA: 300 mg/m ³ Ceiling: 600 mg/m ³ D*	Ceiling: 50 ppm Ceiling: 150 mg/m ³ H*	TWA: 15 ppm TWA: 45 mg/m ³ STEL: 30 ppm STEL: 90 mg/m ³ A*	TWA: 50 ppm TWA: 150 mg/m ³ STEL: 75 ppm STEL: 230 mg/m ³ iho*
Methyl ethyl ketone 78-93-3	STEL: 300 ppm STEL: 900 mg/m ³ TWA: 200 ppm TWA: 600 mg/m ³	TWA: 600 mg/m ³ Ceiling: 900 mg/m ³	TWA: 50 ppm TWA: 145 mg/m ³ H*	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³	TWA: 20 ppm TWA: 60 mg/m ³ STEL: 100 ppm STEL: 300 mg/m ³ iho*
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Xylenes (o-, m-, p- isomers) 1330-20-7	* STEL: 100 ppm STEL: 442 mg/m ³ TWA: 50 ppm TWA: 221 mg/m ³	TWA: 200 mg/m ³ Ceiling: 400 mg/m ³ D*	TWA: 25 ppm TWA: 109 mg/m ³ H*	TWA: 50 ppm TWA: 200 mg/m ³ STEL: 100 ppm STEL: 450 mg/m ³ A*	TWA: 50 ppm TWA: 220 mg/m ³ STEL: 100 ppm STEL: 440 mg/m ³ iho*
Ethylbenzene 100-41-4	* STEL: 200 ppm STEL: 884 mg/m ³	TWA: 200 mg/m ³ Ceiling: 500 mg/m ³ D*	TWA: 50 ppm TWA: 217 mg/m ³ H*	S+ TWA: 100 ppm TWA: 442 mg/m ³	TWA: 50 ppm TWA: 220 mg/m ³ STEL: 200 ppm

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	TWA: 100 ppm TWA: 442 mg/m ³			STEL: 200 ppm STEL: 884 mg/m ³ A*	STEL: 880 mg/m ³ iho*
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Ethyl acetate 141-78-6	TWA: 400 ppm TWA: 1400 mg/m ³	TWA: 200 ppm TWA: 730 mg/m ³	TWA: 200 ppm TWA: 750 mg/m ³ Peak: 400 ppm Peak: 1500 mg/m ³	TWA: 200 ppm TWA: 734 mg/m ³ STEL: 400 ppm STEL: 1468 mg/m ³	TWA: 734 mg/m ³ STEL: 1468 mg/m ³
Acetone 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³ STEL: 1000 ppm STEL: 2420 mg/m ³	TWA: 500 ppm TWA: 1200 mg/m ³	TWA: 500 ppm TWA: 1200 mg/m ³ Peak: 1000 ppm Peak: 2400 mg/m ³	TWA: 1780 mg/m ³ STEL: 3560 mg/m ³	TWA: 1210 mg/m ³
n-Butyl acetate 123-86-4	TWA: 150 ppm TWA: 710 mg/m ³ STEL: 200 ppm STEL: 940 mg/m ³	TWA: 62 ppm TWA: 300 mg/m ³	TWA: 100 ppm TWA: 480 mg/m ³ Peak: 200 ppm Peak: 960 mg/m ³	TWA: 50 ppm TWA: 241 mg/m ³ STEL: 150 ppm STEL: 723 mg/m ³	TWA: 241 mg/m ³ STEL: 723 mg/m ³
Xylene (reaction product of xylene and ethylbenzene) -	TWA: 50 ppm TWA: 221 mg/m ³ STEL 100 ppm STEL 442 mg/m ³	TWA: 50 ppm TWA: 220 mg/m ³ STEL 100 ppm STEL 440 mg/m ³			TWA: 221 mg/m ³ STEL 442 mg/m ³
Ethyl alcohol 64-17-5	TWA: 1000 ppm TWA: 1900 mg/m ³ STEL: 5000 ppm STEL: 9500 mg/m ³	TWA: 200 ppm TWA: 380 mg/m ³	TWA: 200 ppm TWA: 380 mg/m ³ Peak: 800 ppm Peak: 1520 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³	TWA: 1900 mg/m ³ STEL: 3800 mg/m ³
Hydrocarbons, C7, n-alkanes, i-alkanes, cyclics -		RCP: C6-8 aliphates: STEL: 700 mg/m ³ - 2(II)	RCP: C6-8 aliphates: STEL: 700 mg/m ³ - 2(II)		
Isopropyl alcohol 67-63-0	STEL: 400 ppm STEL: 980 mg/m ³	TWA: 200 ppm TWA: 500 mg/m ³	TWA: 200 ppm TWA: 500 mg/m ³ Peak: 400 ppm Peak: 1000 mg/m ³	TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³	TWA: 500 mg/m ³ STEL: 1000 mg/m ³ b*
Hydrocarbons, C6, i-alkanes, < 5% Hexane -		RCP: C6-8 aliphates: STEL: 700 mg/m ³ - 2(II)	RCP: C6-8 aliphates: STEL: 700 mg/m ³ - 2(II)		
1-Butanol 71-36-3	STEL: 50 ppm STEL: 150 mg/m ³	TWA: 100 ppm TWA: 310 mg/m ³	TWA: 100 ppm TWA: 310 mg/m ³ Peak: 100 ppm Peak: 310 mg/m ³	TWA: 100 ppm TWA: 300 mg/m ³ STEL: 100 ppm STEL: 300 mg/m ³ *	TWA: 45 mg/m ³ STEL: 90 mg/m ³ b*
Methyl ethyl ketone 78-93-3	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³ *	TWA: 200 ppm TWA: 600 mg/m ³ H*	TWA: 200 ppm TWA: 600 mg/m ³ Peak: 200 ppm Peak: 600 mg/m ³ *	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³	TWA: 600 mg/m ³ STEL: 900 mg/m ³ b*
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Xylenes (o-, m-, p- isomers) 1330-20-7	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ *	TWA: 50 ppm TWA: 220 mg/m ³ H*	TWA: 50 ppm TWA: 220 mg/m ³ Peak: 100 ppm Peak: 440 mg/m ³ *	TWA: 100 ppm TWA: 435 mg/m ³ STEL: 150 ppm STEL: 650 mg/m ³ *	TWA: 221 mg/m ³ STEL: 442 mg/m ³ b*
Ethylbenzene 100-41-4	TWA: 20 ppm TWA: 88.4 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ *	TWA: 20 ppm TWA: 88 mg/m ³ H*	TWA: 20 ppm TWA: 88 mg/m ³ Peak: 40 ppm Peak: 176 mg/m ³ *	TWA: 100 ppm TWA: 435 mg/m ³ STEL: 125 ppm STEL: 545 mg/m ³	TWA: 442 mg/m ³ STEL: 884 mg/m ³ b*
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Ethyl acetate 141-78-6	TWA: 734 mg/m ³ TWA: 200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm	TWA: 734 mg/m ³ TWA: 200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm	TWA: 400 ppm TWA: 1441 mg/m ³	TWA: 200 mg/m ³ TWA: 54 ppm STEL: 1468 mg/m ³ STEL: 400 ppm	TWA: 150 ppm TWA: 500 mg/m ³ Ceiling: 300 ppm Ceiling: 1100 mg/m ³
Acetone 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³	TWA: 250 ppm TWA: 594 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³

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Mega 902 Universalverduenner - 061110540000

	STEL: 1500 ppm STEL: 3630 mg/m ³		STEL: 500 ppm STEL: 1187 mg/m ³		STEL: 1000 ppm STEL: 2420 mg/m ³
n-Butyl acetate 123-86-4	STEL: 150 ppm STEL: 723 mg/m ³	TWA: 241 mg/m ³ TWA: 50 ppm STEL: 723 mg/m ³ STEL: 150 ppm	TWA: 50 ppm TWA: 238 mg/m ³ STEL: 200 ppm STEL: 950 mg/m ³	TWA: 241 mg/m ³ TWA: 50 ppm STEL: 723 mg/m ³ STEL: 150 ppm	TWA: 241 mg/m ³ TWA: 50 ppm STEL: 723 mg/m ³ STEL: 150 ppm
Xylene (reaction product of xylene and ethylbenzene) -	TWA: 50 ppm TWA: 221 mg/m ³ STEL 100 ppm STEL 442 mg/m ³	TWA: 50 ppm TWA: 221 mg/m ³ STEL 100 ppm STEL 442 mg/m ³		TWA: 50 ppm TWA: 221 mg/m ³ STEL 100 ppm STEL 442 mg/m ³	
Ethyl alcohol 64-17-5	STEL: 1000 ppm		STEL: 1000 ppm STEL: 1884 mg/m ³	TWA: 1000 mg/m ³	TWA: 500 ppm TWA: 1000 mg/m ³ STEL: 1000 ppm STEL: 1900 mg/m ³
Isopropyl alcohol 67-63-0	TWA: 200 ppm STEL: 400 ppm Sk*		TWA: 200 ppm TWA: 492 mg/m ³ STEL: 400 ppm STEL: 983 mg/m ³	TWA: 350 mg/m ³ STEL: 600 mg/m ³	TWA: 150 ppm TWA: 350 mg/m ³ STEL: 250 ppm STEL: 600 mg/m ³
1-Butanol 71-36-3	TWA: 20 ppm STEL: 60 ppm Sk*		TWA: 20 ppm TWA: 61 mg/m ³	TWA: 10 mg/m ³	O* TWA: 15 ppm TWA: 45 mg/m ³ Ceiling: 30 ppm Ceiling: 90 mg/m ³
Methyl ethyl ketone 78-93-3	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³ Sk*	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³	TWA: 200 ppm TWA: 590 mg/m ³ STEL: 300 ppm STEL: 885 mg/m ³	TWA: 67 ppm TWA: 200 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³	
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Xylenes (o-, m-, p- isomers) 1330-20-7	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ Sk*	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ cute*	TWA: 100 ppm TWA: 434 mg/m ³ STEL: 150 ppm STEL: 651 mg/m ³	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ Ada*	O* TWA: 221 mg/m ³ TWA: 50 ppm STEL: 442 mg/m ³ STEL: 100 ppm
Ethylbenzene 100-41-4	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³ Sk*	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³ cute*	TWA: 20 ppm TWA: 87 mg/m ³	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³ Ada*	O* TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Ethyl acetate 141-78-6	STEL: 1468 mg/m ³ STEL: 400 ppm	STEL: 400 ppm STEL: 1468 mg/m ³ TWA: 200 ppm TWA: 734 mg/m ³	TWA: 734 mg/m ³ STEL: 1468 mg/m ³	TWA: 200 ppm TWA: 734 mg/m ³ STEL: 400 ppm STEL: 1468 mg/m ³	STEL: 1468 mg/m ³ TWA: 734 mg/m ³
Acetone 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³	TWA: 1210 mg/m ³ STEL: 2420 mg/m ³	TWA: 125 ppm TWA: 295 mg/m ³ STEL: 156.25 ppm STEL: 368.75 mg/m ³	STEL: 1800 mg/m ³ TWA: 600 mg/m ³
n-Butyl acetate 123-86-4		STEL: 150 ppm STEL: 723 mg/m ³ TWA: 50 ppm TWA: 214 mg/m ³	TWA: 241 mg/m ³ STEL: 723 mg/m ³	TWA: 241 mg/m ³ TWA: 50 ppm STEL: 723 mg/m ³ STEL: 150 ppm	STEL: 720 mg/m ³ TWA: 240 mg/m ³
Xylene (reaction product of xylene and ethylbenzene) -			TWA: 210 mg/m ³ STEL 442 mg/m ³	TWA: 25 ppm TWA: 108 mg/m ³	TWA: 100 mg/m ³ STEL 200 mg/m ³
Ethyl alcohol 64-17-5			TWA: 260 mg/m ³ STEL: 1900 mg/m ³ H*	TWA: 500 ppm TWA: 950 mg/m ³ STEL: 625 ppm STEL: 1187.5 mg/m ³	TWA: 1900 mg/m ³
Isopropyl alcohol 67-63-0				TWA: 100 ppm TWA: 245 mg/m ³ STEL: 150 ppm	STEL: 1200 mg/m ³ TWA: 900 mg/m ³ skóra*

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				STEL: 306.25 mg/m ³	
1-Butanol 71-36-3				Ceiling: 25 ppm Ceiling: 75 mg/m ³ H*	STEL: 150 mg/m ³ TWA: 50 mg/m ³ skóra*
Methyl ethyl ketone 78-93-3	STEL: 300 ppm STEL: 900 mg/m ³ TWA: 200 ppm TWA: 600 mg/m ³	STEL: 300 ppm STEL: 900 mg/m ³ TWA: 200 ppm TWA: 600 mg/m ³	TWA: 590 mg/m ³ STEL: 900 mg/m ³ H*	TWA: 75 ppm TWA: 220 mg/m ³ STEL: 112.5 ppm STEL: 275 mg/m ³	STEL: 900 mg/m ³ TWA: 450 mg/m ³ skóra*
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Xylenes (o-, m-, p- isomers) 1330-20-7	Peau* STEL: 100 ppm STEL: 442 mg/m ³ TWA: 50 ppm TWA: 221 mg/m ³	skin* STEL: 100 ppm STEL: 442 mg/m ³ TWA: 50 ppm TWA: 221 mg/m ³	TWA: 210 mg/m ³ STEL: 442 mg/m ³ H*	TWA: 25 ppm TWA: 108 mg/m ³ STEL: 37.5 ppm STEL: 135 mg/m ³ H*	STEL: 200 mg/m ³ TWA: 100 mg/m ³ skóra*
Ethylbenzene 100-41-4	Peau* STEL: 200 ppm STEL: 884 mg/m ³ TWA: 100 ppm TWA: 442 mg/m ³	skin* STEL: 200 ppm STEL: 884 mg/m ³ TWA: 100 ppm TWA: 442 mg/m ³	TWA: 215 mg/m ³ STEL: 430 mg/m ³ H*	TWA: 5 ppm TWA: 20 mg/m ³ STEL: 10 ppm STEL: 30 mg/m ³ H*	STEL: 400 mg/m ³ TWA: 200 mg/m ³ skóra*
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Ethyl acetate 141-78-6	TWA: 200 ppm TWA: 734 mg/m ³ STEL: 1468 mg/m ³ STEL: 400 ppm	TWA: 111 ppm TWA: 400 mg/m ³ STEL: 139 ppm STEL: 500 mg/m ³	TWA: 200 ppm TWA: 734 mg/m ³ Ceiling: 1100 mg/m ³	TWA: 200 ppm TWA: 734 mg/m ³ STEL: 400 ppm STEL: 1468 mg/m ³	TWA: 200 ppm TWA: 734 mg/m ³ STEL: 400 ppm STEL: 1468 mg/m ³
Acetone 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³ STEL: 750 ppm	TWA: 500 ppm TWA: 1210 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³ STEL: 2420 mg/m ³ STEL: 1000 ppm	TWA: 500 ppm TWA: 1210 mg/m ³
n-Butyl acetate 123-86-4	TWA: 50 ppm TWA: 241 mg/m ³ STEL: 150 ppm STEL: 723 mg/m ³	TWA: 150 ppm TWA: 715 mg/m ³ STEL: 200 ppm STEL: 950 mg/m ³	TWA: 100 ppm TWA: 500 mg/m ³ Ceiling: 700 mg/m ³	TWA: 241 mg/m ³ TWA: 50 ppm STEL: 150 ppm STEL: 723 mg/m ³	TWA: 150 ppm TWA: 724 mg/m ³ STEL: 200 ppm STEL: 965 mg/m ³
Xylene (reaction product of xylene and ethylbenzene) -		TWA: 50 ppm TWA: 221 mg/m ³ STEL 100 ppm STEL 442 mg/m ³			TWA: 50 ppm TWA: 221 mg/m ³ STEL 100 ppm STEL 442 mg/m ³
Ethyl alcohol 64-17-5	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ STEL: 5000 ppm STEL: 9500 mg/m ³	TWA: 500 ppm TWA: 960 mg/m ³ Ceiling: 1920 mg/m ³	TWA: 960 mg/m ³ TWA: 500 ppm STEL: 1000 ppm STEL: 1920 mg/m ³	STEL: 1000 ppm STEL: 1910 mg/m ³
Isopropyl alcohol 67-63-0	TWA: 200 ppm STEL: 400 ppm	TWA: 81 ppm TWA: 200 mg/m ³ STEL: 203 ppm STEL: 500 mg/m ³	TWA: 200 ppm TWA: 500 mg/m ³ Ceiling: 1000 mg/m ³	TWA: 200 ppm TWA: 500 mg/m ³ STEL: 400 ppm STEL: 1000 mg/m ³	TWA: 200 ppm TWA: 500 mg/m ³ STEL: 400 ppm STEL: 1000 mg/m ³
1-Butanol 71-36-3	TWA: 20 ppm	TWA: 33 ppm TWA: 100 mg/m ³ STEL: 66 ppm STEL: 200 mg/m ³	TWA: 100 ppm TWA: 310 mg/m ³ Ceiling: 310 mg/m ³	TWA: 100 ppm TWA: 310 mg/m ³ STEL: 100 ppm STEL: 310 mg/m ³	TWA: 20 ppm TWA: 61 mg/m ³ STEL: 50 ppm STEL: 154 mg/m ³
Methyl ethyl ketone 78-93-3	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³	TWA: 200 ppm TWA: 600 mg/m ³ Ceiling: 900 mg/m ³	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³ K*	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Xylenes (o-, m-, p- isomers) 1330-20-7	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ Cutânea*	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ P*	TWA: 50 ppm TWA: 221 mg/m ³ K* Ceiling: 442 mg/m ³	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ K*	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ via dérmica*
Ethylbenzene 100-41-4	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm	TWA: 100 ppm TWA: 442 mg/m ³ K*	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm	TWA: 100 ppm TWA: 441 mg/m ³ STEL: 200 ppm

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Mega 902 Universalverduenner - 061110540000

	STEL: 884 mg/m ³ Cutânea*	STEL: 884 mg/m ³ P*	Ceiling: 884 mg/m ³	STEL: 884 mg/m ³ K*	STEL: 884 mg/m ³ via dérmica*
Chemical name	Sweden	Switzerland	United Kingdom	Russia	Turkey
Ethyl acetate 141-78-6	NGV: 150 ppm NGV: 550 mg/m ³ Bindande KGV: 300 ppm Bindande KGV: 1100 mg/m ³	TWA: 200 ppm TWA: 730 mg/m ³ STEL: 400 ppm STEL: 1460 mg/m ³	TWA: 734 mg/m ³ TWA: 200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm	TWA: 50 mg/m ³ MAC: 200 mg/m ³	
Acetone 67-64-1	NGV: 250 ppm NGV: 600 mg/m ³ Vägledande KGV: 500 ppm Vägledande KGV: 1200 mg/m ³	TWA: 500 ppm TWA: 1200 mg/m ³ STEL: 1000 ppm STEL: 2400 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³ STEL: 1500 ppm STEL: 3620 mg/m ³	TWA: 200 mg/m ³ MAC: 800 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³
n-Butyl acetate 123-86-4	NGV: 50 ppm NGV: 241 mg/m ³ Bindande KGV: 150 ppm Bindande KGV: 723 mg/m ³	TWA: 50 ppm TWA: 240 mg/m ³ STEL: 150 ppm STEL: 720 mg/m ³	TWA: 150 ppm TWA: 724 mg/m ³ STEL: 200 ppm STEL: 966 mg/m ³	TWA: 50 mg/m ³ MAC: 200 mg/m ³	
Xylene (reaction product of xylene and ethylbenzene) -	TWA: 50 ppm TWA: 221 mg/m ³ STEL 100 ppm STEL 442 mg/m ³	TWA: 50 ppm TWA: 220 mg/m ³ STEL 100 ppm STEL 440 mg/m ³	TWA: 50 ppm TWA: 220 mg/m ³ STEL 100 ppm STEL 441 mg/m ³		TWA: 50 ppm TWA: 221 mg/m ³ STEL 100 ppm STEL 442 mg/m ³
Ethyl alcohol 64-17-5	NGV: 500 ppm NGV: 1000 mg/m ³ Vägledande KGV: 1000 ppm Vägledande KGV: 1900 mg/m ³	TWA: 500 ppm TWA: 960 mg/m ³ STEL: 1000 ppm STEL: 1920 mg/m ³	TWA: 1000 ppm TWA: 1920 mg/m ³ STEL: 3000 ppm STEL: 5760 mg/m ³	TWA: 1000 mg/m ³ MAC: 2000 mg/m ³	
Isopropyl alcohol 67-63-0	NGV: 150 ppm NGV: 350 mg/m ³ Vägledande KGV: 250 ppm Vägledande KGV: 600 mg/m ³	TWA: 200 ppm TWA: 500 mg/m ³ STEL: 400 ppm STEL: 1000 mg/m ³	TWA: 400 ppm TWA: 999 mg/m ³ STEL: 500 ppm STEL: 1250 mg/m ³	TWA: 10 mg/m ³ MAC: 50 mg/m ³	
1-Butanol 71-36-3	NGV: 15 ppm NGV: 45 mg/m ³ Bindande KGV: 30 ppm Bindande KGV: 90 mg/m ³ *	TWA: 100 ppm TWA: 310 mg/m ³ STEL: 100 ppm STEL: 310 mg/m ³	STEL: 50 ppm STEL: 154 mg/m ³ Sk*	TWA: 10 mg/m ³ MAC: 30 mg/m ³	
Methyl ethyl ketone 78-93-3	NGV: 50 ppm NGV: 150 mg/m ³ Bindande KGV: 300 ppm Bindande KGV: 900 mg/m ³	TWA: 200 ppm TWA: 590 mg/m ³ STEL: 200 ppm STEL: 590 mg/m ³ H*	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 899 mg/m ³ Sk*	TWA: 200 mg/m ³ MAC: 400 mg/m ³	TWA: 200 ppm TWA: 600 mg/m ³ STEL: 300 ppm STEL: 900 mg/m ³
Chemical name	Sweden	Switzerland	United Kingdom	Russia	Turkey
Xylenes (o-, m-, p- isomers) 1330-20-7	NGV: 50 ppm NGV: 221 mg/m ³ Bindande KGV: 100 ppm Bindande KGV: 442 mg/m ³ *	TWA: 100 ppm TWA: 435 mg/m ³ STEL: 200 ppm STEL: 870 mg/m ³ H*	TWA: 50 ppm TWA: 220 mg/m ³ STEL: 100 ppm STEL: 441 mg/m ³ Sk*	TWA: 50 mg/m ³ MAC: 150 mg/m ³	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ S*
Ethylbenzene 100-41-4	NGV: 50 ppm NGV: 220 mg/m ³ Bindande KGV: 200 ppm	TWA: 50 ppm TWA: 220 mg/m ³ STEL: 50 ppm STEL: 220 mg/m ³	TWA: 100 ppm TWA: 441 mg/m ³ STEL: 125 ppm STEL: 552 mg/m ³	TWA: 50 mg/m ³ MAC: 150 mg/m ³	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³

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	Bindande KGV: 884 mg/m ³ *	H*	Sk*		S*
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Biological occupational exposure limits:

Chemical name	European Union	Germany DFG	Netherlands	Spain	United Kingdom	Hungary
Acetone 67-64-1	-	80 mg/L (urine - Acetone end of shift) 50 mg/L - BAT (end of exposure or end of shift) urine 2.5 mg/L - BAR (end of exposure or end of shift) urine		50 mg/L - urine (Acetone) - end of shift	-	
Isopropyl alcohol 67-63-0	-	25 mg/L (whole blood - Acetone end of shift) 25 mg/L (urine - Acetone end of shift) 25 mg/L - BAT (end of exposure or end of shift) urine 25 mg/L - BAT (end of exposure or end of shift) blood		40 mg/L - urine (Acetone) - end of workweek	-	
1-Butanol 71-36-3	-	10 mg/g Creatinine (urine - 1-Butanol (after hydrolysis) end of shift) 2 mg/g Creatinine (urine - 1-Butanol (after hydrolysis) before beginning of next shift) 2 mg/g Creatinine - BAT (at the beginning of the next shift) urine 10 mg/g Creatinine - BAT (end of exposure or end of shift) urine			-	
Methyl ethyl ketone 78-93-3	-	2 mg/L (urine - 2-Butanone end of shift) 2 mg/L - BAT (end of exposure or end of shift) urine		2 mg/L - urine (Methyl ethyl ketone) - end of shift	70 µmol/L - urine (Butan-2-one) - post shift	

Chemical name	European Union	Germany DFG	Netherlands	Spain	United Kingdom	Hungary
Xylenes (o-, m-, p-isomers) 1330-20-7		2000 mg/L (urine - Methylhippuric(tolur)-acid (all isomers) end of		1 g/g Creatinine - urine (Methylhippuric acids) - end of shift	650 mmol/mol creatinine - urine (Methyl hippuric acid) - post shift	1500 mg/g Creatinine (urine - Methyl hippuric acid end of shift)

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Chemical name	European Union	Germany DFG	Netherlands	Spain	United Kingdom	Hungary
		shift) 2000 mg/L - BAT (end of exposure or end of shift) urine				860 µmol/mmol Creatinine (urine - Methyl hippuric acid end of shift)
Ethylbenzene 100-41-4		250 mg/g Creatinine (urine - Mandelic acid plus Phenylglyoxylic acid end of shift) 250 mg/g Creatinine - BAT (end of exposure or end of shift) urine 130 mg/g Creatinine - (end of exposure or end of shift) - urine 250 mg/g Creatinine - (end of exposure or end of shift) - urine 330 mg/g Creatinine - (end of exposure or end of shift) - urine 670 mg/g Creatinine - (end of exposure or end of shift) - urine 1300 mg/g Creatinine - (end of exposure or end of shift) - urine		700 mg/g Creatinine - urine (Mandelic acid plus Phenylglyoxylic acid) - end of workweek		1500 mg/g Creatinine (urine - Mandelic acid at end of workweek, end of shift) 1110 µmol/mmol Creatinine (urine - Mandelic acid at end of workweek, end of shift)

Chemical name	France	Italy MDLPS	Portugal	Finland	Denmark	Czech Republic
Acetone 67-64-1	100 mg/L - urine (Acetone) - end of shift	-	-			
Methyl ethyl ketone 78-93-3	2 mg/L - urine (Methylethylketon e) - end of shift	-	-			

Chemical name	France	Italy MDLPS	Portugal	Finland	Denmark	Czech Republic
Xylenes (o-, m-, p- isomers) 1330-20-7	1500 mg/g creatinine - urine (Methylhippuric acid) - end of shift			5.0 mmol/L - urine (Methylhippuric acid) - after the shift		
Ethylbenzene 100-41-4	1500 mg/g creatinine - urine (Mandelic acid) - end of shift at end of workweek			5.2 mmol/L - urine (Mandelic acid) - after the shift after a working week or exposure period		

Chemical name	Austria	Switzerland	Poland	Norway	Ireland	Russia
Acetone 67-64-1	-	80 mg/L - urine (Acetone) - end of shift	-	-	50 mg/L (urine - Acetone end of shift)	

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Chemical name	Austria	Switzerland	Poland	Norway	Ireland	Russia
Xylene (reaction product of xylene and ethylbenzene) -	1.5 g/L (urine - Methylhippuric acid after end of work day, at the end of a work week/end of the shift)	2 g/L - urine (Methylhippuric acid) - end of shift	-	-	-	
Isopropyl alcohol 67-63-0	-	25 mg/L - urine (Acetone) - end of shift 25 mg/L - whole blood (Acetone) - end of shift	-	-	40 mg/L (urine - Acetone end of shift at end of workweek)	
1-Butanol 71-36-3	-	10 mg/g creatinine - urine (n-Butanol) - end of shift 2 mg/g creatinine - urine (n-Butanol) -	-	-	-	
Methyl ethyl ketone 78-93-3	-	2 mg/L - urine (2-Butanone) - end of shift	-	-	70 µmol/L (urine - Butan-2-one post shift)	

Chemical name	Austria	Switzerland	Poland	Norway	Ireland	Russia
Xylenes (o-, m-, p-isomers) 1330-20-7	1.5 g/L (urine - Methylhippuric acid after end of work day, at the end of a work week/end of the shift)	2 g/L - urine (Methylhippuric acid) - end of shift			1.5 g/g Creatinine (urine - Methylhippuric acids end of shift)	
Ethylbenzene 100-41-4		600 mg/g creatinine - urine (Mandelic acid and Phenylglyoxylacid) - end of shift			0.7 g/g Creatinine (urine - sum of Mandelic acid and Phenylglyoxylic acid end of shift at end of workweek) 0.7 g (end-exhaled air - not critical)	

Derived No Effect Level (DNEL):

component information:

Worker - inhalative:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Ethyl acetate	734 mg/m ³	1468 mg/m ³	734 mg/m ³	1468 mg/m ³
Acetone	1210 mg/m ³			2420 mg/m ³
n-Butyl acetate	48 mg/m ³ 300 mg/m ³	600 mg/m ³	300 mg/m ³	600 mg/m ³
Xylene (reaction product of xylene and ethylbenzene)	221 mg/m ³	442 mg/m ³	221 mg/m ³	442 mg/m ³
Ethyl alcohol	950 mg/m ³			1900 mg/m ³
Isopropyl alcohol	500 mg/m ³			
1-Butanol			310 mg/m ³	
Methyl ethyl ketone	600 mg/m ³			

Worker - dermal:

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Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Ethyl acetate	63 mg/kg bw/day			
Acetone	186 mg/kg bw/day			
n-Butyl acetate	7 mg/kg bw/day 11 mg/kg bw/day	11 mg/kg bw/day		
Xylene (reaction product of xylene and ethylbenzene)	212 mg/kg bw/day			
Ethyl alcohol	343 mg/kg bw/day			
Isopropyl alcohol	888 mg/kg bw/day			
Methyl ethyl ketone	1161 mg/kg bw/day			

Consumer - inhalative:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Ethyl acetate	367 mg/m ³	734 mg/m ³	367 mg/m ³	734 mg/m ³
Acetone	200 mg/m ³			
n-Butyl acetate	12 mg/m ³ 35.7 mg/m ³	300 mg/m ³	35.7 mg/m ³	300 mg/m ³
Xylene (reaction product of xylene and ethylbenzene)	65.3 mg/m ³	260 mg/m ³	65.3 mg/m ³	260 mg/m ³
Ethyl alcohol	114 mg/m ³			950 mg/m ³
Isopropyl alcohol	89 mg/m ³			
1-Butanol	55.357 mg/m ³		155 mg/m ³	
Methyl ethyl ketone	106 mg/m ³			

Consumer - dermal:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Ethyl acetate	37 mg/kg bw/day			
Acetone	62 mg/kg bw/day			
n-Butyl acetate	3.4 mg/kg bw/day 6 mg/kg bw/day	6 mg/kg bw/day		
Xylene (reaction product of xylene and ethylbenzene)	125 mg/kg bw/day			
Ethyl alcohol	206 mg/kg bw/day			
Isopropyl alcohol	319 mg/kg bw/day			
1-Butanol	3.125 mg/kg bw/day			
Methyl ethyl ketone	412 mg/kg bw/day			

consumer - oral:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Ethyl acetate	4.5 mg/kg bw/day			
Acetone	62 mg/kg bw/day			
n-Butyl acetate	2 mg/kg bw/day 3.4 mg/kg bw/day	2 mg/kg bw/day		
Xylene (reaction product of xylene and ethylbenzene)	12.5 mg/kg bw/day			
Ethyl alcohol	87 mg/kg bw/day			
Isopropyl alcohol	26 mg/kg bw/day			

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Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
1-Butanol	1.5625 mg/kg bw/day			
Methyl ethyl ketone	31 mg/kg bw/day			

Predicted No Effect Concentration (PNEC):

component information:

Chemical name	Ethyl acetate CAS: 141-78-6
Freshwater	0.24 mg/L
Marine water	0.024 mg/L
Freshwater (intermittent release)	1.65 mg/L
Sewage treatment	650 mg/L
Freshwater sediment	1.15 mg/kg sediment dw
Marine sediment	0.115 mg/kg sediment dw
Soil	0.148 mg/kg soil dw
Food chain	0.2 g/kg food
Chemical name	Acetone CAS: 67-64-1
Freshwater	10.6 mg/L
Marine water	1.06 mg/L
Freshwater (intermittent release)	21 mg/L
Sewage treatment	100 mg/L
Freshwater sediment	30.4 mg/kg sediment dw
Marine sediment	3.04 mg/kg sediment dw
Soil	29.5 mg/kg soil dw
Chemical name	n-Butyl acetate CAS: 123-86-4
Freshwater	0.18 mg/L
Marine water	0.018 mg/L
Freshwater (intermittent release)	0.36 mg/L
Sewage treatment	35.6 mg/L
Freshwater sediment	0.981 mg/kg sediment dw
Marine sediment	0.0981 mg/kg sediment dw
Soil	0.0903 mg/kg soil dw
Chemical name	Xylene (reaction product of xylene and ethylbenzene) CAS: -
Freshwater	327 µg/L
Marine water	327 µg/L
Freshwater (intermittent release)	327 µg/L
Sewage treatment	6.58 mg/L
Freshwater sediment	12.46 mg/kg
Marine sediment	12.46 mg/kg
Soil	2.31 mg/kg
Chemical name	Ethyl alcohol CAS: 64-17-5
Freshwater	0.96 mg/L
Marine water	0.79 mg/L
Freshwater (intermittent release)	2.75 mg/L
Sewage treatment	580 mg/L
Freshwater sediment	3.6 mg/kg sediment dw
Marine sediment	2.9 mg/kg sediment dw

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Soil	0.63 mg/kg soil dw
Food chain	0.38 g/kg food 0.72 g/kg food
Chemical name	Isopropyl alcohol CAS: 67-63-0
Freshwater	140.9 mg/L
Marine water	140.9 mg/L
Freshwater (intermittent release)	140.9 mg/L
Sewage treatment	2251 mg/L
Freshwater sediment	552 mg/kg sediment dw
Marine sediment	552 mg/kg sediment dw
Soil	28 mg/kg soil dw
Food chain	160 mg/kg food
Chemical name	1-Butanol CAS: 71-36-3
Freshwater	0.082 mg/L
Marine water	0.0082 mg/L
Freshwater (intermittent release)	2.25 mg/L
Sewage treatment	2476 mg/L
Freshwater sediment	0.324 mg/kg sediment dw
Marine sediment	0.0324 mg/kg sediment dw
Soil	0.0166 mg/kg soil dw
Chemical name	Methyl ethyl ketone CAS: 78-93-3
Freshwater	55.8 mg/L
Marine water	55.8 mg/L
Freshwater (intermittent release)	55.8 mg/L
Sewage treatment	709 mg/L
Freshwater sediment	284.74 mg/kg sediment dw
Marine sediment	284.7 mg/kg sediment dw
Soil	22.5 mg/kg soil dw
Food chain	1000 mg/kg food
<i>Chemical name</i>	<i>Xylenes (o-, m-, p- isomers)</i> <i>CAS: 1330-20-7</i>
Freshwater	0.327 mg/L
Marine water	0.327 mg/L
Freshwater (intermittent release)	0.327 mg/L
Sewage treatment	6.58 mg/L
Freshwater sediment	12.46 mg/kg sediment dw
Marine sediment	12.46 mg/kg sediment dw
Soil	2.31 mg/kg soil dw
<i>Chemical name</i>	<i>Ethylbenzene</i> <i>CAS: 100-41-4</i>
Freshwater	0.1 mg/L
Marine water	0.01 mg/L 0.1 mg/L
Freshwater (intermittent release)	0.1 mg/L
Sewage treatment	9.6 mg/L
Freshwater sediment	13.7 mg/kg sediment dw
Marine sediment	1.37 mg/kg sediment dw
Soil	2.68 mg/kg soil dw
Food chain	0.02 g/kg food

8.2. Exposure controls

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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
Butyl caoutchouc (butyl rubber)	0.07 mm	>=60 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	56 - 145	°C			
Flammability					Not established
Decomposition temperature					not relevant
Flash point	~ -15	°C			
Autoignition temperature	240	°C			
Lower explosive limit	0.7	Vol%			
Upper explosion limit	19.5	Vol%			
Vapor pressure	> 1100	hPa	50 °C		
Density	~ 0.828	g/cm ³	20 °C		
Water solubility					partially miscible
pH					Not applicable
pH (as aqueous solution)					Not established
Partition coefficient					Not established
Kinematic viscosity	< 20.5	mm ² /s	40 °C		
Odor threshold					Not established
Relative density					Not established
Evaporation rate					Not established
Relative vapor density	no data available				

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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: Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products: None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure:

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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. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
- Skin contact:** Repeated exposure may cause skin dryness or cracking. Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).
- Ingestion:** Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics:

- Symptoms:** Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Numerical measures of toxicity:

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

ATEmix (oral):	10,123.90 mg/kg
ATEmix (dermal):	7,242.70 mg/kg
ATEmix (inhalation-dust/mist):	16.70 mg/l
ATEmix (inhalation-vapor):	59.40 mg/l

Component Information:

Chemical name	Parameter	Species	effektive Dosis	Method
Ethyl acetate 141-78-6	Oral LD50	Rabbit	4934 mg/kg	OECD 401
Acetone 67-64-1	Oral LD50	Rat	5800 mg/kg	OECD 401
n-Butyl acetate 123-86-4	Oral LD50	Rat	10768 mg/kg	OECD 423
Xylene (reaction product of xylene and ethylbenzene) -	Oral LD50	Rat	3523 mg/kg	EG92/69/EWG B.1
Ethyl alcohol 64-17-5	Oral LD50	Rat	10470 mg/kg	OECD 401
Hydrocarbons, C7, n-alkanes, i-alkanes, cyclics -	Oral LD50	Rat	> 5840 mg/kg	OECD 401
Isopropyl alcohol 67-63-0	Oral LD50	Rat	5480 mg/kg	OECD 401
Hydrocarbons, C6, i-alkanes, < 5% Hexane -	Oral LD50	Rat	> 5000 mg/kg	OECD 401

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Chemical name	Parameter	Species	effektive Dosis	Method
1-Butanol 71-36-3	Oral LD50	Rat	2292 mg/kg	OECD 401
Methyl ethyl ketone 78-93-3	Oral LD50	Rat	> 2193 mg/kg	OECD 423

Chemical name	Parameter	Species	effektive Dosis	Method
Xylenes (o-, m-, p- isomers) 1330-20-7	Oral LD50	Rat	3500 mg/kg	
Ethylbenzene 100-41-4	Oral LD50	Rat	3500 mg/kg	

Chemical name	Parameters	Species	Effective dose	Method
Ethyl acetate 141-78-6	Dermal LD50	Rabbit	> 20000 mg/kg	
Acetone 67-64-1	Dermal LD50	Rabbit	> 15700 mg/kg	
n-Butyl acetate 123-86-4	Dermal LD50	Rabbit	> 5000 mg/kg	OECD 402
Xylene (reaction product of xylene and ethylbenzene) -	Dermal LD50	Rabbit	12126 mg/kg	
Ethyl alcohol 64-17-5	Dermal LD50	Rabbit	> 2000 mg/kg	OECD 402
Hydrocarbons, C7, n-alkanes, i-alkanes, cyclics -	Dermal LD50	Rat	> 2920 mg/kg	OECD 402
Isopropyl alcohol 67-63-0	Dermal LD50	Rabbit	> 10000 mg/kg	OECD 402
Hydrocarbons, C6, i-alkanes, < 5% Hexane -	Dermal LD50	Rat	> 3000 mg/kg	OECD 402
1-Butanol 71-36-3	Dermal LD50	Rabbit	3430 mg/kg	OECD 402
Methyl ethyl ketone 78-93-3	Dermal LD50	Rabbit	> 5000 mg/kg	OECD 402

Chemical name	Parameters	Species	Effective dose	Method
Xylenes (o-, m-, p- isomers) 1330-20-7	Dermal LD50	Rabbit	> 4350 mg/kg	
Ethylbenzene 100-41-4	Dermal LD50	Rabbit	15400 mg/kg	

Chemical name	Parameters	Species	Effective dose	Exposure time	Method
Ethyl acetate 141-78-6	Inhalation LC50	Rat	> 6000 ppm	6 h	
Acetone 67-64-1	Inhalation LC50	Rat	76 mg/L	4 h	
n-Butyl acetate 123-86-4	Inhalation LC50	Rat	23.4 mg/m ³	4 h	OECD 403
Xylene (reaction product of xylene and ethylbenzene)	Inhalation LC50	Rat	27124 mg/m ³	4 h	

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Chemical name	Parameters	Species	Effective dose	Exposure time	Method
-					
Ethyl alcohol 64-17-5	Inhalation LC50	Rat	51 mg/L	4 h	OECD 403
Hydrocarbons, C7, n-alkanes, i-alkanes, cyclics -	Inhalation LC50	Rat	> 23.3 mg/L	4 h	OECD 403
Isopropyl alcohol 67-63-0	Inhalation LC50	Rat	> 25 mg/L	4 h	OECD 403
Hydrocarbons, C6, i-alkanes, < 5% Hexane -	Inhalation LC50	Rat	> 20 mg/L	4 h	OECD 403
1-Butanol 71-36-3	Inhalation LC50	Rat	> 8000 ppm	4 h	OECD 403
Methyl ethyl ketone 78-93-3	Inhalation LC50	Rat	34 g/m ³	4 h	

Chemical name	Parameters	Species	Effective dose	Exposure time	Method
Xylenes (o-, m-, p- isomers) 1330-20-7	Inhalation LC50	Rat	29.08 mg/L	4 h	
Ethylbenzene 100-41-4	Inhalation LC50	Rat	17.4 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:	Causes serious eye irritation.
Respiratory or skin sensitization:	No information available.
Germ cell mutagenicity:	No information available.
Carcinogenicity:	No information available.
Reproductive toxicity:	No information available.

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

STOT - single exposure:	May cause drowsiness or dizziness.
STOT - repeated exposure:	No information available.

Chemical name	Exposure route	Target Organs
Xylene (reaction product of xylene and ethylbenzene) -	Inhalation	auditory organs

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

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

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No information available.

11.2.2. Other information

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity: Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

fish toxicity:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Ethyl acetate 141-78-6	LC50 NOEC	Pimephales promelas	220 - 250 mg/L > 9.65 mg/L	96 h 32 d	
Acetone 67-64-1	LC50	Oncorhynchus mykiss	5540 mg/L	96 h	
n-Butyl acetate 123-86-4	LC50	Pimephales promelas	17 - 19 mg/L	96 h	OECD 203
Xylene (reaction product of xylene and ethylbenzene) -	LC50	Oncorhynchus mykiss	2.6 mg/L	96 h	OECD 203
Ethyl alcohol 64-17-5	LC50	Pimephales promelas	15300 mg/L	96 h	
Hydrocarbons, C7, n-alkanes, i-alkanes, cyclics -	LL50	Oncorhynchus mykiss	13.4 mg/L	96 h	
Isopropyl alcohol 67-63-0	LC50	Pimephales promelas	9640 mg/L	96 h	OECD 203
Hydrocarbons, C6, i-alkanes, < 5% Hexane -	LC50		> 1 mg/L	48 h	
1-Butanol 71-36-3	LC50	Pimephales promelas	1376 mg/L	96 h	OECD 203
Methyl ethyl ketone 78-93-3	LC50	Pimephales promelas	3130 - 3320 mg/L	96 h	OECD 203

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Xylenes (o-, m-, p- isomers) 1330-20-7	LC50	Pimephales promelas	13.4 mg/L	96 h	
Ethylbenzene 100-41-4	LC50	Oncorhynchus mykiss	4.2 mg/L	96 h	

toxicity to crustacea:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Ethyl acetate 141-78-6	EC50	Daphnia magna	560 mg/L 2.4 mg/L	48 h 21 d	- OECD 211
Acetone 67-64-1	EC50 NOEC	Daphnia pulex	8800 mg/L 2212 mg/L	48 h 28 d	

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Chemical name	Parameter	Species	Effective dose	Exposure time	Method
n-Butyl acetate 123-86-4	EC50	Daphnia magna	44 mg/L	48 h	OECD 202
Xylene (reaction product of xylene and ethylbenzene) -	LC 50	Daphnia magna	1.0 mg/L	24 h	OECD 202
Ethyl alcohol 64-17-5	EC50	Daphnia magna	12340 mg/L	48 h	
Isopropyl alcohol 67-63-0	EC50	Daphnia magna	13299 mg/L	48 h	OECD 202
Hydrocarbons, C6, i-alkanes, < 5% Hexane -	EC50	Daphnia magna	3.87 mg/L	48 h	
1-Butanol 71-36-3	EC50	Daphnia magna	1328 mg/L	48 h	OECD 202
Methyl ethyl ketone 78-93-3	EC50	Daphnia magna	> 520 mg/L	48 h	OECD 202

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Xylenes (o-, m-, p- isomers) 1330-20-7	EC50	Daphnia magna	3.82 mg/L	48 h	
Ethylbenzene 100-41-4	EC50	Daphnia magna	1.8 - 2.4 mg/L	48 h	

Algae Toxicity:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Ethyl acetate 141-78-6	EC50	Desmodesmus subspicatus	5600 mg/L > 100 mg/L	48 h 72 h	DIN 38412 OECD 201
Acetone 67-64-1	NOEC	Prorocentrum minimum	430 mg/L	96 h	
n-Butyl acetate 123-86-4	EC50	Desmodesmus subspicatus	674.7 mg/L	72 h	
Xylene (reaction product of xylene and ethylbenzene) -	EC50	Selenastrum capricornutum	2.2 mg/L	73 h	OECD 201
Ethyl alcohol 64-17-5	EC50	Chlorella vulgaris	275 mg/L	72 h	OECD 201
Hydrocarbons, C7, n-alkanes, i-alkanes, cyclics -	EL50	Pseudokirchneriella subcapitata	10 - 30 mg/L	72 h	
Isopropyl alcohol 67-63-0	EC50	Desmodesmus subspicatus	> 1000 mg/L	72 h	OECD 201
Hydrocarbons, C6, i-alkanes, < 5% Hexane -	NOELR	Pseudokirchneriella subcapitata	30 mg/L	72 h	
1-Butanol 71-36-3	EC50	Pseudokirchneriella subcapitata	225mg/L	96 h	
Methyl ethyl ketone 78-93-3	EC50	Pseudokirchneriella subcapitata	1972 mg/L	72 h	OECD 201

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Ethylbenzene	EC50	Pseudokirchneriella	4.6 mg/L	72 h	

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Chemical name	Parameter	Species	Effective dose	Exposure time	Method
100-41-4		subcapitata			

Bacteria toxicity:

Chemical name	Parameters	Species	Effective dose	Exposure time	Method
Ethyl acetate 141-78-6	EC 50	Photobacterium phosphoreum	5870 mg/L	15 min.	OECD 201
Acetone 67-64-1	EC 12	activated sludge	1000 mg/L	30 min.	
Xylene (reaction product of xylene and ethylbenzene) -	NOEC	activated sludge	16 mg/L	28 d	OECD 301 F
1-Butanol 71-36-3	EC10	pseudomonas putida	2476 mg/L	17 h	DIN 38412
Methyl ethyl ketone 78-93-3	EC0	pseudomonas putida	1150 mg/L	16 h	DIN 38412

12.2. Persistence and degradability

Persistence and degradability:

Chemical name	degradation rate	test duration	Rapidly biodegradable	Remarks	Method
Ethyl acetate 141-78-6	79 %	20 d	Yes		OECD 301 D
Acetone 67-64-1	91 %	28 d	Yes	Aerobic biological treatment	
n-Butyl acetate 123-86-4	23 %	28 d	Yes		
Xylene (reaction product of xylene and ethylbenzene) -	90 %	28 d	Yes		
Ethyl alcohol 64-17-5	97 %	28 d	Yes	Aerobic biological treatment	OECD 301 B
Hydrocarbons, C7, n-alkanes, i-alkanes, cyclics -	98 %	28 d	Yes	Aerobic biological treatment	
Isopropyl alcohol 67-63-0	53 %	5 d	Yes		
1-Butanol 71-36-3	92 %	20 d	Yes	Aerobic biological treatment	
Methyl ethyl ketone 78-93-3	98 %	28 d	Yes	Aerobic biological treatment	OECD 301 D

Chemical name	degradation rate	test duration	Rapidly biodegradable	Remarks	Method
Xylenes (o-, m-, p- isomers) 1330-20-7			Yes		

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Chemical name	degradation rate	test duration	Rapidly biodegradable	Remarks	Method
Ethylbenzene 100-41-4	70 - 80 %	28 d	Yes		

12.3. Bioaccumulative potential

Bioaccumulation:

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Ethyl acetate 141-78-6	0.73	30
Acetone 67-64-1	-0.24	0.69
n-Butyl acetate 123-86-4	1.81 2.3	15
Xylene (reaction product of xylene and ethylbenzene) -	3.16	25.9
Ethyl alcohol 64-17-5	-0.35	0.66
Isopropyl alcohol 67-63-0	0.05	< 500
1-Butanol 71-36-3	0.785	0.64
Methyl ethyl ketone 78-93-3	0.3	<= 500

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Xylenes (o-, m-, p- isomers) 1330-20-7	3	0.6 - 15
Ethylbenzene 100-41-4	3	15

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
Ethyl acetate 141-78-6	The substance is not PBT / vPvB PBT assessment does not apply
Acetone 67-64-1	The substance is not PBT / vPvB
n-Butyl acetate 123-86-4	The substance is not PBT / vPvB
Ethyl alcohol 64-17-5	The substance is not PBT / vPvB PBT assessment does not apply
Hydrocarbons, C7, n-alkanes, i-alkanes, cyclics	The substance is not PBT / vPvB

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-	
Isopropyl alcohol 67-63-0	The substance is not PBT / vPvB
Hydrocarbons, C6, i-alkanes, < 5% Hexane -	The substance is not PBT / vPvB
1-Butanol 71-36-3	The substance is not PBT / vPvB
Methyl ethyl ketone 78-93-3	The substance is not PBT / vPvB
<i>Chemical name</i>	<i>PBT and vPvB assessment</i>
Xylenes (o-, m-, p- isomers) 1330-20-7	The substance is not PBT / vPvB
Ethylbenzene 100-41-4	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties.

No information available.

12.7. Other adverse effects.

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products: Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

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

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

SECTION 14: Transport information

14.1. UN number

ADR: UN1993
RID: UN1993
IMDG: UN1993
IATA: UN1993

14.2 UN proper shipping name

ADR: Ethyl methyl ketone mixture
UN1993, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Propylene glycol monomethyl ether), 3, II

RID: FLAMMABLE LIQUID, N.O.S.
UN1993, FLAMMABLE LIQUID, N.O.S. (2-(2-Aminoethoxy)ethanol), 3, II

IMDG: FLAMMABLE LIQUID, N.O.S.
UN1993, FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, 1-BUTANOL), 3, II, (-15°C C.C.)

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IATA: FLAMMABLE LIQUID, N.O.S.
UN1993, FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, 1-BUTANOL), 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-E

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: No
RID: No
IMDG: no marine pollutant
IATA: No

14.6. Special precautions for user

ADR:
Special Provisions: 274, 601, 640C
RID:
Special Provisions: 274, 601, 640D
IMDG:
Special Provisions: 274
IATA:
Special Provisions: A3
ERG Code 3H

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

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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
Ethyl acetate 141-78-6		3 40
Acetone 67-64-1		3 40
Isopropyl alcohol 67-63-0		3 40
1-Butanol 71-36-3		75.
Methyl ethyl ketone 78-93-3		3
<i>Chemical name</i>	<i>Substance subject to authorization per REACH Annex XIV</i>	<i>Restricted substance per REACH Annex XVII</i>
Xylenes (o-, m-, p- isomers) 1330-20-7		75.

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

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

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
Isopropyl alcohol 67-63-0	1 - Human hygiene 2 - Disinfectants and algaecides not intended for direct application to humans or animals

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Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
	4 - Food and feed area disinfectant

volatile organic compounds (VOC) content:
acc. reg. 2010/75/EG: 96.9 %
acc. reg. 2004/42/EG (Decopaint): 802 g/L

National regulations:

Denmark:

Chemical name	Denmark - MAL
Ethyl acetate 141-78-6	13 m3/10 g substance MAL factor >0 % by weight [1]
Acetone 67-64-1	23 m3/10 g substance MAL factor >0 % by weight [1]
n-Butyl acetate 123-86-4	14 m3/10 g substance MAL factor >0 % by weight [1]
Ethyl alcohol 64-17-5	7 m3/10 g substance MAL factor >0 % by weight [1]
Isopropyl alcohol 67-63-0	29 m3/10 g substance MAL factor >0 % by weight [1]
Methyl ethyl ketone 78-93-3	48 m3/10 g substance MAL factor >0 % by weight [1]
<i>Chemical name</i>	<i>Denmark - MAL</i>
Xylenes (o-, m-, p- isomers) 1330-20-7	46 m3/10 g substance MAL factor >=10.0 % by weight [3]
Ethylbenzene 100-41-4	[]

Germany:

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

Chemical name	WGK Classification (AwSV)	ID number
Ethyl acetate 141-78-6	1	95
Acetone 67-64-1	1	6
n-Butyl acetate 123-86-4	1	42
Xylene (reaction product of xylene and ethylbenzene) -	2	206
Ethyl alcohol 64-17-5	1	96
Hydrocarbons, C7, n-alkanes, i-alkanes, cyclics -	2	120
Isopropyl alcohol 67-63-0	1	135
Hydrocarbons, C6, i-alkanes, < 5% Hexane -	2	-
1-Butanol 71-36-3	1	39

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Methyl ethyl ketone 78-93-3	1	150
<i>Chemical name</i>	<i>WGK Classification (AwSV)</i>	<i>ID number</i>
Xylenes (o-, m-, p- isomers) 1330-20-7	2	206
Ethylbenzene 100-41-4	1	99

TA Luft (German Air Pollution Control Regulation):
org. substances (Ziffer 5.2.5): 85 - 90%
org. subst. (digit 5.2.5) class I: 5 - 10%

Storage class (TRGS 510): LGK 3 - Flammable liquids

France: _

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

Chemical name	French RG number
Ethyl acetate 141-78-6	RG 84
Acetone 67-64-1	RG 84
n-Butyl acetate 123-86-4	RG 84
Ethyl alcohol 64-17-5	RG 84
Isopropyl alcohol 67-63-0	RG 84
1-Butanol 71-36-3	RG 84
Methyl ethyl ketone 78-93-3	RG 84

Chemical name	French RG number
Xylenes (o-, m-, p- isomers) 1330-20-7	RG 4bis, RG 84
Ethylbenzene 100-41-4	RG 84

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	Ethyl alcohol
Netherlands - List of Carcinogens	Present X
Netherlands - List of Reproductive Toxins	Fertility Category 1A Development Category 1A Can be harmful via breastfeeding

Chemical name	Xylenes (o-, m-, p- isomers)
Netherlands - List of Reproductive Toxins	Development Category 2

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Chemical name	Ethylbenzene
(p)ZVS list: potential SVHC	x

Water contaminating class (Netherlands): A (3)

Austria:

Flammable Liquids Regulations, VbF: Flammable liquids: A1

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: 96.9 %

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	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply
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

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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:

EUH066 - Repeated exposure may cause skin dryness or cracking

H225 - Highly flammable liquid and vapor

H226 - Flammable liquid and vapor

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H312 - Harmful in contact with skin

H315 - Causes skin irritation

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H373 - May cause damage to organs through prolonged or repeated exposure

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: 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

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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 - 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

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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: 15-Jun-2022

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