

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-Dec-2023

Revision Number: 1

Print Date: 13-Apr-2024

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

1.1. Product identifier

Product Name: CLEANING THINNER
Article number: 400017240730/0060759
UFI: PN21-R083-W00X-C2QT

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

Product categories [PC]: PC9a - Coatings and paints, thinners, paint removers
PC35 - Washing and cleaning products (including solvent based products)
Sector of uses [SU]: SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
Process categories [PROC]: PROC7 - Industrial spraying
PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC10 - Roller application or brushing
PROC11 - Non industrial spraying
PROC13 - Treatment of articles by dipping and pouring
PROC19 - Hand-mixing with intimate contact and only PPE available
PROC28 - Manual maintenance (cleaning and repair) of machinery
Environmental release categories [ERC]: ERC2 - Formulation of preparations (mixtures)
ERC4 - Industrial use of processing aids in processes and products, not becoming part of articles

1.3. Details of the supplier of the safety data sheet

Supplier: Kluthe Benelux B.V.
Produktieweg 8
NL-2404 Alphen aan den Rijn
Telefon:+31 172/ 516 000
Telefax: +31 172/ 439 494
www.kluthe.com
E-mail address sds.nl@kluthe.com

1.4. Emergency telephone number

Emergency Telephone: +44 20 3885 0382 (CHEMTREC, 24h/7/365; CCN: 1012799)
CHEMTREC local:
DE: 0800 1817059 AT: +43 1 3649237 CH: +41 435081970
NL: +31 85 888 0596 BE: +32 2 808 32 37 FR: +33 9 75 18 14 07
ES: +34 931768511 PT: +351 308 801 773 IT: +39 02 4555 7031
DK: +45 69 91 85 73 SE: +46 8 525 034 03 FI: +358 9 42419014
PL: +48 22 398 80 29 CZ: +420 228 880 039 SK: +421 2/330 579 72
SI: +386 1 888 80 16 HU: +36 1 808 8425 RO: +40 376 300 026
UK: +44 20 3807 3798

Emergency Telephone - §45 - (EC)1272/2008	
Austria	+43 1 406 43 43 (Giftinformationszentrale)
Bulgaria	+359 2 9154 213 (Pirogov)
Italy	Centro Antiveleni di Milano: 02.66101029; Centro Antiveleni di Roma: 06.3054343;

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	Centro Antiveleni di Roma: 06.49978000; Centro Antiveleni di Roma: 06.68593726; Centro Antiveleni di Pavia: 0382.24444; Centro Antiveleni di Firenze: 055.7947819; Centro Antiveleni di Bergamo: 800.883300; Centro Antiveleni di Foggia: 0881.732326; Centro Antiveleni di Napoli: 081.7472870; Centro Antiveleni di Verona: 800.011.858
Slovakia	+421 2 5477 4166 (NTIC)
Hungary	+36 80 201 199; +36 1 476 6464 (ETTSZ)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flammable liquids	Category 2 - (H225)
Aspiration hazard	Category 1 - (H304)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Reproductive toxicity	Category 2 - (H361)
Specific target organ toxicity (single exposure)	Category 3 - (H336) Narcotic effects
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label elements



Signal word: **Danger**

Hazard components for labeling:

Contains Toluene, Acetone

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.

H361d - Suspected of damaging the unborn child.

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

H412 - Harmful to aquatic life with long lasting effects.

EU Specific Hazard Statements:

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

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

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

P331 - Do NOT induce vomiting

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

2.3. Other hazards

PBT & vPvB: This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Endocrine Disruptor Information: 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-%
Toluene	108-88-3	203-625-9	01-2119471310-51	Flam. Liq. 2 (H225) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) STOT SE 3 (H336) Repr. 2 (H361d) STOT RE 2 (H373) Aquatic Chronic 3 (H412)	50 - < 75
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

Acute Toxicity Estimate:

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATE_{mix}) 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
Toluene 108-88-3	5580	12124	28	No data available	No data available
Acetone 67-64-1	5800	15715.7	76	No data available	No data available

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

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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. 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.
Effects of Exposure	No information available.

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 (CO2). Water spray. Alcohol resistant foam.
Large Fire:	CAUTION: Use of water spray when fighting fire may be inefficient.

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

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters: Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all 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

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7.1. Precautions for safe handling



Advice on safe handling:

Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. 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
Toluene 108-88-3	TWA: 50 ppm TWA: 192 mg/m ³ *	TWA: 50 ppm TWA: 190 mg/m ³ STEL 100 ppm STEL 380 mg/m ³ H*	TWA: 20 ppm TWA: 77 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³ D*	STEL: 100 ppm STEL: 384.0 mg/m ³ TWA: 50 ppm TWA: 192.0 mg/m ³ K*	TWA: 50 ppm TWA: 192 mg/m ³ STEL: 100 ppm STEL: 384 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
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland

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Toluene 108-88-3	* STEL: 100 ppm STEL: 384 mg/m ³ TWA: 50 ppm TWA: 192 mg/m ³	TWA: 200 mg/m ³ Ceiling: 500 mg/m ³ D*	TWA: 25 ppm TWA: 94 mg/m ³ H*	TWA: 50 ppm TWA: 192 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³ A*	TWA: 25 ppm TWA: 81 mg/m ³ STEL: 100 ppm STEL: 380 mg/m ³ iho*
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
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Toluene 108-88-3	TWA: 20 ppm TWA: 76.8 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³ *	TWA: 50 ppm TWA: 190 mg/m ³ H*	TWA: 50 ppm TWA: 190 mg/m ³ Peak: 100 ppm Peak: 380 mg/m ³ *	TWA: 50 ppm TWA: 192 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³ *	TWA: 190 mg/m ³ STEL: 380 mg/m ³ b*
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
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Toluene 108-88-3	TWA: 192 mg/m ³ TWA: 50 ppm STEL: 384 mg/m ³ STEL: 100 ppm Sk*	TWA: 50 ppm TWA: 192 mg/m ³ cute*	TWA: 20 ppm TWA: 75.4 mg/m ³	TWA: 14 ppm TWA: 50 mg/m ³ STEL: 40 ppm STEL: 150 mg/m ³ Ada*	O* TWA: 50 ppm TWA: 192 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³
Acetone 67-64-1	TWA: 500 ppm TWA: 1210 mg/m ³ STEL: 1500 ppm STEL: 3630 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³	TWA: 250 ppm TWA: 594 mg/m ³ STEL: 500 ppm STEL: 1187 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³ STEL: 1000 ppm STEL: 2420 mg/m ³
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Toluene 108-88-3	Peau* STEL: 100 ppm STEL: 384 mg/m ³ TWA: 50 ppm TWA: 192 mg/m ³	skin* STEL: 100 ppm STEL: 384 mg/m ³ TWA: 50 ppm TWA: 192 mg/m ³	TWA: 150 mg/m ³ STEL: 384 mg/m ³	TWA: 25 ppm TWA: 94 mg/m ³ STEL: 37.5 ppm STEL: 141 mg/m ³ H*	STEL: 200 mg/m ³ TWA: 100 mg/m ³ skóra*
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
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Toluene 108-88-3	TWA: 50 ppm TWA: 192 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³ Cutânea*	TWA: 50 ppm TWA: 192 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³ P*	TWA: 50 ppm TWA: 192 mg/m ³ K* Ceiling: 384 mg/m ³	TWA: 50 ppm TWA: 192 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³ K*	TWA: 50 ppm TWA: 192 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³ vía dérmica*
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
Chemical name	Sweden	Switzerland	United Kingdom	Russia	Turkey
Toluene 108-88-3	NGV: 50 ppm NGV: 192 mg/m ³ Bindande KGV: 100 ppm Bindande KGV: 384 mg/m ³ *	TWA: 50 ppm TWA: 190 mg/m ³ STEL: 200 ppm STEL: 760 mg/m ³ H*	TWA: 50 ppm TWA: 191 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³ Sk*	TWA: 50 mg/m ³ MAC: 150 mg/m ³	TWA: 50 ppm TWA: 192 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³ S*
Acetone 67-64-1	NGV: 250 ppm NGV: 600 mg/m ³ Vägledande KGV: 500 ppm	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

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	Vägledande KGV: 1200 mg/m ³				
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Biological occupational exposure limits:

Chemical name	European Union	Germany DFG	Netherlands	Spain	United Kingdom	Hungary
Toluene 108-88-3	-	600 µg/L (whole blood - Toluene immediately after exposure) 75 µg/L (urine - Toluene end of shift) 1.5 mg/L (urine - o-Cresol (after hydrolysis) for long-term exposures: at the end of the shift after several shifts) 1.5 mg/L (urine - o-Cresol (after hydrolysis) end of shift) 600 µg/L - BAT (immediately after exposure) blood 75 µg/L - BAT (end of exposure or end of shift) urine 1.5 mg/L - BAT (for long-term exposures: at the end of the shift after several shifts) urine 1.5 mg/L - BAT (end of exposure or end of shift) urine		0.6 mg/L - urine (o-Cresol) - end of shift 0.05 mg/L - blood (Toluene) - start of last shift of workweek 0.08 mg/L - urine (Toluene) - end of shift	-	1 mg/g Creatinine (urine - o-Cresol end of shift) 1 µmol/mmol Creatinine (urine - o-Cresol end of shift)
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	-	

Chemical name	France	Italy MDLPS	Portugal	Finland	Denmark	Czech Republic
Toluene 108-88-3	1 mg/L - venous blood (Toluene) - end of shift 2500 mg/g creatinine - urine (Hippuric acid) -	-	-	500 nmol/L - blood (Toluene) - in the morning after a working day		

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Chemical name	France	Italy MDLPS	Portugal	Finland	Denmark	Czech Republic
	end of shift					
Acetone 67-64-1	100 mg/L - urine (Acetone) - end of shift	-	-			

Chemical name	Austria	Switzerland	Poland	Norway	Ireland	Russia
Toluene 108-88-3	10 g/dL Hemoglobin (blood - by the first screening and once yearly) 12 g/dL Hemoglobin (blood - by the first screening and once yearly) 3.2 million/ μ L Erythrocytes (blood - by the first screening and once yearly) 3.8 million/ μ L Erythrocytes (blood - by the first screening and once yearly) 4000 Leukocytes/ μ L (blood - by the first screening and once yearly) 13000 Leukocytes/ μ L (blood - by the first screening and once yearly) 130000 Thrombocytes/ μ L (blood - by the first screening and once yearly) 150000 Thrombocytes/ μ L (blood - by the first screening and once yearly) 0.8 mg/L (urine - o-Cresol after end of work day, at the end of a work week/end of the shift)	600 μ g/L - whole blood (Toluene) - end of shift 6.48 μ mol/L - whole blood (Toluene) - end of shift 2 g/g creatinine - urine (Hippuric acid) - end of shift, and after several shifts (for long-term exposures) 1.26 mmol/mmol creatinine - urine (Hippuric acid) - end of shift, and after several shifts (for long-term exposures) 0.5 mg/L - urine (o-Cresol) - end of shift, and after several shifts (for long-term exposures) 4.62 μ mol/L - urine (o-Cresol) - end of shift, and after several shifts (for long-term exposures) 75 μ g/L - urine (Toluol) - end of shift	-	-	0.02 mg/L (blood - Toluene prior to last shift of workweek) 0.03 mg/L (urine - Toluene end of shift) 0.3 mg/g Creatinine (urine - o-Cresol end of shift)	
Acetone 67-64-1	-	80 mg/L - urine (Acetone) - end of shift 1.38 mmol/L - urine (Acetone) - end of shift	-	-	50 mg/L (urine - Acetone end of shift)	

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Derived No Effect Level (DNEL):

component information:

Worker - inhalative:

Chemical name	long-term, systemic	short-term, systemic	long-term, local	short-term, local
Toluene	192 mg/m ³	384 mg/m ³	192 mg/m ³	384 mg/m ³
Acetone	1210 mg/m ³			2420 mg/m ³

Worker - dermal:

Chemical name	long-term, systemic	short-term, systemic	long-term, local	short-term, local
Toluene	384 mg/kg bw/day			
Acetone	186 mg/kg bw/day			

Consumer - inhalative:

Chemical name	long-term, systemic	short-term, systemic	long-term, local	short-term, local
Toluene	56.5 mg/m ³	226 mg/m ³	56.5 mg/m ³	226 mg/m ³
Acetone	200 mg/m ³			

Consumer - dermal:

Chemical name	long-term, systemic	short-term, systemic	long-term, local	short-term, local
Toluene	226 mg/kg bw/day			
Acetone	62 mg/kg bw/day			

Consumer - oral:

Chemical name	long-term, systemic	short-term, systemic	long-term, local	short-term, local
Toluene	8.13 mg/kg bw/day			
Acetone	62 mg/kg bw/day			

Predicted No Effect Concentration (PNEC):

component information:

Chemical name	Toluene CAS: 108-88-3
Freshwater	0.68 mg/L
Marine water	0.68 mg/L
Freshwater (intermittent release)	0.68 mg/L
Sewage treatment	13.61 mg/L
Freshwater sediment	16.39 mg/kg sediment dw
Marine sediment	16.39 mg/kg sediment dw
Soil	2.89 mg/kg soil dw
Chemical name	Acetone

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	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

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
Wear protective Viton™ gloves	0.7 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	55 - 115 °C		
Flammability			Not established
Decomposition temperature			not relevant
Flash point	~ -14 °C		
Autoignition temperature	510 °C		
Lower explosive limit	1.7 Vol%		
Upper explosion limit	9.6 Vol%		

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Vapor pressure	15.4	kPa	20 °C	
Density	0.825 - 0.835	g/cm ³	20 °C	
Water solubility	~ 47.8	%		Not applicable
pH				Not applicable
pH (as aqueous solution)				Not established
Partition coefficient				Not established
Kinematic viscosity				Not applicable
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: Strong acids. Strong bases. Strong oxidizing agents.

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10.6. Hazardous decomposition products

Hazardous decomposition products: None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure:

Product Information:

Inhalation: Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. May cause drowsiness or dizziness.

Eye contact: Specific test data for the substance or mixture is not available. May cause irritation. 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: No information available

Component Information:

Chemical name	Parameter	Species	Effective dose	Method
Toluene 108-88-3	Oral LD50	Rat	5580 mg/kg	OECD 401
Acetone 67-64-1	Oral LD50	Rat	5800 mg/kg	OECD 401

Chemical name	Parameters	Species	Effective dose	Method
Toluene 108-88-3	Dermal LD50	Rabbit	> 5000 mg/kg	
Acetone 67-64-1	Dermal LD50	Rabbit	> 15700 mg/kg	

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Chemical name	Parameters	Species	Effective dose	Exposure time	Method
Toluene 108-88-3	Inhalation LC50	Rat	28.1 mg/L	4 h	OECD 403
Acetone 67-64-1	Inhalation LC50	Rat	76 mg/L	4 h	

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

Skin corrosion/irritation:	Causes skin irritation.
Serious eye damage/eye irritation:	Causes serious eye irritation.
Respiratory or skin sensitization:	No information available.
Germ cell mutagenicity:	No information available.
Carcinogenicity:	No information available.
Reproductive toxicity:	Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. Suspected of damaging fertility or the unborn child.

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

Chemical name	European Union
Toluene	Repr. 2

STOT - single exposure:	May cause drowsiness or dizziness.
STOT - repeated exposure:	May cause damage to organs through prolonged or repeated exposure.

Chemical name	Exposure route	Target Organs
Toluene 108-88-3	Inhalation	nervous system

Aspiration hazard:	May be fatal if swallowed and enters airways.
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11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No information available.

11.2.2. Other information

No information available.

SECTION 12: Ecological information

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12.1. Toxicity

Ecotoxicity: Harmful to aquatic life with long lasting effects.

fish toxicity:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Toluene 108-88-3	LC50 NOEC	Oncorhynchus kisutch	5.5 mg/L 1.39 mg/L	96 h 40 d	
Acetone 67-64-1	LC50	Oncorhynchus mykiss	5540 mg/L	96 h	

toxicity to crustacea:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Toluene 108-88-3	EC50	Cerodaphnia dubia	3.23 mg/L	48 h	
Acetone 67-64-1	EC50 NOEC	Daphnia pulex	8800 mg/L 2212 mg/L	48 h 28 d	

Algae Toxicity:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Toluene 108-88-3	EC50	Chlorella vulgaris	134 mg/L	72 h	
Acetone 67-64-1	NOEC	Prorocentrum minimum	430 mg/L	96 h	

Bacteria toxicity:

Chemical name	Parameters	Species	Effective dose	Exposure time	Method
Acetone 67-64-1	EC 12	activated sludge	1000 mg/L	30 min.	

12.2. Persistence and degradability

Persistence and degradability:

Chemical name	degradation rate	test duration	Rapidly biodegradable	Remarks	Method
Toluene 108-88-3	81 %	5 d	Yes		
Acetone 67-64-1	91 %	28 d	Yes	Aerobic biological treatment	

12.3. Bioaccumulative potential

Bioaccumulation:

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Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Toluene 108-88-3	2.73	90
Acetone 67-64-1	-0.24	0.69

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
Toluene 108-88-3	The substance is not PBT / vPvB
Acetone 67-64-1	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: 14 06 03* (other solvents and solvent mixtures)

SECTION 14: Transport information

14.1. UN number

ADR: UN1263
RID: UN1263
IMDG: UN1263
IATA: UN1263

14.2 UN proper shipping name

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ADR: PAINT RELATED MATERIAL
UN1263, PAINT RELATED MATERIAL, 3, II

RID: PAINT RELATED MATERIAL
UN1263, PAINT RELATED MATERIAL, 3, II

IMDG: PAINT RELATED MATERIAL
UN1263, PAINT RELATED MATERIAL, 3, II, (-14°C C.C.)

IATA: PAINT RELATED MATERIAL
UN1263, PAINT RELATED MATERIAL, 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) 5 L
Excepted quantity E2

RID: 3
Labels 3
Classification code F1

IMDG: 3
Hazard label(s) 3
Limited quantity (LQ) 5 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
IATA: No

14.6. Special precautions for user

ADR:

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Special Provisions: 163, 640C, 650, 367
RID:
Special Provisions: 163, 367, 640C, 650
IMDG:
Special Provisions: 163, 367
IATA:
Special Provisions: A3, A72, A192
ERG Code 3L

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

European Union:

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
Toluene 108-88-3		48. 75.
Acetone 67-64-1		3 40

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

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

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

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

volatile organic compounds (VOC) content:

acc. reg. 2010/75/EC (20°C): 100 %

acc. reg. 2004/42/EC (Decopaint): 100 %

648/2004/ EU (DetVo):

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≥ 30% aromatic hydrocarbons

National regulations:

Denmark:

Chemical name	Denmark - MAL
Toluene 108-88-3	74 m3/10 g substance MAL factor ≥10.0 % by weight [3]
Acetone 67-64-1	23 m3/10 g substance MAL factor >0 % by weight [1]

Germany:

Water hazard class (WGK): strongly hazardous to water (WGK 3) - Classification according to AwSV

Chemical name	WGK Classification (AwSV)	ID number
Toluene 108-88-3	3	194
Acetone 67-64-1	1	6

TA Luft (German Air Pollution Control Regulation):

org. substances (Ziffer 5.2.5):

45 - 50%

org. subst. (digit 5.2.5) class I:

50 - 55%

Storage class (TRGS 510): LGK13 - Non-combustible solids

France:

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

Chemical name	French RG number
Toluene 108-88-3	RG 4bis, RG 84
Acetone 67-64-1	RG 84

RG 4bis - Gastrointestinal conditions caused by benzene, toluene, xylenes, and any products containing them

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

Netherlands:

Chemical name	Toluene
Netherlands - List of Reproductive Toxins	Development Category 2

Water contaminating class (Netherlands):

C2

Austria:

Flammable Liquids Regulations, VbF

Flammable liquids Cat. 2

Poland:

Ordinance of the Minister of Family, Labor and Social Policy dated June 12, 2018 on the highest permissible concentrations

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and intensities of harmful factors for health in the work environment (Dz. U. 2018 item 1286, as amended)
Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21; as amended)
Act on chemical substances and their mixtures of February 25, 2011. (Journal of Laws No. 63, item 322; as amended)
Regulation of the Minister of Labor and Social Policy of September 26, 1997 on general regulations of safety and hygiene at work (Dz. U. of 2003, No. 169, item 1650; as amended).

Switzerland:

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

Hungary:

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

International Inventories:

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies
NZIoC	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
NZIoC - New Zealand Inventory of Chemicals
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing 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
H304 - May be fatal if swallowed and enters airways

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H315 - Causes skin irritation
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H361d - Suspected of damaging the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure
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 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
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

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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
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: 07-Jul-2023

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

Disclaimer:

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End of Safety Data Sheet