



SAFETY DATA SHEET

URETHAN

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Compilation date: 31.07.2016

Revision No: 1

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

1.1. Product identifier

Product name: URETHAN

Product code: 771.400.000

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

Use of substance / mixture: Lacquer

1.3. Details of the supplier of the safety data sheet

Company name: ECS Cleaning Solutions GmbH

Storkower Str. 113

D-10407 Berlin

Germany

Tel: +49 (0)30 / 36 46 40 36

Email: gunnar.kleinmann@ecsag.com

1.4. Emergency telephone number

Emergency tel: Germany: Intoxications Information Center; +49 761 19240

Switzerland: Swiss Toxicological Information Centre; +41 44 251 51 51

Austria: Intoxication information center; +43 1 406 43 43

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Flam. Aerosol 1: H222; Skin Sens. 1: H317; STOT SE 3: H336; Asp. Tox. 1: H304;
Aquatic Chronic 3: H412; -: H229; -: EUH066

Most important adverse effects: Extremely flammable aerosol. Pressurised container: May burst if heated. May cause an allergic skin reaction. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Harmful to aquatic life with long lasting effects. Repeated exposure may cause skin dryness or cracking.

2.2. Label elements

Label elements:

Hazard statements: H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated

H317: May cause an allergic skin reaction.

H336: May cause drowsiness or dizziness.

H304: May be fatal if swallowed and enters airways.

H412: Harmful to aquatic life with long lasting effects.

EUH066: Repeated exposure may cause skin dryness or cracking.

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Hazard pictograms: GHS02: Flame

GHS07: Exclamation mark



Signal words: Danger

Precautionary statements: P102: Keep out of reach of children.

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

P211: Do not spray on an open flame or other ignition source.

P251: Do not pierce or burn, even after use.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P362+364: Take off contaminated clothing and wash it before reuse.

P410+412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

P501: Dispose of contents/container to.

2.3. Other hazards

Other hazards: Buildup of explosive mixtures without sufficient ventilation.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

BUTANE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
203-448-7	106-97-8	Substance with a Community workplace exposure limit.	Flam. Gas 1: H220; Press. Gas: H280	40.000%

HYDROCARBONS, C9-C11, N-ALKANE, ISO ALKANE, CYCLISCHE VERBINDUNGEN, <2% AROMATEN - REACH registered number(s): 01-2119463258-33-XXXX

-	-	-	Flam. Liq. 3: H226; Asp. Tox. 1: H304; STOT SE 3: H336	23.000%
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PROPANE

200-827-9	74-98-6	Substance with a Community workplace exposure limit.	Flam. Gas 1: H220; Press. Gas: H280	15.000%
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KOHLLENWASSERSTOFFE, C6, ISOALKANE, <5%N-HEXAN - REACH registered number(s): 01-2119484651-34

931-254-9	-	-	Flam. Liq. 2: H225; Asp. Tox. 1: H304; Aquatic Chronic 2: H411; Skin Irrit. 2: H315; STOT SE 3: H336	5.000%
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ISOBUTANE

200-857-2	75-28-5	Substance with a Community workplace exposure limit.	Flam. Gas 1: H220; Press. Gas: H280	5.000%
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REACTION MASS OF: 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL - REACH registered number(s): 01-2119491304-40-XXXX

-	-	-	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Sens. 1A: H317	0.300%
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COBALTBIS(2-ETHYLHEXANOAT)

205-250-6	136-52-7	-	Repr. 2: H361f; Aquatic Acute 1: H400; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Sens. 1: H317; Aquatic Chronic 3: H412	0.300%
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Contains: aliphatic hydrocarbons >=30%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin.

Eye contact: Rinse opened eye for several minutes under running water.

Ingestion: If symptoms persist consult doctor.

Inhalation: Supply fresh air and to be sure call for a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: Causes skin irritation.

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

Ingestion: May be fatal if swallowed and enters airways.

Inhalation: May cause drowsiness or dizziness.

Delayed / immediate effects: Based on available data, the classification criteria are not met.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: No further relevant information available.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Carbon dioxide. Dry chemical powder. Water spray. Fight Larger fires with water spray or alcohol resistant foam.

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5.2. Special hazards arising from the substance or mixture

Exposure hazards: No further relevant information available.

5.3. Advice for fire-fighters

Advice for fire-fighters: Protective equipment: No special measures required. Additional information: Collect contaminated fire fighting water separately. It must not enter the sewage system.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear protective equipment. Keep unprotected persons away.

6.2. Environmental precautions

Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/surface or ground water.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

6.4. Reference to other sections

Reference to other sections: Safe handling: see section 7 Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure good ventilation/exhaustion at the workplace. Keep ignition sources away - Do not smoke. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use. Do not spray into a naked flame or any incandescent material.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Observe official regulations on storing packagings with pressurised containers. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use. Storage class: 2B

7.3. Specific end use(s)

Specific end use(s): No further relevant information available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

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Hazardous ingredients:

BUTANE

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1450 mg/m ³	1810 mg/m ³	-	-

PROPANE

UK	1800 mg/m ³	7200 mg/m ³	-	-
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ISOBUTANE

UK	2400 mg/m ³	9600 mg/m ³	-	-
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DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. Not necessary if room is well-ventillated.

Hand protection: Protective gloves. The glove material has be impermeable and resitant to the product / the substance / the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Material of gloves: Due to missing tests no recommendation to the glove material can be given for the product / the preparation / the chemical mixture. The selection of the suitable gloves does not only depend on the materail, but also on further marks of quality and varies from manufacturer to manufaturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Eye protection: Not required.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Aerosol

Colour: Red

Odour: Characteristic odour

Solubility in water: Not miscible or difficult to mix.

Boiling point/range°C: No data available.

Flammability limits %: lower: 1,5 Vol%

Flash point°C: -60°C

Vapour pressure: at 20°C: 8300hPa

pH: No data available.

Melting point/range°C: No data available.

upper: 10,9 Vol%

Autoflammability°C: >200°C

Relative density: No data available.

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VOC g/l: 77,9 %

9.2. Other information

Other information: Product is not selfigniting. Product is not explosive. However, formation of explosive air / vapour mixtures are possible. Density at 20°C: 0,88 g/cm³

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No further relevant information available.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: No dangerous reactions known.

10.4. Conditions to avoid

Conditions to avoid: No further relevant information available.

10.5. Incompatible materials

Materials to avoid: No further relevant information available.

10.6. Hazardous decomposition products

Haz. decomp. products: No dangerous decomposition products known.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

HYDROCARBONS, C9-C11, N-ALKANE, ISO ALKANE, CYCLISCHE VERBINDUNGEN, <2% AROMATEN

DERMAL	RBT	LD50	>5000	mg/kg
GASES	RAT	4H LC50	4951	mg/l
ORAL	RAT	LD50	>5000	mg/kg

KOHLLENWASSERSTOFFE, C6, ISOALKANE, <5%N-HEXAN

DERMAL	RAT	1H LC50	>3000	mg/kg
GASES	RAT	4H LC50	>20	mg/l
ORAL	RAT	LD50	>5000	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Respiratory/skin sensitisation	DRM	Hazardous: calculated

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STOT-single exposure	-	Hazardous: calculated
Aspiration hazard	-	Hazardous: calculated

Excluded hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	-	No hazard: calculated
Acute toxicity (ac. tox. 3)	-	No hazard: calculated
Acute toxicity (ac. tox. 2)	-	No hazard: calculated
Acute toxicity (ac. tox. 1)	-	No hazard: calculated
Skin corrosion/irritation	-	No hazard: calculated
Serious eye damage/irritation	-	No hazard: calculated
Germ cell mutagenicity	-	No hazard: calculated
Carcinogenicity	-	No hazard: calculated
Reproductive toxicity	-	No hazard: calculated
STOT-repeated exposure	-	No hazard: calculated

Symptoms / routes of exposure

Skin contact: Causes skin irritation.

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

Ingestion: May be fatal if swallowed and enters airways.

Inhalation: May cause drowsiness or dizziness.

Delayed / immediate effects: Based on available data, the classification criteria are not met.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

KOHLENWASSERSTOFFE, C6, ISOALKANE, <5%N-HEXAN

Daphnia magna	LC50/48h	3,87	mg/l
Oryzias latipes	LC50/48h	>1	mg/l

REACTION MASS OF: 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL

Daphnia magna	EC50/24	20	mg/l
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12.2. Persistence and degradability

Persistence and degradability: No further relevant information available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No further relevant information available.

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12.4. Mobility in soil

Mobility: No further relevant information available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Harmful to fish Water hazard class 2 (German Regulation) (Self-assessment):
hazardous for water Do not allow product to reach ground water, water course or
sewage system. Danger to drinking water if even small quantities leak into the ground.
Harmful to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Must not be disposed together with household garbage. Do not allow product to reach
sewage system.

Waste code number: 15 01 10

Disposal of packaging: 15 01 04 metallic packaging Recommendation: Disposal must be made according to
official regulations.

NB: The user's attention is drawn to the possible existence of regional or national
regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1950

14.2. UN proper shipping name

Shipping name: AEROSOLS

14.3. Transport hazard class(es)

Transport class: 2 (5F+Gass)

14.4. Packing group

Packing group: entfällt

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: Warning: Gases EMS Number: F-D,S-U Stowage Code: SW1, SW22 Segregation Code:
SG69

Tunnel code: D

Transport category: 2

IMDG seg. group: LQ: 1L; EQ: E0

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14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk: not applicable

Section 15: Regulatory information

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

Specific regulations: Directive 2012/18/EU Named dangerous substances - ANNEX 1 None of the ingredients is listed. Seveso category P3b Flammable Aerosols Qualifying quantity (tonnes) for application of lower-tier requirements 150 t. Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t. Regulation (EC) No 1907/2006 ANNEX XVII Conditions of restriction:28 29

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: EUH066: Repeated exposure may cause skin dryness or cracking.

H220: Extremely flammable gas.

H222: Extremely flammable aerosol.

H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour.

H229: Pressurised container: May burst if heated

H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H361f: Suspected of damaging fertility.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

