

URETHAN

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

1.1 - Product identifier

Trade name/designation URETHAN
Chemical name
Product-type Mixture
Product code 771.400.000
UFI: 9800-POUH-G00W-TD0E

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

Relevant identified uses - Polishing agent

1.3 - Details of the supplier of the safety data sheet

ECS Cleaning Solutions GmbH
Wolfener Str. 32-34
D-12681 Berlin Germany
Telephone : +49 (0)30 / 36 46 40 36

1.4 - Emergency telephone number

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 according to Regulation (EC) No 1272/2008 [CLP]

STOT SE 3 (H336)	STOT-single exposure - Category 3 (H336)
Aerosol 1	Aerosol - Category 1
Skin Irrit. 2	Irritation, Category 2
STOT RE 1	STOT-repeated exposure - Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Aquatic Chronic 2

2.2 - Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (CAS No.: 64742-48-9) | Hydrocarbons, C6, isoalkanes, <5% n-hexane (CAS No.:) | 1-methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate; bis(1,2,2,6,6-pentamethylpiperidin-4-yl) decanedioate (CAS No.: 1065336-91-5) | cobalt bis(2-ethylhexanoate) (CAS No.: 136-52-7)

Signal word : Danger

Hazard pictograms



Hazard statements

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H222	Extremely flammable aerosol
H229	Pressurised container: May burst if heated
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H372	Causes damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe fume/gas/mist/vapours/spray.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container to an appropriate recycling or disposal facility in accordance with local/national regulation.

EUH-phrases

EUH208	Contains 1-methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate; bis(1,2,2,6,6-pentamethylpiperidin-4-yl) decanedioate (1065336-91-5) cobalt bis(2-ethylhexanoate) (136-52-7) . May produce an allergic reaction
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2.3 - Other hazards

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No	%	Class(es)	Specific concentration limit
butane	CAS No. : 106-97-8 Index No. : 601-004-00-0 EC No. : 203-448-7	40	Flam. Gas 1 - H220 Press. Gas	Not applicable
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	CAS No. : 64742-48-9 Index No. : 649-327-00-6 EC No. : 265-150-3	23	Asp. Tox. 1 - H304 Flam. Liq. 3 - H226 STOT SE 3 (H336) - H336	Not applicable
propane	CAS No. : 74-98-6 Index No. : 601-003-00-5 EC No. : 200-827-9	15	Flam. Gas 1 - H220 Press. Gas	Not applicable
Hydrocarbons, C6, isoalkanes, <5% n-hexane	CAS No. : Index No. : EC No. : 931-254-9 REACH No. : 01-2119484651-34	5	Aquatic Chronic 2 - H411 Asp. Tox. 1 - H304 Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 (H336) - H336	Not applicable

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isobutane	CAS No. : 75-28-5 Index No. : 601-004-00-0 EC No. : 200-857-2	5	Flam. Gas 1 - H220 Press. Gas	Not applicable
Chemical name	No	%	Class(es)	Specific concentration limit
1-methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate; bis(1,2,2,6,6-pentamethylpiperidin-4-yl) decanedioate	CAS No. : 1065336-91-5 Index No. : EC No. : 915-687-0	0.3	Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Repr. 2 (H361f) - H361f Skin Sens. 1A - H317	Not applicable
cobalt bis(2-ethylhexanoate)	CAS No. : 136-52-7 Index No. : EC No. : 205-250-6	0.3	Aquatic Acute 1 - H400 Aquatic Chronic 3 - H412 Eye Irrit. 2 - H319 Repr. 1B (H360F) - H360F Skin Sens. 1A - H317	Not applicable

SECTION 4: First aid measures

4.1 - Description of first aid measures

Following inhalation

- No special measures are necessary.
- Provide fresh air.

Following skin contact

- After contact with skin, wash immediately with plenty of water and soap.
- In case of skin reactions, consult a physician.

After eye contact

- Rinse immediately carefully and thoroughly with eye-bath or water.
- In case of eye irritation consult an ophthalmologist.

After ingestion

- Rinse mouth thoroughly with water.
- Do NOT induce vomiting.

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

Symptoms and effects - Following inhalation

- No information available.

Symptoms and effects - Following skin contact

- Causes skin irritation.

Symptoms and effects - After eye contact

- No information available.

Symptoms and effects - After ingestion

- No information available.

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

- Treat symptomatically.

SECTION 5: Firefighting measures

5.1 - Extinguishing media

Suitable extinguishing media

- ABC-powder
- Carbon dioxide (CO₂)
- Foam
- Extinguishing powder

Unsuitable extinguishing media

- Full water jet

5.2 - Special hazards arising from the substance or mixture

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Special hazards arising from the substance or mixture - No information available.

5.3 - Advice for firefighters

- Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel - Use personal protection equipment.

For emergency responders - No information available.

6.2 - Environmental precautions

- No information available.

6.3 - Methods and material for containment and cleaning up

Methods and material for containment - No information available.

Methods and material for cleaning up - Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
- Wash with plenty of water.

Inappropriate techniques - No information available.

6.4 - Reference to other sections

- Disposal: see section 13

- Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation - Avoid: Skin contact
- It is recommended to design all work processes always so that the following is excluded: Skin contact

Advices on general occupational hygiene - No information available.

7.2 - Conditions for safe storage, including any incompatibilities

- No information available.

7.3 - Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

butane (106-97-8)

IOELV TWA mg/m ³ (UE)	1450 mg/m ³
IOELV TWA ppm (UE)	600 ppm

DNEL / PNEC

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Hydrocarbons, C6, isoalkanes, <5% n-hexane			
Type	Value	User	Effect
DNEL long-term oral (repeated)	1301 mg/kg bw/day	Consumers	Systemic
DNEL long-term inhalative	5306 mg/m3	Workers	Systemic
DNEL long-term inhalative	1131 mg/m3	Consumers	Systemic
DNEL long-term dermal	1377 mg/kg bw/day	Consumers	Systemic

8.2 - Exposure controls

Appropriate engineering controls - No information available.

Individual protection measures, such as personal protective equipment - For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
- Tested protective gloves must be worn



SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	Liquid	<u>Appearance</u>	Aerosol
<u>Colour</u>	red	<u>Odour</u>	characteristic
Odour threshold		No data available	
pH		No data available	
Melting point		No data available	
Freezing point		No data available	
Boiling point		No data available	
Flash point		-60 °C	
Evaporation rate		No data available	
flammability		No data available	
Lower explosion limit		1.5 % Vol.	
Upper explosion limit		10.9 % Vol.	
Vapour pressure		8300 hPa	
Vapour density		No data available	
Relative density		No data available	
Density		0.88 g/cm3	
Solubility (Water)		No data available	
Solubility (Ethanol)		No data available	
Solubility (Acetone)		No data available	
Solubility (Organic solvents)		No data available	
Log KOC		No data available	
Auto-ignition temperature		> 200 °C	
Decomposition temperature		No data available	
Kinematic viscosity		No data available	
Dynamic viscosity		No data available	

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Particle characteristics

Particle size	No data available
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9.2 - Other information

VOC content	No data available
Minimum ignition energy	No data available
Conductivity	No data available

SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- No information available.

10.5 - Incompatible materials

- No information available.

10.6 - Hazardous decomposition products

- Does not decompose when used for intended uses.

SECTION 11: Toxicological information

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

Acute toxicity - Not classified

Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

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

Toxicity : Substances

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-48-9)	
LD50 oral (rat)	> 5000 mg/kg
LD50 dermal (rabbit)	> 5000 mg/kg
LC50 inhalation vapours (rat)	> 5000 mg/l

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Hydrocarbons, C6, isoalkanes, <5% n-hexane ()	
LD50 oral (rat)	> 16750 mg/kg
LD50 dermal (rabbit)	> 3350 mg/kg
cobalt bis(2-ethylhexanoate) (136-52-7)	
LD50 oral (rat)	3129 mg/kg

<u>Skin corrosion/irritation</u>	- Irritation, Category 2 - Causes skin irritation
<u>Serious eye damage/eye irritation</u>	- Not classified
<u>Respiratory or skin sensitisation</u>	- Not classified
	- May cause sensitization by skin contact. - May cause an allergic skin reaction.
<u>Germ cell mutagenicity</u>	- Not classified
<u>Carcinogenicity</u>	- Not classified
<u>Reproductive toxicity</u>	- Not classified
<u>STOT-single exposure</u>	- STOT-single exposure - Category 3 (H336) - May cause drowsiness or dizziness
<u>STOT-repeated exposure</u>	- STOT-repeated exposure - Category 1 - Causes damage to organs <[LML=LISTORGAN]><[EXP= or state all organs affected, if known]> through prolonged or repeated exposure <[FTB=1]><[EXP= state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]>
<u>Aspiration hazard</u>	- Not classified

11.2 - Information on other hazards

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

Toxicity : Substances

Hydrocarbons, C6, isoalkanes, <5% n-hexane ()	
LC50 96 hr fish	18.27 mg/l
ErC50 algae	13.56 mg/l

- Harmful to aquatic life with long lasting effects.

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12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No indication of bioaccumulation potential.

12.4 - Mobility in soil

- No information available.

12.5 - Results of PBT and vPvB assessment

12.6 - Endocrine disrupting properties

12.7 - Other adverse effects

- No information available.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

<u>Waste treatment methods</u>	- Dispose of waste according to applicable legislation.
<u>Sewage disposal</u>	- No information available.
<u>Special precautions for waste treatment</u>	- No information available.
<u>Community or national or regional provisions</u>	- No information available.

SECTION 14: Transport information

14.1 - UN number or ID number

<u>UN number (ADR)</u>	:	UN1950
<u>UN number (RID)</u>	:	UN1950
<u>UN number (ADN)</u>	:	Not applicable
<u>UN number (IMDG)</u>	:	Not applicable
<u>UN number (IATA)</u>	:	Not applicable

14.2 - UN proper shipping name

<u>UN proper shipping name (ADR)</u>	:	AEROSOLS
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UN proper shipping name (RID) : AEROSOLS

14.3 - Transport hazard class(es)

ADR Transport hazard class(es) : 2

ADR Classification code: : 5F

Pictograms



Transport hazard class(es) (RID) : 2

Pictograms



14.4 - Packing group

Packing group :

Packing group (RID) :

14.5 - Environmental hazards

Environmental hazards : Yes.

Marine pollutant : Hazardous to the aquatic environment - Aquatic Chronic 2

14.6 - Special precautions for user

ADR

ADR Classification code: : 5F
ADR Special provisions : 190+327+344+625
ADR Limited quantity (LQ) : 1L
ADR Excepted quantities : E0
ADR Packing instructions : P207 LP200
ADR Special packing provisions : PP87 RR6 L2
ADR Mixed packing provisions : MP9
Instructions for portable tanks and bulk containers :
Special provisions for portable tanks and bulk containers :
ADR tank code :
ADR tanks special provisions :
Vehicle for tank carriage :
ADR Transport category : 2
ADR Tunnel restriction code : D
ADR Special provisions loading, unloading and handling : CV9 CV12
Special provisions - Packages : V14

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Special provisions - Bulk :
Special provisions - Operation : S2
ADR Hazard identification number (Kemler No.) :

RID

Special provisions :
Limited quantity (LQ) :
Excepted quantities :

14.7 - Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

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

Substances REACH candidates None

Substances Annex XIV None

Substances Annex XVII None

VOC content No data available

15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - No information available.

SECTION 16: Other information

SDS versions

Version	Issue date	Author	Description of the amendments
1	6/29/2022		

Texts of the regulatory sentences

Aerosol 1	Aerosol - Category 1
Aquatic Acute 1	Hazardous to the aquatic environment - Aquatic Acute 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Aquatic Chronic 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Aquatic Chronic 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Aquatic Chronic 3
Asp. Tox. 1	Aspiration hazard - Category 1
Eye Irrit. 2	Eye irritation - Category 2
Flam. Gas 1	Flammable gas. - Category 1
Flam. Liq. 2	Flammable liquid and vapour. - Category 2
Flam. Liq. 3	Flammable liquid and vapour. - Category 3
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
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation

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H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H360F	May damage fertility
H372	Causes damage to organs through prolonged or repeated
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
Press. Gas	Gases under pressure
Repr. 1B (H360F)	Reproductive toxicity - Category 1B (H360F)
Repr. 2 (H361f)	Reproductive toxicity - Category 2 (H361f)
Skin Irrit. 2	Irritation, Category 2
Skin Sens. 1A	Skin sensitization - Category 1A
STOT RE 1	STOT-repeated exposure - Category 1
STOT SE 3 (H336)	STOT-single exposure - Category 3 (H336)

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