

Ramsauer GmbH & Co KG  
5350 Strobl / Wolfgangsee

Date printed 28.02.2025, Revision 28.02.2025

Version 7.0. Supersedes version: 6.0

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

### 1.1 Product identifier

**828 Grund Reiniger Spray**

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

#### 1.2.1 Relevant uses

Cleaning agent

#### 1.2.2 Uses advised against

None known.

### 1.3 Details of the supplier of the safety data sheet

#### Company

Ramsauer GmbH & Co KG  
Alte Bundesstraße 147  
5350 Strobl / Wolfgangsee / AUSTRIA  
Phone +43 (0)6135 8205 0  
Fax +43 (0)6135 8205-250  
Homepage [www.ramsauer.eu](http://www.ramsauer.eu)  
E-mail [office@ramsauer.eu](mailto:office@ramsauer.eu)

#### Address enquiries to

#### Technical information

[office@ramsauer.at](mailto:office@ramsauer.at)

#### Safety Data Sheet

[sdb@chemiebuero.de](mailto:sdb@chemiebuero.de) (No dispatch of safety data sheets)  
Safety data sheets are available from the supplier.

### 1.4 Emergency telephone number

#### Company

+43 (0)6135 8205 0

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Aerosol 1: H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated.

Eye Irrit. 2: H319 Causes serious eye irritation.

STOT SE 3: H336 May cause drowsiness or dizziness.

### 2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

#### Hazard pictograms



#### Signal word

DANGER

#### Contains:

Propan-2-ol

#### Hazard statements

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

#### Precautionary statements

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.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F.  
P261 Avoid breathing vapours / spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear eye protection / face protection.

#### Cleaner, 648/2004/CE, contains:

>=30% aliphatic hydrocarbons (propellant)

### 2.3 Other hazards

#### Environmental hazards

Does not contain any PBT or vPvB substances.  
Contains no ingredients with endocrine-disrupting properties.

#### Other hazards

Further hazards were not determined with the current level of knowledge.

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### SECTION 3: Composition / Information on ingredients

#### 3.1 Substances

not applicable

#### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
60 - <80	Propan-2-ol CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336
10 - 25	iso-Butane CAS: 75-28-5, EINECS/ELINCS: 200-857-2, EU-INDEX: 601-004-00-0, Reg-No.: 01-2119485395-27-XXXX GHS/CLP: Flam. Gas 1A: H220 - Press. Gas: H280
2,5 - 10	Propane CAS: 74-98-6, EINECS/ELINCS: 200-827-9, EU-INDEX: 601-003-00-5, Reg-No.: 01-2119486944-21-XXXX GHS/CLP: Flam. Gas 1A: H220 - Press. Gas: H280

Comment on component parts

For full text of H-statements: see SECTION 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General information

Take off contaminated clothing and wash before reuse.

##### Inhalation

Ensure supply of fresh air.  
In the event of symptoms seek medical treatment.

##### Skin contact

In case of contact with skin wash off immediately with soap and water.  
Consult a doctor if skin irritation persists.

##### Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

##### Ingestion

Seek medical advice immediately.  
Rinse out mouth and give plenty of water to drink.  
Do not induce vomiting.

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

Headache  
Nausea, vomiting.

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

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Carbon dioxide.  
Water spray jet.  
Dry powder.  
Alcohol-resistant foam.

##### Extinguishing media that must not be used

Full water jet.

#### 5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:  
Carbon monoxide (CO)  
Bursting aerosols can be forcibly projected from a fire.

#### 5.3 Advice for firefighters

Use self-contained breathing apparatus.  
Cool containers at risk with water spray jet.  
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.  
Ensure adequate ventilation.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

### 6.3 Methods and material for containment and cleaning up

Take up mechanically.  
Take up residues with absorbent material (f.ex. diatomaceous earth).  
Dispose of absorbed material in accordance within the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Use only in well-ventilated areas.  
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.  
Vapours/spray can form an explosive mixture with air.  
Take precautionary measures against static discharges.  
Do not eat, drink, smoke or take drugs at work.  
Wash hands before breaks and after work.  
Use barrier skin cream.  
Take off contaminated clothing and wash before reuse.

### 7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.  
Prevent penetration into the ground.  
Do not store together with oxidizing agents.  
Keep container in a well-ventilated place.  
Keep in a cool place, heat causes increase in pressure and risk of bursting.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C.

Storage class (TRGS 510)

Storage class 2B (VCI)

### 7.3 Specific end use(s)

See product use, SECTION 1.2

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## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

#### Ingredients with occupational exposure limits to be monitored DE (TRGS 900)

Substance
Propan-2-ol
CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX
Exposure limit: 200 ppm, 500 mg/m <sup>3</sup> , Y, DFG
Factor: 2 (II)
Butane
CAS: 106-97-8, EINECS/ELINCS: 203-448-7, EU-INDEX: 601-004-00-0, Reg-No.: 01-2119474691-32-XXXX
Exposure limit: 1000 ppm, 2400 mg/m <sup>3</sup> , DFG
Factor: 4(II)
Propane
CAS: 74-98-6, EINECS/ELINCS: 200-827-9, EU-INDEX: 601-003-00-5, Reg-No.: 01-2119486944-21-XXXX
Exposure limit: 1000 ppm, 1800 mg/m <sup>3</sup> , DFG
Factor: 4(II)

#### Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

#### DNEL

Substance
iso-Butane, CAS: 75-28-5
There are no DNEL values established for the substance.
Propane, CAS: 74-98-6
There are no DNEL values established for the substance.
Propan-2-ol, CAS: 67-63-0
Industrial, inhalative (vapor), Acute - systemic effects, 1,000mg/m <sup>3</sup>
Industrial, inhalative (vapor), Long-term - systemic effects, 500 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 888 mg/kg bw/day
general population, inhalative (vapor), Long-term - systemic effects, 89 mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 319 mg/kg bw/day
general population, oral, Long-term - systemic effects, 26 mg/kg

#### PNEC

Substance
iso-Butane, CAS: 75-28-5
There are no PNEC values established for the substance.
Propane, CAS: 74-98-6
There are no PNEC values established for the substance.
Propan-2-ol, CAS: 67-63-0
There are no PNEC values established for the substance.

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## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	0,7 mm; Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	light protective clothing
<b>Other</b>	Do not breathe vapour/spray. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, filter AX (DIN EN 14387).
<b>Thermal hazards</b>	not applicable
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	liquid
<b>Form</b>	aerosol
<b>Color</b>	colourless
<b>Odor</b>	alcoholic
<b>Odour threshold</b>	not determined
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not applicable
<b>Boiling point or initial boiling point and boiling range [°C]</b>	not determined
<b>Flash point [°C]</b>	not determined
<b>Flammability</b>	not determined
<b>Lower explosion limit</b>	1,5 Vol.%
<b>Upper explosion limit</b>	10,9 Vol.%
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	not determined
<b>Density [g/cm<sup>3</sup>]</b>	0,786 (20 °C) (Liquid)
<b>Relative density</b>	not determined
<b>Bulk density [kg/m<sup>3</sup>]</b>	not applicable
<b>Solubility in water</b>	miscible
<b>Solubility other solvents</b>	No information available.
<b>Partition coefficient n-octanol/water (log value)</b>	not determined
<b>Kinematic viscosity</b>	not determined
<b>Relative vapour density</b>	not determined
<b>Melting point [°C]</b>	not determined
<b>Auto-ignition temperature [°C]</b>	not determined
<b>Decomposition temperature [°C]</b>	not applicable
<b>Particle characteristics</b>	not applicable

### 9.2 Other information

695 g/L (100 %) Solvent content

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See SECTION 10.3.

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#### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

#### 10.3 Possibility of hazardous reactions

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.  
Reactions with strong oxidizing agents.

#### 10.4 Conditions to avoid

Strong heating.

#### 10.5 Incompatible materials

See SECTION 7

#### 10.6 Hazardous decomposition products

Flammable gases/vapours.

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## SECTION 11: Toxicological information

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

#### Acute oral toxicity

Product
oral, Based on the available information, the classification criteria are not fulfilled.
Substance
Propan-2-ol, CAS: 67-63-0
LD50, oral, Rat, 5840 mg/kg

#### Acute dermal toxicity

Product
dermal, Based on the available information, the classification criteria are not fulfilled.
Substance
Propan-2-ol, CAS: 67-63-0
LD50, dermal, Rabbit, 13900 mg/kg

#### Acute inhalational toxicity

Product
inhalative, Based on the available information, the classification criteria are not fulfilled.
Substance
iso-Butane, CAS: 75-28-5
LC50, inhalative, mouse, 1237 mg/l (2h) (Lit.)
Propane, CAS: 74-98-6
LC50, inhalative, Rat, > 1443 mg/l (15 min) (Lit.)
Propan-2-ol, CAS: 67-63-0
LC50, inhalative, Rat, 25 mg/L

#### Serious eye damage/irritation

Irritant  
Based on the available information, the classification criteria are fulfilled.  
Calculation method

Substance
iso-Butane, CAS: 75-28-5
Eye, non-irritating
Propane, CAS: 74-98-6
Eye, non-irritating
Propan-2-ol, CAS: 67-63-0
Eye, Rabbit, Study, irritant

#### Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance
iso-Butane, CAS: 75-28-5
dermal, non-irritating
Propane, CAS: 74-98-6
dermal, non-irritating
Propan-2-ol, CAS: 67-63-0
dermal, Rabbit, non-irritating

#### Respiratory or skin sensitisation

Based on the available information, the classification criteria are not fulfilled.

Substance
iso-Butane, CAS: 75-28-5

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dermal, non-sensitizing
inhalative, non-sensitizing
Propane, CAS: 74-98-6
dermal, non-sensitizing
inhalative, non-sensitizing
Propan-2-ol, CAS: 67-63-0
dermal, Guinea pig, OECD 406, non-sensitizing

**Specific target organ toxicity — single exposure** — Vapours may cause drowsiness and dizziness.  
Based on the available information, the classification criteria are fulfilled.  
Calculation method

Substance
iso-Butane, CAS: 75-28-5
inhalative, non-irritating
Propane, CAS: 74-98-6
inhalative, non-irritating

**Specific target organ toxicity — repeated exposure** — Based on the available information, the classification criteria are not fulfilled.

Substance
iso-Butane, CAS: 75-28-5
NOAEC, inhalative, Rat, 4437 mg/m <sup>3</sup> , The effects observed are not sufficient for classification.
Propan-2-ol, CAS: 67-63-0
NOAEC, inhalative, Rat, 12500 mg/m <sup>3</sup> , OECD 451, negativ

**Mutagenicity** — Based on the available information, the classification criteria are not fulfilled.

Substance
Propan-2-ol, CAS: 67-63-0
in vitro, OECD 471, negativ
intraperitoneal, mouse, OECD 474, negativ

**Reproduction toxicity** — Based on the available information, the classification criteria are not fulfilled.

**- Fertility**

Substance
Propan-2-ol, CAS: 67-63-0
NOAEL, oral, Rat, 100 mg/kg bw/day, OECD 416, no adverse effect observed

**- Development**

Substance
Propan-2-ol, CAS: 67-63-0
NOAEC, oral, Rat, 400 mg/kg bw/day, OECD 414, no adverse effect observed, Effect on developmental toxicity,

**Carcinogenicity** — Based on the available information, the classification criteria are not fulfilled.

Substance
Propan-2-ol, CAS: 67-63-0
NOAEL, inhalative, Rat, 5000 ppm, OECD 451, adverse effect observed

**Aspiration hazard** — Based on the available information, the classification criteria are not fulfilled.

**General remarks**

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. Toxicological data of complete product are not available.



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## 11.2 Information on other hazards

11.2.1 Endocrine disrupting properties Contains no ingredients with endocrine-disrupting properties.

11.2.2 Other information none

## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
iso-Butane, CAS: 75-28-5
LC50, (96h), Fish, 7,71 - 19,37 mg/L
Propan-2-ol, CAS: 67-63-0
LC50, (96h), Pimephales promelas, 10,000 mg/L, OECD 203
LC50, (24h), Daphnia magna, >10,000 mg/L, OECD 202

### 12.2 Persistence and degradability

Behaviour in environment compartments not determined

Behaviour in sewage plant not determined

Biological degradability The product is biodegradable.

Substance
Propan-2-ol, CAS: 67-63-0
(21d), 95%, The product is readily biodegradable.

### 12.3 Bioaccumulative potential

not determined

Substance
Propan-2-ol, CAS: 67-63-0
log Pow, 0,05, OECD 107

### 12.4 Mobility in soil

not applicable

### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

### 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

### 12.7 Other adverse effects

Ecological data of complete product are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

##### Product

Dispose of as hazardous waste.

##### Waste no. (recommended)

160504\* gases in pressure containers (including halons) containing dangerous substances

##### Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Dispose full / partially emptied cartridges as hazardous waste in accordance with official regulations.

##### Waste no. (recommended)

150110\* packaging containing residues of or contaminated by hazardous substances  
150104

### SECTION 14: Transport information

#### 14.1 UN number or ID number

Transport by land according to ADR/RID 1950

Inland navigation (ADN) 1950

Marine transport in accordance with IMDG 1950

Air transport in accordance with IATA 1950

#### 14.2 UN proper shipping name

Transport by land according to ADR/RID Aerosols

- Classification Code 5F

- Label



- ADR LQ 1 I

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 2 (D)

Inland navigation (ADN) Aerosols

- Classification Code 5F

- Label



Marine transport in accordance with IMDG Aerosols

- EMS F-D, S-U

- Label



- IMDG LQ 1 I

Air transport in accordance with IATA Aerosols, flammable

- Label



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#### 14.3 Transport hazard class(es)

Transport by land according to ADR/RID 2

Inland navigation (ADN) 2

Marine transport in accordance with IMDG 2.1

Air transport in accordance with IATA 2.1

#### 14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

#### 14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 14.7 Maritime transport in bulk according to IMO instruments

not determined

## SECTION 15: Regulatory information

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

<b>EEC-REGULATIONS</b>	2008/98/EG (2000/532/EC ); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707
- Comment on component parts	Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
- Annex XIV (REACH)	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances $\geq 0.1\%$ that are subject to authorisation.
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains $\geq 0.1\%$ of substances with the following restrictions. 40, 75 According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the following restrictions. 3
<b>TRANSPORT-REGULATIONS</b>	ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025)
<b>NATIONAL REGULATIONS (DE):</b>	Hazardous Substances Ordinance - GefStoffV 21.07.2021; Detergent and Cleaning Agents Act - WRMG; Federal Water Act - WHG; Technical Rule for Hazardous Substances - TRGS: 200, 220, 615, 900, 905.
- Water hazard class	1, conf. AwSV, 18.04.2017
- Decree for case of interference, observe limits	yes
- Class. according to TA-Luft	5.2.5.
- Storage class (TRGS 510)	Storage class 2B (VCI)
- Observe employment restrictions for people	Observe employment restrictions for young people.
- VOC (2010/75/CE)	100 %
- Other regulations	DGUV Information 213-072: Lösemittel (Merkblatt M 017 der Reihe "Gefahrstoffe") DGUV Information 213-070: Säuren und Laugen (Merkblatt M 004 der Reihe „Gefahrstoffe“) TRGS 401: Gefährdung durch Hautkontakt. - Ermittlung, Beurteilung, Maßnahmen. TRGS 727: Vermeidung von Zündgefahren infolge elektrostatischer Aufladungen. TRGS 510: Storage of hazardous substances in non-stationary containers

### 15.2 Chemical safety assessment

not applicable

## SECTION 16: Other information

### 16.1 Hazard statements (SECTION 3)

H280 Contains gas under pressure; may explode if heated.  
H220 Extremely flammable gas.

H336 May cause drowsiness or dizziness.  
H319 Causes serious eye irritation.  
H225 Highly flammable liquid and vapour.

## 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ATE = acute toxicity estimate  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
EL50 = Median effective loading  
ELINCS = European List of Notified Chemical Substances  
EmS = Emergency Schedules  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
IVIS = In vitro irritation score  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
LC0 = lethal concentration, 0%  
LOAEL = lowest-observed-adverse-effect level  
LL50 = Median lethal loading  
LQ = Limited Quantities  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
STP = Sewage Treatment Plant  
TLV@TWA = Threshold limit value – time-weighted average  
TLV@STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

## 16.3 Other information

### Classification procedure

Aerosol 1: H222 Extremely flammable aerosol. (Bridging principle "Aerosols") H229 Pressurised container: May burst if heated. (Bridging principle "Aerosols")  
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)  
STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)

### Modified position

11.2, 12.6

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