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

1.1. Product identifier:

Trade name: **POWER CLEANER**  
Product code: **R 50202 (spray)**

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

Uses of the mixture: Universal cleaner.  
Sector of use category (SU):  
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites  
Process category (PROC):  
PROC7 Industrial spraying  
PROC11 Non industrial spraying  
Uses advised against: Not known.

1.3. Details of the supplier of the safety data sheet:

Identification of manufacturer/Supplier:  
RETECH, s.r.o.  
Vackova 1541/4  
150 00 Praha 5 - Stodůlky  
Czech Republic  
Telephone number/Fax: +420 327 596 128, +420 327 596 428  
E-mail: info@retech.cz

1.4. Emergency telephone number: RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic  
Telephone number: +420 327 596 128 (7.30-16.00 hour)  
Toxikologické informační středisko (Toxicology Information Centre),  
Na bojišti 1, 128 08 PRAHA 2, Czech Republic  
Telephone number: +420 224 919 293, +420 224 915 402 (24 hours a day)

**2.\* Section 2. Hazard identification:**

2.1. Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 [CLP]:  
Aerosol 1 H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
Acute Tox. 4 H332 Harmful if inhaled.  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2 H319 Causes serious eye irritation.  
STOT SE 3 H336 May cause drowsiness or dizziness.  
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.  
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements:

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



Signal Word: Danger

Hazard Statements:

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H304 May be fatal if swallowed and enters airways.  
H412 Harmful to aquatic life with long lasting effects.

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**Precautionary Statements:**

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P251 Do not pierce or burn, even after use.
- P211 Do not spray on an open flame or other ignition source.
- P273 Avoid release to the environment.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P331 Do NOT induce vomiting.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
- P403 Store in a well-ventilated place.
- P501 Dispose of contents/container in accordance with national regulation.

**Contained dangerous substances:**

1330-20-7 xylene (mixed isomers); 64742-49-0 naphtha (petroleum), hydrotreated light;  
111-76-2 2-butoxyethanol; 78-93-3 butanone

**Regulation (EC) No 648/2004:**

aliphatic hydrocarbons ≥ 30 %; aromatic hydrocarbons 15 - 30 %

2.3. Other hazards:

Results of PBT and vPvB assessment:

PBT: Not applicable  
vPvB: Not applicable

**3.\* Section 3. Composition/information on ingredients:**

3.2. Mixtures:

Description of the mixture: Mixture of active ingredients with propellant

Hazardous ingredients:

CAS: 1330-20-7 EINECS: 215-535-7 Reg. No.: 01-2119488216-32	Xylene (mixture of isomers) Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	25 -< 50 %
CAS: 78-93-3 EINECS: 201-159-0 Reg. No.: 01-2119457290-43	Butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	20 -< 25 %
CAS: 64742-49-0 EINECS: 265-151-9 Reg. No.: 01-2119473851-33	Naphtha (petroleum), hydrotreated light (contains < 0,1 % benzene) Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	15 -< 20 %
CAS: 67-63-0 EINECS: 200-661-7 Reg. No.: 01-2119457558-25	Propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	15 -< 20 %
CAS: 74-98-6 EINECS: 200-827-9 Reg. No.: 01-2119486944-21	Propane Flam. Gas 1, H220; Press. Gas, H280	10 -< 25 %
CAS: 111-76-2 EINECS: 203-905-0	2-Butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	1,0 -< 2,5 %

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

**Regulation (EC) No 648/2004:**

aliphatic hydrocarbons ≥ 30 %;

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aromatic hydrocarbons 15 – 30 %

#### 4. Section 4. First aid measures:

##### 4.1. Description of first aid measures:

General notes: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation: Supply fresh air.  
If required, provide artificial respiration.  
Keep patient warm.  
Get medical attention if any discomfort continues.  
In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Remove contact lenses, if present and easy to do.  
Rinse cautiously with water for several minutes.  
Get medical attention if any discomfort continues.

After swallowing: Do not induce vomiting.  
Immediately call a doctor.

4.2. Most important symptoms and effects, both acute and delayed:  
No further relevant information available.

4.3. Indication of any immediate medical attention and special treatment needed:  
No further relevant information available.

#### 5. Section 5. Firefighting measures:

##### 5.1. Extinguishing media:

Suitable extinguishing agents: Carbon dioxide (CO<sub>2</sub>), fire-extinguishing powder, water haze, alcohol-resistant foam.

Unsuitable extinguishing agents: Water with full jet.

5.2. Special hazards arising from the substance or mixture:  
No further relevant information available.

5.3. Advice for firefighters: Wear protective clothing and self-contained breathing apparatus.

#### 6. Section 6. Accidental release measures:

6.1. Personal precautions, protective equipment and emergency procedures:  
Wear protective equipment see Section 8.  
Keep unprotected persons away.  
Ensure adequate ventilation.

6.2. Environmental precautions: Do not allow to enter sewage system, surface or ground water.  
Inform respective authorities in case of seepage into water course or sewage system.

6.3. Methods and material for containment and cleaning up:  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents.  
Dispose contaminated material as waste according to Section 13.

6.4. Reference to other sections: See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

#### 7. Section 7. Handling and storage:

##### 7.1. Precautions for safe handling:

Protective measures: Wear protective equipment see Section 8.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.

Measures to prevent fire: Do not spray onto a naked flame or any incandescent material.  
Keep ignition sources away. Do not smoke.  
Protect against electrostatic charges.

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Pressurized 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.

7.2. Conditions for safe storage, including any incompatibilities:

Requirements for storage rooms and vessels:

Store in a cool place.

Observe official regulations on storing packagings with pressurized containers.

Technical measures and storage conditions:

Observe official regulations on storing packagings with pressurized containers.

Further information on storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

7.3. Specific end use(s):

No further relevant information available.

**8.\* Section 8. Exposure controls/personal protection:**

8.1. Control parameters:

Components with limit values that require monitoring at the workplace:

WEL (United Kingdom): EH40/2005

CAS	Substance	Long-term (8-hr TWA ref. period)		Short-term (15 minute ref. period)		Comments
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
1330-20-7	Xylene, o-, m-, p- or mixed isomers	50	220	100	441	Skin, BMGV
78-93-3	Butanone	200	600	300	899	Skin, BMGV
111-76-2	2-Butoxyethanol	25	123	50	246	Skin, BMGV

OEL: 2000/39/EG, 2006/15/EG, 2009/161/EG

CAS	Name of agent	Eight hours		Short-term		Notation
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
1330-20-7	Xylene, mixed isomers, pure	50	221	100	442	Skin
78-93-3	Butanone	200	600	300	900	
111-76-2	2-Butoxyethanol	20	98	50	246	Skin

Additional Occupational Exposure Limit Values for possible hazards during processing:

100-41-4	Ethylbenzene	100	442	200	884	Skin
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Biological limit values:

BMGV (United Kingdom): EH40/2005

CAS	Substance	BMGV	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	650 mmol methyl hippuric acid/mol creatinine in urine	Post shift

DNEL:

78-93-3 Butanone

Inhalation	Chronic effects systemic	600 mg/m <sup>3</sup>	Workers
	Chronic effects systemic	106 mg/m <sup>3</sup>	Consumers
Dermal	Chronic effects systemic	1161 mg/kg Body weight/day	Workers
	Chronic effects systemic	412 mg/kg Body weight/day	Consumers
Oral	Chronic effects systemic	31 mg/kg Body weight/day	Consumers

64742-49-0 Naphtha (petroleum), hydrotreated light

Inhalation	Chronic effects systemic	2035 mg/m <sup>3</sup>	Workers
	Chronic effects systemic	608 mg/m <sup>3</sup>	Consumers
Dermal	Chronic effects systemic	773 mg/kg Body weight/day	Workers
	Chronic effects systemic	699 mg/kg Body weight/day	Consumers
Oral	Chronic effects systemic	699 mg/kg Body weight/day	Consumers

67-63-0 Propan-2-ol

Inhalation	Chronic effects systemic	500 mg/m <sup>3</sup>	Workers
	Chronic effects systemic	89 mg/m <sup>3</sup>	Consumers

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Dermal	Chronic effects systemic	888 mg/kg Body weight/day	Workers
	Chronic effects systemic	319 mg/kg Body weight/day	Consumers
Oral	Chronic effects systemic	26 mg/kg Body weight/day	Consumers

Additional information: The lists that were valid during the compilation were as basis.

### 8.2. Exposure controls:

Technical measures to prevent exposure:

Ensure good ventilation/exhaustion at the workplace.

General protective measures:

Store away from foodstuffs, beverages and feed.

Take off immediately all contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid breathing vapours/spray.

Avoid skin and eye contact.

Personal protection equipment:

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

In case of brief exposure or low pollution use respiratory filter device.

Filter, type AX/P2

In case of intensive or longer exposure use self-contained respiratory protective device.

Eye protection:

Tightly sealed goggles

Hand protection:

Protective gloves.

The glove material must be impermeable and resistant against the product/ substance/ preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Solvent resistant gloves.

The final selection of the glove material must be carried out on the basis of penetration times, permeation rates and degradation.

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Skin protection:

Protective suit.

## 9. Section 9. Physical and chemical properties:

### 9.1. Information on basic physical and chemical properties:

Form: Aerosol.

Colour: Transparent.

Odour: Characteristic.

Odour threshold: Not determined.

Value pH at 20 °C: Not determined.

Melting point/freezing point: Not determined.

Initial boiling point/boiling range: -44 °C

Flash point: -97 °C

Evaporation rate: Not determined.

Flammability (solid, gas): Not determined.

Explosive properties: The product is not explosive. However, formation of explosive air/steam mixtures is possible.

Explosive limits:

– lower: 0.7 vol. %

– upper: 12.0 vol. %

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Vapour pressure at 20 °C: 5 Bar  
 Vapour density at 20 °C: Not determined.  
 Density at 20 °C: 0.745 g/cm<sup>3</sup>  
 Relative density: Not determined.  
 Solubility in/miscibility with: Water: Not miscible or difficult to mix.  
 Partition coefficient (n-octanol/water): Not determined.  
 Ignition temperature: 200 °C  
 Decomposition temperature: Not determined.  
 Self-ignition temperature: The product is not selfigniting.  
 Viscosity: Not determined.  
 Oxidising properties: Not determined.

9.2. Other information:

Organic solvents: 99.9 %  
 Solid content: 0.1 %  
 VOC (EU): 745.0 g/l

**10. Section 10. Stability and reactivity:**

- 10.1. Reactivity: No further relevant information available.  
 10.2. Chemical stability: No decomposition if used according to specifications.  
 10.3. Possibility of hazardous reactions:  
     No dangerous reactions known.  
 10.4. Conditions to avoid: No further relevant information available.  
 10.5. Incompatible materials: No further relevant information available.  
 10.6. Hazardous decomposition products:  
     No dangerous decomposition products known.

**11.\* Section 11. Toxicological information:**

11.1. Information on toxicological effects:

Acute toxicity: Harmful if inhaled.

LD/LC50 values relevant for classification:

1330-20-7 Xylene (mixture of isomers)

Oral	LD50 rat	4300 mg/kg
Dermal	LD50 rabbit	2000 mg/kg

78-93-3 Butanone

Oral	LD50 rat	> 2193 mg/kg
Dermal	LD50 rabbit	≥ 5000 mg/kg

64742-49-0 Naphtha (petroleum), hydrotreated light

Oral	LD50 rat	> 5000 mg/kg
Dermal	LD50 rabbit	> 2800 mg/kg
Inhalative	LC50/4 h rat	> 23 mg/l

67-63-0 Propan-2-ol

Oral	LD50 rat	5840 mg/kg
Dermal	LD50 rabbit	13900 mg/kg
Inhalative	LC50/4 h rat	25000 mg/m <sup>3</sup>

111-76-2 2-butoxyethanol

Oral	LD50 rat	300 mg/kg
Dermal	LD50 rabbit	470 mg/kg
Inhalative	LC50/4 h rat	2000 mg/kg

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization:

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

Germ cell mutagenicity:

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

Carcinogenicity:

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

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Reproductive toxicity: Based on available data, the classification criteria are not met.  
 Specific target organ toxicity  
 - single exposure: May cause drowsiness or dizziness.  
 Specific target organ toxicity  
 - repeated exposure: Based on available data, the classification criteria are not met.  
 Aspiration hazard: May be fatal if swallowed and enters airways.  
 Other information: No further relevant information available.

### 12. Section 12. Ecological information:

#### 12.1. Toxicity:

Aquatic toxicity: Toxic to aquatic life with long lasting effects.

1330-20-7 Xylene (mixture of isomers)

Fish:	LC50/96 h	Pimephales promelas	8.9 - 16.4 mg/l
Invertebrates:	EC50/48 h	Daphnia magna	3.2 - 9.5 mg/l

78-93-3 Butanone

Fish:	LC50/96 h	Pimephales promelas	2993 mg/l
Invertebrates:	EC50/48 h	Daphnia magna	308 mg/l

64742-49-0 Naphtha (petroleum), hydrotreated light

Fish:	LL50/96 h	Onchorhynchus mykiss	> 13.4 mg/l
Invertebrates:	EL50/48 h	Daphnia magna	3 mg/l
	LOEC/21 days	Daphnia magna	0.32 mg/l
	NOEC/21 days	Daphnia magna	0.17 mg/l
Algae:	EL50/72 h	Pseudokirchneriella subcapitata	10 - 30 mg/l
	NOELR/72 h	Pseudokirchneriella subcapitata	10 mg/l

67-63-0 Propán-2-ol

Fish:	LC50/96 h	Pimephales promelas	9640 mg/l
Invertebrates:	LC50/24 h	Daphnia magna	9714 mg/l
Algae:	LOEC/8 days		1000 mg/l

111-76-2 2-Butoxyetanol

Fish:	LC50/96 h	Lepomis macrochirus	1490 mg/l
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12.2. Persistence and degradability: No further relevant information available.

12.3. Bioaccumulative potential: No further relevant information available.

12.4. Mobility in soil: No further relevant information available.

Ecotoxic effects: Remark: Toxic for fish.

Additional ecological information:

General notes: Water danger class 2 (German Regulation) (Self-assessment):  
 hazardous for water  
 Do not allow to enter water courses, ground water or drains.  
 Danger to drinking water if even small quantities leak into the ground.  
 Also poisonous for fish and plankton in water bodies.  
 Toxic for aquatic organisms.

12.5. Results of PBT and vPvB assessment:

PBT: Not applicable

vPvB: Not applicable

12.6. Other adverse effects: No further relevant information available.

### 13. Section 13. Disposal considerations:

#### 13.1. Waste treatment methods:

Product disposal: Must not be disposed together with household garbage.  
 Do not allow product to reach sewage system.  
 European Waste Catalogue: 16 03 05\* organic wastes containing hazardous substances  
 (\*hazardous waste)

Packagings disposal: Disposal must be made according to official regulations.  
 European Waste Catalogue: 15 01 11\* metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers

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Other disposal recommendations:	(*hazardous waste) Disposal must be made according to official regulations. The final decisions on the appropriate waste management method, in line with regional, national and European legislation, and possible adaptation to local conditions, remains the responsibility of the waste treatment operator.
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<b>14. Section 14. Transport information:</b>	
14.1. UN number:	UN 1950
ADR, IMDG, IATA	
14.2. UN proper shipping name:	UN 1950 AEROSOLS
ADR	AEROSOLS
IMDG	AEROSOLS, flammable
IATA	
14.3. Transport hazard class(es):	
ADR	
Class	2.1
Hazard label	2.1
IMDG	
Class	2.1
Hazard label	2.1
IATA	
Class	2.1
Hazard label	2.1
14.4. Packing group:	Void
ADR, IMDG, IATA	
14.5. Environmental hazards:	Product contains environmentally hazardous substances:
Marine pollutant:	No
14.6. Special precautions for user:	Warning: Gases
Danger Code (Kemler):	-
EMS Number:	F-D, S-U
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:	Not applicable.
Transport/ Additional information:	
ADR	
Tunnel restriction code	D
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

<b>15.* Section 15. Regulatory information:</b>	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:	
Used legislation:	
	Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended (REACH)
	Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, as amended (CLP)
	Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, as amended
	Commission Decision 2000/532/EC establishing a list of wastes, as amended
	Council Directive 89/686/EEC on the approximation of the laws of the Member States relating to personal protective equipment, as amended



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Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended  
 Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values  
 Commission Directive 2006/15/EC establishing a second list of indicative occupational exposure limit values  
 Commission Directive 2009/161/EU establishing a third list of indicative occupational exposure limit values  
 Directive 2004/42/CE of the European Parliament and of the Council on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC, as amended

National regulations:

Class NK

Share in 75-<100 %

Danish MAL Code 5-3

15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**16. Section 16. Other information:**

Relevant H-statements (Section 3):

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

BMGV: Biological monitoring guidance values

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level

EC50: Median effective concentration to 50% of a population

EC No.: EINECS and ELINCS Number

EINECS: European Inventory of Existing Commercial Chemical Substances

EL50: Effective loading rate lethal to 50% of the test population

ELINCS: European List of Notified Chemical Substances

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

LC50: Median concentration lethal to 50 % of a test population

LD50: Median dose lethal to 50 % of a test population

LL50: Lethal loading rate for 50% of the test population

LOEC: Lowest Observed Effect Concentration

NOEC: No Observed Effect Concentration

NOELR: No Observable Effect Loading Rate

OEL: Occupational Exposure Limit

PBT: Persistent, Bioaccumulative, Toxic

PNEC: Predicted No-Effect Concentration

Reg. No.: Registration number

VOC: Volatile Organic Compounds

vPvB: Very Persistent, Very Bioaccumulative

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WEL: Workplace exposure limits  
Acute Tox. 4: Acute toxicity, category 4  
Aerosol 1: Flammable aerosol, category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment, category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment, category 3  
Asp. Tox. 1: Aspiration hazard, category 1  
Eye Irrit. 2: Serious eye irritation, category 2  
Flam. Gas 1: Flammable gas, category 1  
Flam. Liq. 2: Flammable liquid, category 2  
Flam. Liq. 3: Flammable liquid, category 3  
Press. Gas: Gases under pressure  
Skin Irrit. 2: Skin irritation, category 2  
STOT SE 3: Specific target organ toxicity — single exposure, category 3

The information contained herein is based on our best knowledge and the present legislation. Further, the Safety Data Sheet has been elaborated on the basis of the original Safety Data Sheet provided by the manufacturer. These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**\*Compared to the last version the data has been changed.**