

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830



Article No.: A34X00 AQUA Clear Lacquer
Print date: 23.01.2017 Revision date: 23.01.2017
Version: 1.16 Issue date: 23.01.2017
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. product identifiers

Article No. (manufacturer/supplier) A34X00
Identification of the substance or mixture AQUA Clear Lacquer
Art.no. A34200, A34300, A34400; A34500, A34600

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

Relevant identified uses:

Coating (Paint, Varnish).

Uses advised against:

Do not use for products which come into contact with the food stuffs.

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

Heinrich König & Co.KG

An der Rosenhelle 5

D-61138 Niederdorfelden

Telephone: +49 6101 5360 0

Telefax: +49 6101 5360 11

Dept. responsible for information:

Laboratory

Only available during office hours:

Telephone: +49 6101 5360 71

Mon - Thurs 08:00 to 16:00

Friday 08:00 - 12:30

E-mail (competent person)

SDB@heinrich-koenig.de

1.4. Emergency telephone number

Emergency telephone number

Emergency CONTACT (24-Hour-Number): GBK
GmbH +49 (0)6132-84463

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Aerosol 2 / H223

Aerosol

Flammable aerosol.

Aerosol 2 / H229

Aerosol

Pressurised container: May burst if heated.

Eye Irrit. 2 / H319

Serious eye damage/eye irritation

Causes serious eye irritation.

2.2. Label elements

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

Hazard pictograms



Warning

Hazard statements

H223

Flammable aerosol.

H229

Pressurised container: May burst if heated.

H319

Causes serious eye irritation.

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.

P264

Wash hands thoroughly after handling.

P280

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

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313

If eye irritation persists: Get medical advice/attention.

P410 + P412

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

contains:

not applicable

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Supplemental Hazard information (EU)

not applicable

2.3. Other hazards

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Product description / chemical characterization

Description Aerosol

Hazardous ingredients

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

EC No. CAS No. INDEX No.	REACH No. Chemical name classification // Remark	Wt %
204-065-8 115-10-6 603-019-00-8	01-2119472128-37-xxxx dimethylether Flam. Gas 1 H220 / compressed gas H280	25 < 50
200-661-7 67-63-0 603-117-00-0	01-2119457558-25-xxxx propan-2-ol Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336	10 < 20
200-578-6 64-17-5 603-002-00-5	01-2119457610-43-xxxx Ethanol Flam. Liq. 2 H225	10 < 20
215-647-6 1336-21-6 007-001-01-2	01-2119488876-14-xxxx Ammonia Skin Corr. 1B H314 / Aquatic Acute 1 H400 / STOT SE 3 H335 / Aquatic Chronic 2 H411	0,3 < 1

Additional information

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons:

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strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Precautions against fire and explosion:

Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRBS 2153)".

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values:

dimethylether

INDEX No. 603-019-00-8 / EC No. 204-065-8 / CAS No. 115-10-6

TWA: 766 mg/m³; 400 ppm

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STEL: 958 mg/m³; 500 ppm
propan-2-ol
INDEX No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0
TWA: 999 mg/m³; 400 ppm
STEL: 1250 mg/m³; 500 ppm
Ethanol
INDEX No. 603-002-00-5 / EC No. 200-578-6 / CAS No. 64-17-5
TWA: 1920 mg/m³; 1000 ppm

Additional information

TWA : long-term occupational exposure limit value
STEL : short-term occupational exposure limit value
Ceiling : peak limitation

DNEL:

dimethyl ether
INDEX No. 603-019-00-8 / EC No. 204-065-8 / CAS No. 115-10-6
DNEL long-term inhalative (systemic), Workers: 1894 mg/m³
DNEL long-term inhalative (systemic), Consumer: 471 mg/m³

Ethanol
INDEX No. 603-002-00-5 / EC No. 200-578-6 / CAS No. 64-17-5
DNEL long-term dermal (systemic), Workers: 343 mg/kg
DNEL acute inhalative (local), Workers: 1900 mg/m³
DNEL long-term inhalative (systemic), Workers: 950 mg/m³
DNEL long-term oral (repeated), Consumer: 87 mg/kg
DNEL acute dermal, short-term (systemic), Consumer: 950 mg/kg
DNEL long-term dermal (systemic), Consumer: 206 mg/kg
DNEL acute inhalative (local), Consumer: 950 mg/m³
DNEL long-term inhalative (systemic), Consumer: 114 mg/m³

propan-2-ol
INDEX No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0
DNEL long-term dermal (systemic), Workers: 888 mg/kg
DNEL long-term inhalative (systemic), Workers: 500 mg/m³
DNEL long-term oral (repeated), Consumer: 26 mg/kg
DNEL long-term dermal (systemic), Consumer: 319 mg/kg
DNEL long-term inhalative (systemic), Consumer: 89 mg/m³

Ammonia
INDEX No. 007-001-01-2 / EC No. 215-647-6 / CAS No. 1336-21-6
DNEL short-term oral (acute), Workers:
DNEL acute dermal, short-term (systemic), Workers: 6,8 mg/kg
DNEL long-term dermal (systemic), Workers: 6,8 mg/kg
DNEL long-term inhalative (systemic), Workers: 47,6 mg/m³

PNEC:

dimethyl ether
INDEX No. 603-019-00-8 / EC No. 204-065-8 / CAS No. 115-10-6
PNEC sediment, freshwater: 0,681 mg/kg
PNEC, Soil: 0,045 mg/kg
PNEC sewage treatment plant (STP): 160 mg/l

Ethanol
INDEX No. 603-002-00-5 / EC No. 200-578-6 / CAS No. 64-17-5
PNEC aquatic, freshwater: 0,96 mg/l
PNEC aquatic, marine water: 0,79 mg/l
PNEC aquatic, intermittent release: 2,75 mg/l
PNEC sediment, freshwater: 3,6 mg/kg
PNEC sediment, marine water: 2,9 mg/kg
PNEC, Soil: 0,63 mg/kg
PNEC sewage treatment plant (STP): 580 mg/l
PNEC Secondary Poisoning: 0,72 mg/kg

propan-2-ol

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INDEX No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0

PNEC aquatic, freshwater: 140,9 mg/l
PNEC aquatic, marine water: 140,9 mg/l
PNEC aquatic, intermittent release: 140,9 mg/l
PNEC sediment, freshwater: 552 mg/kg
PNEC sediment, marine water: 552 mg/kg
PNEC, Soil: 28 mg/kg
PNEC sewage treatment plant (STP): 2251 mg/l
PNEC Secondary Poisoning: 160 mg/kg

Ammonia

INDEX No. 007-001-01-2 / EC No. 215-647-6 / CAS No. 1336-21-6

PNEC aquatic, freshwater: 0,0011 mg/l
PNEC aquatic, intermittent release: 0,0068 mg/l

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Occupational exposure controls

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection

For prolonged or repeated handling the following glove material must be used: Butyl caoutchouc (butyl rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection

Wear closely fitting protective glasses in case of splashes.

Protective clothing

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

Physical state:

liquid

Colour:

colourless

Odour:

characteristic

Odour threshold:

not applicable

pH at 20 °C:

N.A.

Melting point/freezing point:

n.a.

Initial boiling point and boiling range:

-25 °C

Method: calculated.

Source: dimethyl ether

Flash point:

-41 °C

Evaporation rate:

not applicable

Flammability (solid, gas):

burning time (s):

not applicable

Upper/lower flammability or explosive limits:

Lower explosion limit:

2,91 Vol-%

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Upper explosion limit:	Method: calculated. 33 Vol-%
Vapour pressure at 20 °C:	Method: calculated. Source: Ammonia 2257,9665 mbar Method: calculated.
Vapour density:	not applicable
Relative density:	
Density at 20 °C:	0,78 g/cm³ Method: calculated.
Solubility(ies):	
Water solubility (g/L) at 20 °C:	partially soluble
Partition coefficient: n-octanol/water:	see section 12
Auto-ignition temperature:	not applicable
Decomposition temperature:	not applicable
Viscosity at 20 °C:	12 s 4 mm Method: DIN 53211
Explosive properties:	not applicable
Oxidising properties:	not applicable
9.2. Other information	*
Solid content (%):	8,09 Wt %
solvent content:	
Organic solvents:	75 Wt %
Water:	17 Wt %

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

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

No data on preparation itself available.

11.1. Information on toxicological effects

Acute toxicity

dimethyl ether

oral, LD50, Rat: > 10000 mg/kg

Based on available data the classification criteria are not met.

Ethanol

oral, LD50, Rat: 10470 mg/kg

Method: OECD 401

dermal, LD50, Rabbit: > 2000 mg/kg

Method: OECD 402

inhalative (vapours), LC50, Rat: 51 mg/l (4 h)

Method: OECD 403

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Based on available data the classification criteria are not met.

propan-2-ol

oral, LD50, Rat: 5840 mg/kg

Method: OECD 401

dermal, LD50, Rabbit: > 2000 mg/kg

Method: OECD 402

inhalative (vapours), LC50, Rat: 30 mg/l (4 h)

Based on available data the classification criteria are not met.

skin corrosion/irritation; Serious eye damage/eye irritation

propan-2-ol

eyes

Causes serious eye irritation.

Ammonia

Skin, Rabbit

Method: OECD 404

Skin corrosion

eyes

Irritating to eyes.; Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Toxicological data are not available.

Specific target organ toxicity

propan-2-ol

Specific target organ toxicity (single exposure), drowsiness:

May cause drowsiness or dizziness.

Ammonia

Specific target organ toxicity (single exposure), Irritation:

May cause respiratory irritation.

Aspiration hazard

Toxicological data are not available.

Practical experience/human evidence

Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall Assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

SECTION 12: Ecological information

overall evaluation

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

There is no information available on the preparation itself.

Do not allow to enter into surface water or drains.

12.1. Toxicity

Ethanol

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 15300 mg/l (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 12340 mg/l (48 h)

Algae toxicity, ErC50, Chlorella vulgaris: 275 mg/l (72 h)

Method: OECD 201

Bacteria toxicity, EC50, Pseudomonas putida: 5800 mg/l (4 h)

Based on available data the classification criteria are not met.

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propan-2-ol

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 9640 mg/l (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 9714 mg/l (48 h)
Algae toxicity, ErC50, Scenedesmus quadricauda: > 100 mg/l (72 h)
Bacteria toxicity: > 100 mg/l
Based on available data the classification criteria are not met.

Ammonia

Fish toxicity, LC50: 0,89 mg/l (96 h)
Daphnia toxicity, EC50: 101 mg/l (48 h)
Algae toxicity, ErC50: 2700 mg/l (432 h)
Very toxic to aquatic organisms.

Long-term Ecotoxicity

Ammonia

Fish toxicity, NOEC: 0,022 mg/l (73)
Daphnia toxicity, NOEC: 0,79 mg/l (96)
Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Ethanol

Biodegradation, aerobic.: 97 % (28 D)
Readily biodegradable (according to OECD criteria).

propan-2-ol

Biodegradation: 53 % (5 D)
Readily biodegradable (according to OECD criteria).

Ammonia

Biodegradation:
Readily biodegradable (according to OECD criteria).

12.3. Bioaccumulative potential

dimethylether

Partition coefficient: n-octanol/water: < 4

Ethanol

Partition coefficient: n-octanol/water: -0,35

propan-2-ol

Partition coefficient: n-octanol/water: 0,05

Ammonia

Partition coefficient: n-octanol/water: -0,64

Bioconcentration factor (BCF)

Ethanol

Bioconcentration factor (BCF): 0,66
No indication of bioaccumulation potential.

12.4. Mobility in soil

Toxicological data are not available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product

Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

150110 packaging containing residues of or contaminated by
dangerous substances

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packaging

Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1. UN number

UN 1950

14.2. UN proper shipping name

Land transport (ADR/RID): Aerosols, flammable
Sea transport (IMDG): AEROSOLS
Air transport (ICAO-TI / IATA-DGR): Aerosols, flammable

14.3. Transport hazard class(es)

2.1

14.4. Packing group

not applicable

14.5. Environmental hazards

Land transport (ADR/RID) not applicable
Marine pollutant not applicable

14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)

tunnel restriction code D

Sea transport (IMDG)

EmS-No. F-D, S-U

Air transport (ICAO-TI / IATA-DGR)

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU legislation

Directive 2010/75/EU on industrial emissions

VOC-value (in g/L): 583,129

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

15.2. Chemical Safety Assessment

For the following substances of this preparation a chemical safety assessment has been carried out:

EC No. CAS No.	Chemical name	REACH No.
204-065-8 115-10-6	dimethylether	01-2119472128-37-xxxx
200-661-7 67-63-0	propan-2-ol	01-2119457558-25-xxxx
200-578-6 64-17-5	Ethanol	01-2119457610-43-xxxx
215-647-6 1336-21-6	Ammonia	01-2119488876-14-xxxx

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SECTION 16: Other information

Full text of classification in section 3:

Flam. Gas 1 / H220	flammable gases	Extremely flammable gas.
compressed gas / H280	Gases under pressure	Contains gas under pressure; may explode if heated.
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Skin Corr. 1B / H314	skin corrosion/irritation	Causes severe skin burns and eye damage.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Further information

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

* Data changed compared with the previous version