

Article No.: KG94000ADJ10 [Z] DecoTec® 5434
Print date: 25.04.2023 Revision date: 05.11.2022
Version: 12.0000 Issue date: 05.11.2022

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

1.1. product identifiers

Article No. (manufacturer/supplier) KG94000ADJ10
Trade name/designation [Z] DecoTec® 5434
TopOil
BioDeckingProtectX
UFI: WWH2-A037-D00P-RER8

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

Relevant identified uses:

paint and/or paint related material
Reserved for industrial and professional use.

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

Berger-Zobel GmbH
Coating Systems Telephone: +49 6359 / 8005-0
Maybachstraße 2 Telefax: +49 6359 / 8005-170
67269 Grünstadt

Department responsible for information:

Laboratory
E-mail Sicherheitsdaten@berger-zobel.de

1.4. Emergency telephone number

24-hour emergency number: +49 700 24112112
(BLG)
24-hour emergency number in side USA: +1 872 5888271 or +11 49 700 24112112 (BLG)

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].

Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Carc. 1B / H350	Carcinogenicity	May cause cancer.

2.2. Label elements

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

Hazard pictograms



Danger

Hazard statements

H317 May cause an allergic skin reaction.
H350 May cause cancer.

Precautionary statements

P201 Obtain special instructions before use.
P280 Wear protective gloves and eye/face protection.
P308 + P313 IF exposed or concerned: Get medical advice/attention.

Hazard components for labelling

Tung oil
butanone oxime
phthalic anhydride
Pin-2(3)-ene

Supplemental hazard information

not applicable

2.3. Other hazards

Spontaneous ignition possible through autoxidation of cloths soaked in the product. (The same applies to dust and other paint-soaked items). The product itself is not self ignitive.

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Other information: If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description Alkydharz-Pflanzenöl-Kombination

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

EC No. CAS No. Index No.	REACH No. Designation classification // Remark	weight-%
918-167-1	01-2119472146-39-XXXX Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics Flam. Liq. 3 H226 / Asp. Tox. 1 H304	10 - 15
920-901-0	01-2119456810-40-XXXX Alkanes, C11-13-isoalkane < 2% Aromaten Asp. Tox. 1 H304 / Flam. Liq. 4 H227 / EUH066	10 - 15
232-272-3 8001-20-5	Tung oil Skin Sens. 1 H317	7,5 - 10
252-104-2 34590-94-8	01-2119450011-60-XXXX (2-methoxymethylethoxy)propanol Substance with a common (EC) occupational exposure limit value.	2,5 - 5
202-496-6 96-29-7 616-014-00-0	01-2119539477-28-XXXX butanone oxime Carc. 1B H350 / Acute Tox. 4 H312 / Acute Tox. 3 H301 / STOT SE 3 H336 / STOT SE 1 H370 / STOT RE 2 H373 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317 Acute toxicity estimate (ATE): ATE (oral): 100 mg/kg bw / ATE (dermal): 1100 mg/kg bw	0,5 - 1
245-018-1 22464-99-9	01-2119979088-21-XXXX 2-ethylhexanoic acid, zirconium salt Repr. 2 H361	0,25 - 0,5
201-607-5 85-44-9 607-009-00-4	01-2119457017-41-XXXX phthalic anhydride Acute Tox. 4 H302 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Resp. Sens. 1 H334 / Skin Sens. 1 H317 Acute toxicity estimate (ATE): ATE (oral): 1530 mg/kg bw	0,1 - 0,25
201-291-9 80-56-8	01-2119519223-49-XXXX Pin-2(3)-ene Skin Irrit. 2 H315 / Skin Sens. 1B H317 / Asp. Tox. 1 H304 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410 / Flam. Liq. 3 H226	0,1 - 0,25

Additional information

Full text of classification: see section 16

Labelling for contents according to regulation (EC) No. 648/2004

weight-%	Ingredient
	2H-1-Benzopyran-2-one (Cumarin)
	(R)-p-mentha-1,8-diene D-Limonene

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

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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.

Following 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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

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

Unsuitable extinguishing media

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 section 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.

Further information

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

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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 (TRGS 727)".

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 25 °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:

(2-methoxymethylethoxy)propanol

EC No. 252-104-2 / CAS No. 34590-94-8

WEL, TWA: 308 mg/m³; 50 ppm

Remark: (may be absorbed through the skin)

phthalic anhydride

Index No. 607-009-00-4 / EC No. 201-607-5 / CAS No. 85-44-9

WEL, TWA: 4 mg/m³

WEL, STEL: 12 mg/m³

Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

DNEL:

(2-methoxymethylethoxy)propanol

EC No. 252-104-2 / CAS No. 34590-94-8

DNEL long-term dermal (systemic), Workers: 283 mg/kg

DNEL long-term inhalative (systemic), Workers: 308 mg/m³

DNEL long-term dermal (systemic), Consumer: 121 mg/kg

DNEL long-term inhalative (systemic), Consumer: 37,2 mg/m³

DNEL long-term exposure oral (systemic effects), Consumer: 36 mg/kg

PNEC:

(2-methoxymethylethoxy)propanol

EC No. 252-104-2 / CAS No. 34590-94-8

PNEC aquatic, freshwater: 19 mg/L

PNEC aquatic, marine water: 1,9 mg/L

PNEC aquatic, intermittent release: 190 mg/L

PNEC sediment, freshwater: 70,2 mg/kg

PNEC sediment, marine water: 7,02 mg/kg

PNEC, soil: 2,74 mg/kg

PNEC sewage treatment plant (STP): 4168 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.

Personal protection equipment

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: > 480 min.

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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 EN ISO 374

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

Eye/face protection

Wear closely fitting protective glasses in case of splashes.

Body protection

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 section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	brown
Odour:	characteristic
Odour threshold:	not applicable
Melting point/freezing point:	not applicable
Initial boiling point and boiling range:	170 °C Source: Alkanes, C11-13-isoalkane < 2% Aromaten
Flammability:	Combustible liquid.
Lower and upper explosion limit:	
Lower explosion limit:	0,69 Vol-%
Upper explosion limit:	14 Vol-% Source: (2-methoxymethylethoxy)propanol
Flash point:	62 °C
Auto-ignition temperature:	> 200 °C Source: Alkanes, C11-13-isoalkane < 2% Aromaten
Decomposition temperature:	not applicable
pH at 20 °C:	not applicable
Cinematic viscosity (40°C):	< 80 mm²/s
Viscosity at 20 °C:	14 s 4 mm Method: DIN 53211
Solubility(ies):	
Water solubility at 20 °C:	insoluble
Partition coefficient: n-octanol/water:	see section 12
Vapour pressure at 20 °C:	0,7 mbar Method: calculated. Source: Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics
Density and/or relative density:	
Density at 20 °C:	0,92 g/cm³ Method: ISO 2811, part 3
Relative vapour density:	not applicable
particle characteristics:	not applicable
9.2. Other information	
Solid content:	70,15 weight-%
solvent content:	
Organic solvents:	29 weight-%

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Water: 0 weight-%
Solvent separation test: < 3 weight-% (ADR/RID)

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

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

not applicable

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

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

Acute toxicity

phthalic anhydride

oral, LD50, Rat: 1530 mg/kg

dermal, LD50, Rabbit: 3160 mg/kg

inhalative, Rat: 0,21 mg/L (1 h)

(2-methoxymethylethoxy)propanol

oral, LD50, Rat: > 5000 mg/kg

dermal, LD50, Rabbit: > 5000 mg/kg

Skin corrosion/irritation; Serious eye damage/eye irritation

phthalic anhydride

Skin (4 h)

eyes

(2-methoxymethylethoxy)propanol

Skin

no irritation

eyes

Respiratory or skin sensitisation

May cause an allergic skin reaction.

phthalic anhydride

Skin:

Respiratory system:

(2-methoxymethylethoxy)propanol

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

May cause cancer.

butanone oxime

Carcinogenicity

2-ethylhexanoic acid, zirconium salt

Reproductive toxicity

STOT-single exposure; STOT-repeated exposure

phthalic anhydride

Specific target organ toxicity (single exposure), Irritation

(2-methoxymethylethoxy)propanol

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Evaluation No data available

Aspiration hazard

(2-methoxymethylethoxy)propanol

Aspiration hazard; Evaluation Represents no obvious danger of aspiration due to its physical properties

Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics

Aspiration hazard

Practical experience/human evidence

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

EC No. CAS No.	Designation	Classification according to Regulation (EC) No 1272/2008 [CLP]
202-496-6 96-29-7	butanone oxime	Carc. 1B

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

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

(2-methoxymethylethoxy)propanol

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 10000 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 1919 mg/L (48 h)

12.2. Persistence and degradability

(2-methoxymethylethoxy)propanol

: 75 % (28 D); Evaluation Readily biodegradable (according to OECD criteria).

Method: OECD F

: 93 % (13 D)

Method: OECD 302B/ ISO 9888/ EEC 92/69/V, C.9

12.3. Bioaccumulative potential

phthalic anhydride

Partition coefficient: n-octanol/water: 1,6

(2-methoxymethylethoxy)propanol

Partition coefficient: n-octanol/water: 1,01

12.4. Mobility in soil

(2-methoxymethylethoxy)propanol

: Evaluation No data 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. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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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

080111* Waste paint and varnish containing organic solvents or other dangerous substances

*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Appropriate disposal / Package Recommendation

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

SECTION 14: Transport information

No dangerous good in sense of this transport regulation.

14.1. **UN number or ID number**
not applicable

14.2. **UN proper shipping name**

14.3. **Transport hazard class(es)**
not applicable

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 -

Sea transport (IMDG)

EmS-No. not applicable

14.7. **Maritime transport in bulk according to IMO instruments**

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

EU legislation

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]
This product is not classified according to Directive 2012/18/EU.

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC-value (in g/L) ISO 11890-2: 273

VOC-value (in g/L) ASTM D2369: 273

National regulations

Restrictions of occupation

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Other information:

Switzerland:

Volatile organic compounds (VOC) content in percent by weight: 29

Denmark:

PR-No.:

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MAL code (MAL code in mixture):

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

Full text of classification in section 3

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
Flam. Liq. 4 / H227	Flammable liquids	Combustible liquid.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Carc. 1B / H350	Carcinogenicity	May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Acute Tox. 3 / H301	Acute toxicity (oral)	Toxic if swallowed.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
STOT SE 1 / H370	STOT-single exposure	Causes damage to organs (or state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
STOT RE 2 / H373	STOT-repeated exposure	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging the unborn child.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
Resp. Sens. 1 / H334	Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1B / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.

Classification procedure

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.
Carc. 1B	Carcinogenicity	Calculation method.

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2020/878

[Z] ZOBEL

Coating Systems

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LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

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 section 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.