

Safety Data Sheet

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

Trade name : MD 535 Plaster remover
Revision : 18.05.2022
Print date : 18.05.2022

Version (Revision) : 3.0.2 (3.0.1)

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

1.1 Product identifier

MD 535 Plaster remover

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

Relevant identified uses

MD 535 is a special cleaner with strong cleaning power for the removal of plaster and alginates from impression trays, spatulas, plaster knives, mixing beakers (also from vacuum mixing devices), prosthetic materials of all types, orthodontic appliances, etc.

Product Categories [PC]

PC35 - Washing and cleaning products (including solvent based products)

Uses advised against

None, if handled according to order.

Remark

The product is intended for professional use.

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

orochemie GmbH + Co. KG

Street : Max-Planck-Straße 27

Postal code/city : 70806 Kornwestheim

Telephone : +49 7154 1308-0

Telefax : +49 7154 1308-40

Information contact : DÜRR DENTAL SE, Höpfigheimer Str. 17, 74321 Bietigheim-Bissingen, Germany
Tel: [+49 7142 705-0](tel:+4971427050), Fax: [+49 7142 705-500](tel:+497142705500), info@duerrdental.com

in Australia:

DÜRR DENTAL SE, PO Box 2067, Woonona East New South Wales 2517, Australia, Frank Schröder, Tel.: 1300 52 53 51

in New Zealand:

Ivoclar Vivadent Ltd, 12 Omega Street, Rosedale, Auckland 0632, New Zealand. Customer Services Phone: 0508 486 252
Telephone: +64 9 914 9999 Fax: +64 9 914 9990 Email: Customercare.nz@ivoclar.com

1.4 Emergency telephone number

National Poisons Centre: 0800 764 766 / 24 hours a day, 7 days a week New Zealand wide.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Although there is no labelling required for this product, we nevertheless advise observation of the safety recommendations.

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

None

Classification procedure

The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP].

2.2 Label elements

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

Precautionary statements

P280 Wear protective gloves and eye/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.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container to hazardous or special waste collection point.

Special rules for supplemental label elements for certain mixtures

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EUH210 Safety data sheet available on request.

2.3 Other hazards

None

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Description

MD 535 contains alkaline cleaning components and complexing agents in aqueous solution.

Hazardous ingredients

SODIUM ETHYLENEDIAMINETETRAACETATE ; REACH registration No. : 01-2119486762-27 ; EC No. : 200-573-9; CAS No. : 64-02-8

Weight fraction : $\geq 10 - < 15$ %

Classification 1272/2008 [CLP] : STOT RE 2 ; H373 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Acute Tox. 4 ; H332

SODIUM ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT ; REACH registration No. : 01-2119486775-20 ; EC No. : 205-358-3; CAS No. : 139-33-3

Weight fraction : $\geq 5 - < 10$ %

Classification 1272/2008 [CLP] : STOT RE 2 ; H373 Acute Tox. 4 ; H332

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

Following inhalation

No special measures are necessary.

In case of skin contact

Wash with plenty of water. When in doubt or if symptoms are observed, get medical advice.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

No special measures are necessary. Never give anything by mouth to an unconscious person or a person with cramps.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂) Extinguishing powder Water spray Water mist The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

None known.

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Hazardous combustion products

None known.

5.3 Advice for firefighters

Adapt protective equipment to surrounding fire.

Special protective equipment for firefighters

Adapt protective equipment to surrounding fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. See protective measures under point 7 and 8.

For non-emergency personnel

Use personal protection equipment. See protective measures under point 7 and 8.

For emergency responders

Personal protection equipment

See protective measures under point 7 and 8.

6.2 Environmental precautions

No special environmental measures are necessary.

6.3 Methods and material for containment and cleaning up

For cleaning up

No special measures are necessary.

6.4 Reference to other sections

None

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep/Store only in original container. Please note safety instructions and directions for use on the drum.

Protective measures

Measures to prevent fire

Usual measures for fire prevention. When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container. Keep container tightly closed. Keep in a cool, well-ventilated place. Do not store in temperatures below 5 °C.

Hints on joint storage

Store the foodstuffs separately.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL/DMEL and PNEC values

There are no data available on the preparation itself.

DNEL/DMEL

Limit value type : DNEL Consumer (local) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)

Exposure route : Inhalation

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Exposure frequency : Long-term (repeated)
Limit value : 1,5 mg/m³
Limit value type : DNEL Consumer (local) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 1,5 mg/m³
Limit value type : DNEL Consumer (local and systemic) (SODIUM ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT ; CAS No. : 139-33-3)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 1,5 mg/m³
Limit value type : DNEL Consumer (local and systemic) (SODIUM ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT ; CAS No. : 139-33-3)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 1,5 mg/m³
Limit value type : DNEL Consumer (systemic) (SODIUM ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT ; CAS No. : 139-33-3)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 25 mg/kg
Limit value type : DNEL Consumer (systemic) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 1,5 mg/m³
Limit value type : DNEL Consumer (systemic) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 1,5 mg/m³
Limit value type : DNEL Consumer (systemic) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Oral
Exposure frequency : Long-term (repeated)
Limit value : 25 mg/kg
Safety factor : 24 h
Limit value type : DNEL worker (local) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 2,5 mg/m³
Limit value type : DNEL worker (local) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 2,5 mg/m³
Limit value type : DNEL worker (local and systemic) (SODIUM ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT ; CAS No. : 139-33-3)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 2,5 mg/m³
Limit value type : DNEL worker (local and systemic) (SODIUM ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT ; CAS No. : 139-33-3)
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Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 2,5 mg/m³
Limit value type : DNEL worker (systemic) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 2,5 mg/m³

PNEC

Limit value type : PNEC aquatic, freshwater (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Water (Including sewage plant)
Limit value : 2,8 mg/l
Limit value type : PNEC aquatic, freshwater (SODIUM ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT ; CAS No. : 139-33-3)
Limit value : 2,2 mg/l
Limit value type : PNEC aquatic, intermittent release (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Limit value : 1,6 mg/l
Limit value type : PNEC aquatic, marine water (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Water (Including sewage plant)
Limit value : 0,28 mg/l
Limit value type : PNEC aquatic, marine water (SODIUM ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT ; CAS No. : 139-33-3)
Limit value : 0,22 mg/l
Limit value type : PNEC (Industrial) (SODIUM ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT ; CAS No. : 139-33-3)
Exposure route : Soil
Limit value : 0,72 mg/kg
Limit value type : PNEC (Industrial) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Soil
Limit value : 0,95 mg/kg
Limit value type : PNEC sewage treatment plant (STP) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Water (Including sewage plant)
Limit value : 57 mg/l
Limit value type : PNEC sewage treatment plant (STP) (SODIUM ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT ; CAS No. : 139-33-3)
Limit value : 43 mg/l

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Eye glasses with side protection

Skin protection

Hand protection

Short-term exposure (Level 2: < 30 min): disposable gloves to EN374 category III, e.g. nitrile rubber, material thickness 0.1 mm.

Long-term exposure (Level 6: < 480 min): protective gloves to EN374 category III, e.g. nitrile rubber, material thickness 0.7 mm.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

Body protection

Body protection: not required.

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Respiratory protection

No special measures are necessary.

General health and safety measures

Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and after work. Separate storage of work clothes. When using do not eat, drink, smoke, sniff.

Occupational exposure controls

Technical measures to prevent exposure

Provide adequate ventilation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : odourless

Safety relevant basis data

Melting point/melting range :	(1013 hPa)		No data available
Initial boiling point and boiling range :	(1013 hPa)	ca.	100 °C
Decomposition temperature :	(1013 hPa)		No data available
Flash point :			not applicable
Ignition temperature :			not applicable
Lower explosion limit :			not applicable
Upper explosion limit :			not applicable
Vapour pressure :	(50 °C)		No data available
Density :	(20 °C)		1,14 - 1,18 g/cm ³
Solvent separation test :	(20 °C)	<	3 %
Water solubility :	(20 °C)		100 Wt %
pH value :			8 - 9
log P O/W :			No data available
Flow time :	(20 °C)		150 - 240 s
Odour threshold :			No data available
Maximum VOC content (EC) :			0 Wt %
Oxidising liquids :			Not applicable.
Explosive properties :			Not applicable.
Corrosive to metals :			Not corrosive to metals.

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

None, if handled according to order.

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

None, if handled according to order.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

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10.6 Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There are no data available on the mixture itself.

Acute effects

Acute oral toxicity

Parameter : LD50 (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Oral
Species : Rat
Effective dose : 1780 - 2000 mg/kg
Parameter : LD50 (SODIUM ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT ; CAS No. : 139-33-3)
Exposure route : Oral
Species : Rat
Effective dose : > 2000 - 5000 mg/kg

Practical experience/human evidence

slightly irritant but not relevant for classification.

Acute inhalation toxicity

Parameter : LC50 (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Inhalation
Species : Rat
Effective dose : 1000 - 5000 mg/l
Exposure time : 6 h
Parameter : LC50 (SODIUM ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT ; CAS No. : 139-33-3)
Exposure route : Inhalation
Species : Rat
Effective dose : > 1 - 5 mg/l
Exposure time : 6 h

Irritant and corrosive effects

Rabbits eye: slightly to moderately irritating but not relevant for classification. OECD 405. OECD 437.

Sensitisation

No data available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

No information available.

Carcinogenicity

Parameter : NOAEL(C) (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Exposure route : Oral
Effective dose : 500 mg/kg
Exposure time : 2160 h

11.5 Additional information

The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP].

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

There are no data available on the preparation itself.

Acute (short-term) fish toxicity

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Parameter : LC50 (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Species : Lepomis macrochirus (Bluegill)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 951 mg/l
Exposure time : 96 h
Parameter : LC50 (SODIUM ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT ; CAS No. : 139-33-3)
Species : Lepomis macrochirus (Bluegill)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : > 100 mg/l
Exposure time : 96 h
Parameter : LC50 (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Species : Leuciscus idus (golden orfe)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 2040 mg/l
Exposure time : 96 h

Chronic (long-term) fish toxicity

Parameter : NOEC (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Species : Brachydanio rerio (zebra-fish)
Evaluation parameter : Chronic (long-term) fish toxicity
Effective dose : $\geq 25,7$ mg/l
Exposure time : 840 h
Method : OECD 210
Parameter : NOEC (SODIUM ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT ; CAS No. : 139-33-3)
Species : Brachydanio rerio (zebra-fish)
Evaluation parameter : Chronic (long-term) fish toxicity
Effective dose : $\Rightarrow 36,9$ mg/l
Exposure time : 840 h
Method : OECD 210

Acute (short-term) daphnia toxicity

Parameter : EC50 (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 140 mg/l
Exposure time : 48 h
Parameter : EC50 (SODIUM ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT ; CAS No. : 139-33-3)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : > 100 mg/l
Exposure time : 48 h
Method : DIN 38412 / part 11

Chronic (long-term) daphnia toxicity

Parameter : NOEC (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 25 mg/l
Exposure time : 504 h

Acute (short-term) algae toxicity

Parameter : EC50 (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Species : Algae
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : > 300 mg/l
Exposure time : 72 h

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Parameter : EC50 (SODIUM ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT ; CAS No. : 139-33-3)
Species : Scenedesmus subspicatus
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : > 100 mg/l
Exposure time : 72 h

Sediment toxicity

Toxicity to soil macroorganisms

Acute earthworm toxicity

Parameter : LC50 (SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8)
Species : Acute earthworm toxicity
Effective dose : 156 mg/kg
Exposure time : 336 h
Method : OECD 207

Effects in sewage plants

Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge.

Parameter : EC20 (SODIUM ETHYLENEDIAMINETETRAACETIC ACID, DISODIUM SALT ; CAS No. : 139-33-3)
Inoculum : Activated sludge
Effective dose : > 500 mg/l
Method : OECD 209

12.2 Persistence and degradability

Abiotic degradation

No data available.

Biodegradation

All active agents are biodegradable at the dilution rates arising in the sewage system.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No data available

Adsorption/Desorption

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

Prevent from flowing into surface water/ground water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

Concentrate/larger quantities: 07 06 01* aqueous cleaning liquid.

Waste treatment options

Appropriate disposal / Product

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package

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Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number

No dangerous goods in sense of this transport regulation.

14.2 UN proper shipping name

No dangerous goods in sense of this transport regulation.

14.3 Transport hazard class(es)

No dangerous goods in sense of this transport regulation.

14.4 Packing group

No dangerous goods in sense of this transport regulation.

14.5 Environmental hazards

No dangerous goods in sense of this transport regulation.

14.6 Special precautions for user

None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

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

Approval Code: HSR002558

Group Standard: Dental Products Subsidiary Hazard Group Standard 2020

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Indication of changes

02. Classification of the substance or mixture · 02. Label elements · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 03. Hazardous ingredients

16.2 Abbreviations and acronyms

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimates

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CMR = Carcinogen, Mutagen or Reproductive toxicant

CO₂ = Carbon dioxide

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EC = European Commission

EC50 = Half maximal effective concentration

EN = European Standard (Norm)

EU = European Union

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

H statement = GHS Hazard statement

IATA = International Air Transport Association ICAO-TI = International Civil Aviation Organization-Technical Instructions

IMDG = International Maritime Dangerous Goods

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LC50 = Median lethal concentration
LD50 = Median lethal dose
LogPow = Logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NOEC/NOEL = No observed effect concentration/level
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RMM = Risk Management Measure
RRN = REACH Registration Number
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
SVHC = Substances of Very High Concern
TLV/STEL = Threshold limit value/short-term exposure limit
TLV/TWA = Threshold limit value/time weighted average
UN = United Nations
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.

16.6 Training advice

None

16.7 Additional information

Notice the directions for use on the label.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
