

ANERKENNUNGSZERTIFIKAT Nr. 01 / 12

für das Holzschutzmittel

Korasit KS 2



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Produktart wasserlösliches Holzschutzsalzkonzentrat
für berufsmäßige und industrielle Verwendung.

Wirksamkeit vorbeugend wirksam gegen Pilze (P)
vorbeugend wirksam gegen Insekten (Iv)
beständig gegen Witterungseinflüsse und Feuchtigkeit (W)
für Holz in dauerndem Erdkontakt und/oder in dauerndem Kontakt mit Wasser (E)

Wirkstoff(e) N,N-Didecyl-N-methyl-poly(oxyethyl)-ammoniumpropionat (= Bardap 26),
Kupferhydroxidcarbonat

Anwendungsbereich In den Gebrauchsklassen 1 bis 4 für tragende und/oder aussteifende Holzbauteile (zB Holzkonstruktionen, Stützen). Auch für nichttragende Hölzer (zB Schalungen) sowie Hölzer im Garten- und Landschaftsbau (zB Zäune, Palisaden, Pfähle). In GK1 nur für tragende oder aussteifende Bauteile.

Keine Anwendung jedoch für:

Holz, das in direkten Kontakt mit Lebens- oder Futtermitteln kommen kann. Holz, das in Bienenhäusern, Gewächshäusern oder Saunanlagen verbaut wird. Holz, das in direkten Kontakt mit Nutztieren (z.B. in Ställen oder Weidezäunen) kommen könnte..

Nicht großflächig in Innenräumen anwenden.

Außerdem gelten allgemeine Beschränkung, siehe dazu den Punkt 6. im Österreichischen Holzschutzmittelverzeichnis: „Vorsichtsmaßnahmen beim Umgang mit Holzschutzmitteln“

Anwendungsverfahren Kesseldrucktränkung (KD). Keinesfalls jedoch Spritzen. Die Handhabung des Produktes und das Trocknen von frisch behandeltem Holz muss in gut belüfteten Bereichen erfolgen. Keine Verarbeitung und Lagerung des imprägnierten Holzes unter Bedingungen, die das Produkt oder Produktreste in Boden oder Gewässer einschließlich Kanalisation gelangen lassen, könnte.

Gebrauchskonzentration mindestens KD: eine 1,0 %ige bis max. 4 %ige wässrige Lösung

Die Gebrauchskonzentration ist auf die Einbringmenge, die Holzart und die Holzdimension abzustimmen.

Auf-/Einbringmenge mindestens KD: GK 1: 2,5 kg/m³ GK 2: 3,5 kg/m³ GK 3: 4,5 kg/m³ GK 4: 7,0 kg/m³

Anerkennungszertifikat gültig bis Ende 2025 *)

ARBEITSGEMEINSCHAFT HOLZSCHUTZMITTEL

Mag. H. Kohlmann
Vorsitzender



Dr. K. Schaubmayr
Geschäftsführer

Wien, 22. Januar 2021

*) Dieses Produkt unterliegt den Bestimmungen des österreichischen Biozidproduktegesetzes BGBl. I 2000/105 und den einschlägigen Richtlinien und Verordnungen der Europäischen Union und darf nur gemäß diesen Bestimmungen in Österreich in Verkehr gebracht und verwendet werden. Im Fall eines Widerspruchs zu diesen Bestimmungen erlischt das Anerkennungszertifikat automatisch.

Fachverband der chemischen Industrie Österreich, Arbeitsgemeinschaft Holzschutzmittel
A-1045 Wien, Wiedner Hauptstraße 63, Postfach 325
Tel.: (0043) (05) 90 900-3749, Fax (0043) (05) 90 900-280, e-mail schaubmayr@fcio.wko.at, <http://www.holzschutzmittel.at>

Certification holder : **Kurt Obermeier GmbH**

Product trade name : **KORASIT KS2**

Use category : **Preventiv treatment**

Formulation type :
Hydrosoluble
Concentrate

Users category : **Industrials**

The CTB-P+ certification attests to:

- ✓ **The efficacy of the product** to prevent the attacks of the wood (or wood-based products) by biological organisms destroying or altering its appearance.
- ✓ **The validation** of the product / process couple.
- ✓ **The maintenance of the product quality** by regular technical audits of the manufacture and the control on the production site.
- ✓ **The relevance of the technical information** from the product supplier.



Siège Social
10, rue Galilée
CS 81050 Champs sur Marne
77447 Marne la Vallée Cedex 02
www.fcba.fr

FCBA attests to the conformity of the product described above, under the conditions provided for by the general rules of the CTB mark and of the reference document of the CTB-P+ mark:

This certificate is based on constant supervision and cannot take into account the evolutions or decisions taken during its validity period.

The latest updates of the following documentation is available at www.fcba.fr and www.ctbplus.fr: The general rules of the CTB mark / the CTB-P+ mark reference document / the list of the certification holders / the lists of the certified products. This certificate only applies to products labelled with the certification mark logotype.

In case of dispute, only the French version of this certificate is the authentic text.

Certificate n°: **502-23-2083-En**

Cancel and replace certificate n° 502-22-2100

Date issue : **09/21/2023**

Expiration date : **09/20/2026**

nb of pages : **2**

Le Directeur certification
Alain HOCQUET



KORASIT KS2

CERTIFICATION PRERQUISITE	Health/ Environment acceptability according to REACH and CLP regulations	
COMPOSITION (w/w)	Copper carbonate (Cu)	19,20%
	DMPAP (quaternary ammonium compound)	10,56%

IMPREGNATION TREATMENT

CRITICAL VALUE (kg/m ³)				
Use class	Without termites		Anti termites (T)	
	Softwood	Hardwood	Softwood	Hardwood
1	7,8	7,8	10,8	10,8
2	12,1	12,1	12,1	12,1
3.1	12,1	12,1	12,1	12,1
3.2	12,1	12,1	12,1	12,1
4 (retention 4)	14,2	14,2	14,2	14,2
4 (retention 4Sp)	23,7	23,7	23,7	23,7

BIOLOGICAL RISK COVERED*

Fungi:	Brown rot White rot Soft rot
Insects:	All beetles spp (I)
Termites:	Antitermite (T) qualification

* according to EN 599-1

PROCESS

Vacuum pressure autoclave

USE DETAILS

Additifs:	Korasilon Entschäumer EMA119 (0.1 -2.0%) Korasit Farbpaste 5163 braun (pâte colorante Korasit® 5163 marron) (1.0%) Korasit Farbpaste 5215 braun (pâte colorante Korasit® 5215)(0.5%) Korasilon Entschäumer FGG 30 (0.01%)
Deep impregnation by autoclave :	Certified compliant on softwood species



THE BEST FOR YOUR WOOD.

Korasit[®] KS2

Wood preservative for application as per DIN 68800-3



1. Product description

National technical approval	Deutsches Institut für Bautechnik, Berlin (German Institute for Building Technology, Berlin)
Approval number	Z-58.1-1666
Test ratings	P, Iv, W, E
Quality monitoring	Materialprüfanstalt Eberswalde (Materials Testing Institute, Eberswalde)
Product	Water-soluble, liquid, fixative, chromate- and boron-free wood preservative based on copper complex compounds and a highly effective quaternary ammonium compound. Only for wood treatment in accordance with these instructions.
Ingredients	100 g contain: 19.20 g of copper hydroxide carbonate 15.09 g of N, N-Didecyl-N methylpoly (oxyethyl) ammonium Propionate (technical concentrate)
Effect	Protects wood from wood-destroying fungi (<i>basidiomycetes</i> and soft-rot) and insects (house longhorn beetle, woodworm). Especially effective against <i>poria</i> fungi and proven to be effective against termites. Once fixed in the wood, resistant to leaching, weather resistant and tolerated well by plants.
Properties	• liquid • water soluble • fast-fixing • highly effective In its customary concentrations of 2% to 5%, the application solution is much less corrosive for iron than water. Incompatible with non-ferrous metals.
Area of application	The wood preservative may be applied in areas assigned use classes 1, 2, 3 and 4 as per DIN 68800-3. For supporting and/or bracing timber components (e. g. wood constructions, props). Also for non-load bearing wood (e. g. formwork), and wood in gardening and landscaping (e. g. fences, palisades, stakes).
Colour	Concentrate and solution have a deep blue colour. Impregnated wood takes on an olive-green hue. The solution can be stained with Korasit [®] colour pastes.
Container size	1100 kg

2. Technical Data

Density	ca. 1.20 g/cm ³ (20 °C)
pH value	ca. 9-11 (3% working solution)

3. Processing

Application quantities Pressure impregnation

Charge application quantities	Use Class	1: a minimum of 2.5 kilograms Korasit®KS2 per m ³ of wood
	Use Class	2: a minimum of 3.5 kilograms Korasit®KS2 per m ³ of wood
	Use Class	3: a minimum of 4.5 kilograms Korasit®KS2 per m ³ of wood
	Use Class	4: a minimum of 7.0 kilograms Korasit®KS2 per m ³ of wood

The charge application quantities are relate to total wood (m³ sapwood + heartwood).

The usual application concentration is 2.4%–3.5% in aqueous solution.

Preparation of the impregnating solution

Stir Korasit®KS2 concentrate thoroughly for at least 10 minutes beforehand and also while removing it from the container. Then add the Korasit®KS2 to the desired amount of water (e.g. for a 3% solution, add 3 kg of Korasit®KS2 to 97 kg of water) while stirring.

The temperature of the impregnating solution should not exceed 30 °C and not fall below 5 °C. In case of switching products, please be sure to ask for our technical advice.

Monitoring the solution concentration

The impregnation concentration can be determined with a refractometer.

Concentration	2.0%	3.0%	4.0%	5.0%
Refractive index (n_d^{20})	1.3350	1.3360	1.3369	1.3379

A detailed table is available from us upon request. This is always created for freshly prepared solutions. Wood constituents and other substances can affect the refractive index of impregnating solutions. The contents of individual ingredients can be determined in a laboratory.

Fixation

Korasit®KS2 can be easily washed out of the wood immediately after impregnation. It is therefore important to protect the impregnated wood from rain initially. If the wood preservative is to be effective, the impregnated wood must be protected from direct weather exposure for a minimum of 2 days, and if the temperature is ≤ 5 °C, for a minimum of 7 days (not counting days with temperatures below freezing).

Non-compliance will lead to partial elution, along with a possible pollution of the ground water or surface water, and a lack of stability of the wood due to the loss of preservative.

Properties of the treated wood

Previous findings have shown that the corrosive effect for iron, steel and glass of wood which has been treated with Korasit®KS2 and dried as intended is not different from that of untreated wood.

Aftercare

Overpainting with solvent-based varnish is possible after fixation. Preliminary tests are highly recommended because of the olive green colour of the impregnated wood.

We recommend a test application as a matter of principle for opaque coats or water-based varnish.

Subsequent dry cracks can reduce the effectiveness of the protection and must hence be re-treated.

4. Special Instructions

Instructions for use and warnings

Misuse can harm your health and the environment. Wear gloves and protective clothing for handling freshly impregnated wood, plus additional eye/face protection when handling Korasit®KS2 and its solutions. Wash skin areas that have come into contact with Korasit®KS2 and its solutions thoroughly with soap and water. Do not apply using doctor blade, spraying, dipping or immersion processes! Keep out of the reach of children. Do not eat, drink or smoke while at work. Keep away from food, beverages and animal feed. In case of accident or if you feel unwell seek medical advice immediately (show the label where possible). Do not store in eating or drinking vessels or any other container intended for food or feed. Do not treat wood that is used for storing unpackaged food and feed with Korasit®KS2. When handling Korasit®KS2 and its solutions, comply with the applicable accident prevention regulations and the generally accepted rules for safety, occupational health and hygiene. Comply with all applicable governmental regulations when operating impregnation equipment.

Application restrictions

Do not treat wood that is used for beehives, sauna facilities and greenhouses. Please refer to the general building supervisory approval for more application restrictions.

Storage and environmental protection

Store and process in compliance with statutory provisions for preventing the pollution of ground and surface water, as well as air. Neither the salt concentrate nor the solutions must be permitted to reach the soil or sewage system. Ensure disposal of any unused remains or residues by specially licensed companies. Do not reuse packaging.

Only store Korasit®KS2 sealed in the original container.

At temperatures of ca. ± 0 °C, container contents may crystallize. The crystals will dissolve again without doing any harm as soon as the temperature rises again.

Product Code

HSM-W 60

EAK / AVV

03 02 01 - non-halogenated organic wood preservatives.

The general building supervisory approval must be taken into account for application in accordance with DIN 68800-3. The approval can be requested from us or downloaded online at www.kora-holzschutz.de ⇒ Products ⇒ Korasit ⇒ Korasit® KS2 as a file for downloading.

Above information has been compiled on the basis of the latest development and application technologies and includes general advice. It describes our products and provides information about their application and processing.

Since this use and processing is beyond our control, we can only accept liability for the consistent quality of our products in keeping with our general sales and delivery terms. If in doubt, please contact our technical consultants.



Korasit KS2

Version number: GHS 1.0

Date of compilation: 22.12.2020

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

1.1 Product identifier

Trade name

Korasit KS2

Registration number (REACH)

not relevant (mixture)

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

Relevant identified uses

Wood preservation product

Uses advised against

Do not use for squirting or spraying. Do not use for products which come into direct contact with the skin.

1.3 Details of the supplier of the safety data sheet

Kurt Obermeier GmbH & Co. KG
Berghäuser Str. 70
57319 Bad Berleburg
Germany

Telephone: +49 2751 5240
Telefax: +49 2751 5041
e-mail: info@obermeier.de
Website: <http://www.obermeier.de/>

e-mail (competent person)

sdb@obermeier.de

1.4 Emergency telephone number

Name	Telephone
24h	+49 (0) 70024112112 (KOR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.1O	acute toxicity (oral)	4	Acute Tox. 4	H302
3.1I	acute toxicity (inhal.)	4	Acute Tox. 4	H332
3.2	skin corrosion/irritation	1	Skin Corr. 1	H314
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.8R	specific target organ toxicity - single exposure (respiratory tract irritation)	3	STOT SE 3	H335
4.1A	hazardous to the aquatic environment - acute hazard	1	Aquatic Acute 1	H400
4.1C	hazardous to the aquatic environment - chronic hazard	1	Aquatic Chronic 1	H410

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

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

- Signal word danger

- Pictograms

GHS05, GHS07, GHS09



- Hazard statements

H302+H332 Harmful if swallowed or if inhaled.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.

- Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/....
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor/...
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container to recovery or disposal facilities.

- Hazardous ingredients for labelling

Monoethanolamin 99 %; N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate

2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Specific Conc. Limits	M-Factors
Monoethanolamin 99 %	CAS No 141-43-5 EC No 205-483-3 Index No 603-030-00-8 REACH Reg. No 01-2119486455-28-xxxx	25 – < 50	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Corr. 1B / H314 Eye Dam. 1 / H318 STOT SE 3 / H335 Aquatic Chronic 3 / H412	STOT SE 3; H335: C ≥ 5 %	

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Specific Conc. Limits	M-Factors
copper(II) carbonate-copper(II) hydroxide (1:1)	CAS No 12069-69-1 EC No 235-113-6 Index No 029-020-00-8 REACH Reg. No 01-2119513711-50-xxxx	10 – < 25	Acute Tox. 4 / H302 Acute Tox. 4 / H332 Eye Irrit. 2 / H319 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		M-factor (acute) = 10.0
N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate	CAS No 94667-33-1 EC No 619-057-3 REACH Reg. No 01-2119950327-36-xxxx	10 – < 25	Acute Tox. 4 / H302 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		M-factor (acute) = 10.0
ethanediol	CAS No 107-21-1 EC No 203-473-3 Index No 603-027-00-1 REACH Reg. No 01-2119456816-28-xxxx	3 – < 5	Acute Tox. 4 / H302 STOT RE 2 / H373		

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. Remove victim out of the danger area. Do not leave affected person unattended. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of accident or if you feel unwell, seek medical advice immediately (show the label or safety data sheet where possible). Provide fresh air. In case of respiratory tract irritation, consult a physician.

Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.

Following 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.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage. Harmful if swallowed. Harmful if inhaled. May cause respiratory irritation.

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), Alcohol resistant foam, Water spray, Water mist, BC-powder, Sand

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture**Hazardous combustion products**

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire toxic gases may be formed. In case of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Collect contaminated firefighting water separately.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Remove persons to safety.

For emergency responders

Use personal protection equipment. Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Prevent spread over a wide area (e.g. by containment or oil barriers). Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up**Advice on how to contain a spill**

Take up mechanically, Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation
- Use only in well-ventilated areas. Do not breathe gas/fumes/vapour/spray.

Advice on general occupational hygiene

Avoid contact with skin and eyes. Wash hands after use. Keep away from food, drink and animal feedingstuffs. Never place chemicals in containers that are normally used for food or drink.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Protect against external exposure, such as

Frost

- Ventilation requirements

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

Storage class (LGK)

TRGS 510

LGK 8 B (non-combustible corrosive materials)

7.3 Specific end use(s)

Industry or sector specific available guidance(s)

GISCODE: HSW40 Holzschutzmittel, wasserbasiert, ätzend, Kupferverbindungen.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
DE	ethanediol	107-21-1	AGW	10	26	20	52			va, H, Y	TRGS 900
DE	ethylene glycol	107-21-1	MAK	10	26	20	52			va	DFG
DE	2-aminoethanol	141-43-5	MAK	0,2	0,51	0,2	0,51			va	DFG
DE	2-aminoethanol	141-43-5	AGW	0,2	0,5	0,2	0,5			va, H, Sh, Y	TRGS 900
EU	ethylene glycol	107-21-1	IOELV	20	52	40	104				2000/39/EC
EU	2-aminoethanol	141-43-5	IOELV	1	2,5	3	7,6				2006/15/EC

Notation

Ceiling-C

H

Sh

STEL

ceiling value is a limit value above which exposure should not occur

absorbed through the skin

skin-sensitising substances

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

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Notation

TWA time-weighted average (long-term exposure limit); measured or calculated in relation to a reference period of 8 hours
time-weighted average (unless otherwise specified)
va as vapours and aerosols
Y a risk of developmental toxicity does not need to be expected if the occupational exposure limit value and the biological limit value (BGW) are adhered to

Relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Monoethanolamin 99 %	141-43-5	DNEL	3,3 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Monoethanolamin 99 %	141-43-5	DNEL	1 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
copper(II) carbonate-copper(II) hydroxide (1:1)	12069-69-1	DNEL	1 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
copper(II) carbonate-copper(II) hydroxide (1:1)	12069-69-1	DNEL	1 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
copper(II) carbonate-copper(II) hydroxide (1:1)	12069-69-1	DNEL	137 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate	94667-33-1	DNEL	0,5 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate	94667-33-1	DNEL	0,7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
ethanediol	107-21-1	DNEL	35 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
ethanediol	107-21-1	DNEL	106 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Monoethanolamin 99 %	141-43-5	PNEC	0,085 mg/l	aquatic organisms	freshwater	short-term (single instance)
Monoethanolamin 99 %	141-43-5	PNEC	0,009 mg/l	aquatic organisms	marine water	short-term (single instance)
Monoethanolamin 99 %	141-43-5	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Monoethanolamin 99 %	141-43-5	PNEC	0,434 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Monoethanolamin 99 %	141-43-5	PNEC	0,043 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Monoethanolamin 99 %	141-43-5	PNEC	0,037 mg/kg	terrestrial organisms	soil	short-term (single instance)

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Relevant PNECs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
copper(II) carbonate-copper(II) hydroxide (1:1)	12069-69-1	PNEC	7,8 µg/l	aquatic organisms	freshwater	short-term (single instance)
copper(II) carbonate-copper(II) hydroxide (1:1)	12069-69-1	PNEC	5,2 µg/l	aquatic organisms	marine water	short-term (single instance)
copper(II) carbonate-copper(II) hydroxide (1:1)	12069-69-1	PNEC	230 µg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
copper(II) carbonate-copper(II) hydroxide (1:1)	12069-69-1	PNEC	87 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
copper(II) carbonate-copper(II) hydroxide (1:1)	12069-69-1	PNEC	676 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
copper(II) carbonate-copper(II) hydroxide (1:1)	12069-69-1	PNEC	65 mg/kg	terrestrial organisms	soil	short-term (single instance)
N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate	94667-33-1	PNEC	0,001 mg/l	aquatic organisms	freshwater	short-term (single instance)
N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate	94667-33-1	PNEC	0,118 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate	94667-33-1	PNEC	5,3 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate	94667-33-1	PNEC	2,83 mg/kg	terrestrial organisms	soil	short-term (single instance)
ethanediol	107-21-1	PNEC	10 mg/l	aquatic organisms	freshwater	short-term (single instance)
ethanediol	107-21-1	PNEC	1 mg/l	aquatic organisms	marine water	short-term (single instance)
ethanediol	107-21-1	PNEC	199,5 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
ethanediol	107-21-1	PNEC	37 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
ethanediol	107-21-1	PNEC	3,7 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
ethanediol	107-21-1	PNEC	1,53 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

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Appropriate engineering controls

Open windows, door, to allow sufficient ventilation. If this is not possible employ a fan to increase air exchange.

Individual protection measures (personal protective equipment)

Eye/face protection

Use safety goggle with side protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned together with the supplier of these gloves.

- Type of material

IIR: isobutene-isoprene (butyl) rubber, NBR: acrylonitrile-butadiene rubber

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling. Chemikalienschutzhandschuhe dürfen nur in Ausnahmefällen länger als 4 Stunden getragen werden. Bereits regelmäßiges Schutzhandschuhtragen > 2 Stunden (sog. Feuchtarbeit) verpflichtet den Arbeitgeber, ein Angebot arbeitsmedizinischer Vorsorgeuntersuchungen an den Arbeitnehmer zu richten. DGUV Information 212-007 (Chemikalienschutzhandschuhe): <http://publikationen.dguv.de/dguv/pdf/10002/i-868.pdf>. Hautschutzplan z.B. für Schädlingsbekämpfer der Berufsgenossenschaft für Gesundheit und Wohlfahrtspflege (bgw): https://www.bgw-online.de/DE/Medien-Service/Medien-Center/Medientypen/BGW-Broschueren/Hautschutzplaene/BGW06-13-150_Hautschutzplan-Schaedlingsbekaempfung.html.

Respiratory protection

Usually no personal respirative protection necessary, Respiratory protection necessary at: insufficient ventilation, exceeding exposure limit values, aerosol or mist formation, filtering device (EN 147), powered filtering device (EN 147), type: A (against organic gases and vapours with a boiling point of > 65 °C, colour code: Brown)

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Colour	blue
Odour	light

Other safety parameters

pH (value)	ca. 9,1 – 10,9 (in aqueous solution: 3 % (w/w))
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	not determined
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)

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Explosive limits	not determined
Vapour pressure	not determined
Density	ca. 1,2 g/cm ³ at 25 °C
Vapour density	not relevant

Solubility(ies)

- Water solubility	miscible in any proportion
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Partition coefficient

- n-octanol/water (log KOW)	not determined
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Auto-ignition temperature	not determined
Viscosity	not determined
Explosive properties	none
Oxidising properties	none

9.2 Other information	there is no additional information
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SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Harmful if swallowed. Harmful if inhaled.

- Acute toxicity estimate (ATE)

Oral 1,125 mg/kg
Inhalation: dust/mist 2,21 mg/l/4h

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
Monoethanolamin 99 %	141-43-5	oral	1.089 mg/kg
Monoethanolamin 99 %	141-43-5	dermal	1.100 mg/kg
Monoethanolamin 99 %	141-43-5	inhalation: vapour	11 mg/l/4h
copper(II) carbonate-copper(II) hydroxide (1:1)	12069-69-1	oral	500 mg/kg
copper(II) carbonate-copper(II) hydroxide (1:1)	12069-69-1	inhalation: dust/mist	1,5 mg/l/4h
N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate	94667-33-1	oral	972 mg/kg
ethanediol	107-21-1	oral	500 mg/kg

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

The classification criteria for these hazard classes are not met.

Germ cell mutagenicity

The classification criteria for this hazard class are not met.

Carcinogenicity

The classification criteria for this hazard class are not met.

Reproductive toxicity

The classification criteria for this hazard class are not met.

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

The classification criteria for this hazard class are not met.

Aspiration hazard

The classification criteria for this hazard class are not met.

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SECTION 12: Ecological information

12.1 Toxicity

Acc. to 1272/2008/EC: Very toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Monoethanolamin 99 %	141-43-5	LC50	349 mg/l	fish	96 h
Monoethanolamin 99 %	141-43-5	EC50	65 mg/l	aquatic invertebrates	48 h
Monoethanolamin 99 %	141-43-5	ErC50	2,8 mg/l	algae	72 h
copper(II) carbonate-copper(II) hydroxide (1:1)	12069-69-1	LC50	0,048 mg/l	rainbow trout (Oncorhynchus mykiss)	96 h
copper(II) carbonate-copper(II) hydroxide (1:1)	12069-69-1	EC50	0,0229 mg/l	daphnia magna	48 h
copper(II) carbonate-copper(II) hydroxide (1:1)	12069-69-1	EC50	0,0236 mg/l	algae	72 h
N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate	94667-33-1	LC50	0,52 mg/l	fish	96 h
N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate	94667-33-1	EbC50	0,15 mg/l	algae	72 h
N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate	94667-33-1	ErC50	0,34 mg/l	algae	72 h
ethanediol	107-21-1	LC50	>72.860 mg/l	fish	96 h
ethanediol	107-21-1	EC50	>100 mg/l	aquatic invertebrates	48 h
ethanediol	107-21-1	ErC50	<13.000 mg/l	algae	96 h

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Monoethanolamin 99 %	141-43-5	EC50	2,5 mg/l	aquatic invertebrates	21 d
N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate	94667-33-1	LC50	81 µg/l	fish	34 d
N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate	94667-33-1	EC50	≤0,056 mg/l	aquatic invertebrates	21 d
ethanediol	107-21-1	LC50	>1.500 mg/l	fish	28 d
ethanediol	107-21-1	EC50	>15.000 mg/l	aquatic invertebrates	21 d

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12.2 Persistence and degradability

Degradability of components of the mixture						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Monoethanolamin 99 %	141-43-5	DOC removal	>90 %	21 d		ECHA
N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate	94667-33-1	carbon dioxide generation	1,6 %	1 d		ECHA
ethanediol	107-21-1	DOC removal	90 – 100 %	10 d		ECHA

12.3 Bioaccumulative potential

The product has not been tested.

Bioaccumulative potential of components of the mixture				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Monoethanolamin 99 %	141-43-5	2,3	-2,3 (25 °C)	
N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate	94667-33-1	38		
ethanediol	107-21-1		-1,36	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Endocrine disrupting potential

None of the ingredients are listed.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Consult the appropriate local waste disposal expert about waste disposal.

Waste treatment-relevant information

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

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Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

- | | |
|--|--|
| 14.1 UN number | 1760 |
| 14.2 UN proper shipping name | CORROSIVE LIQUID, N.O.S. |
| Technical name (hazardous ingredients) | N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate, Monoethanolamin 99 % |
| 14.3 Transport hazard class(es) | |
| Class | 8 (corrosive substances) (environmentally hazardous) |
| 14.4 Packing group | II (substance presenting medium danger) |
| 14.5 Environmental hazards | hazardous to the aquatic environment |
| Environmentally hazardous substance (aquatic environment) | copper(II) carbonate-copper(II) hydroxide (1:1) |
| 14.6 Special precautions for user | |
| | Provisions for dangerous goods (ADR) should be complied within the premises. |
| 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code | |
| | The cargo is not intended to be carried in bulk. |

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number	1760
Proper shipping name	CORROSIVE LIQUID, N.O.S.
Class	8
Classification code	C9
Packing group	II
Danger label(s)	8, fish and tree
 	
Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	E
Hazard identification No	80

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International Maritime Dangerous Goods Code (IMDG)

UN number 1760
Proper shipping name CORROSIVE LIQUID, N.O.S.
Class 8
Marine pollutant yes (hazardous to the aquatic environment)
Packing group II
Danger label(s) 8, fish and tree



Special provisions (SP) 274
Excepted quantities (EQ) E2
Limited quantities (LQ) 1 L
EmS F-A, S-B
Stowage category B
Segregation group 18 - Alkalis

International Civil Aviation Organization (ICAO-IATA/DGR)

UN number 1760
Proper shipping name Corrosive liquid, n.o.s.
Class 8
Environmental hazards yes (hazardous to the aquatic environment)
Packing group II
Danger label(s) 8



Special provisions (SP) A3
Excepted quantities (EQ) E2
Limited quantities (LQ) 0,5 L

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII)			
Name of substance	Name acc. to inventory	CAS No	No
Korasil KS2	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		3

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

none of the ingredients are listed

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Seveso Directive

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
E1	environmental hazards (hazardous to the aquatic environment, cat. 1)	100 200	56)

Notation

56) hazardous to the Aquatic Environment in category Acute 1 or Chronic 1

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

none of the ingredients are listed

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Water Framework Directive (WFD)

List of pollutants (WFD)			
Name of substance	CAS No	Listed in	Remarks
copper(II) carbonate-copper(II) hydroxide (1:1)		A)	

Legend

A) Indicative list of the main pollutants

Regulation 98/2013/EU on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation 111/2005/EC laying down rules for the monitoring of trade between the Community and third countries in drug precursors

none of the ingredients are listed

National regulations (Germany)

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK (water 3 highly hazardous to water hazard class)

Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	organic substances	class I	≥ 25 wt%	0,1 kg/h	20 mg/m³	3)
5.2.5	organic substances		10 – < 25 wt%	0,5 kg/h	50 mg/m³	3)

Notation

3) a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

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Industry or sector specific available guidance(s)

BP 1081 (Vorbeugender Holzschutz: Grundmaßnahmen)
 BP 1082 (Bekämpfender Holzschutz: Grundmaßnahmen) nur bei bekämpfenden Holzschutzmitteln
 BP 2081 (Holzschutzmittel: Streichen, Rollen, Spachteln und Wischen)
 BP 2082 (Holzschutzmittel: Bekämpfender Holzschutz in Sprühanwendungen)
 BP 2083 (Anwendung von Holzschutzmitteln in offenen Anlagen)
 BP 2084 (Anwendung von Holzschutzmitteln in geschlossenen Anlagen)
<https://www.baua.de/DE/Themen/Arbeitsgestaltung-im-Betrieb/Gefahrstoffe/EMKG/EMKG-Schutzleitfaeden.html>
 DGUV Information 209-043 (Holzschutzmittel Handhabung und sicheres Arbeiten)
 TRGS 401: Gefährdung durch Hautkontakt, Ermittlung - Beurteilung - Maßnahmen ist zu beachten
 TRGS 553 (Holzstaub): Bei der Weiterverarbeitung von behandeltem Holz (z.B. Zuschneiden, Schleifen) ist der Holzstaubgrenzwert von 2 mg/m³ gemäß TRGS 553 einzuhalten.

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
2006/15/EC	Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
AGW	Workplace exposure limit
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DFG	Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EbC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control

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Abbr.	Descriptions of used abbreviations
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LGK	Lagerklasse (storage class according to TRGS 510, Germany)
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure

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Abbr.	Descriptions of used abbreviations
STOT SE	Specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
TRGS 900	Arbeitsplatzgrenzwerte (TRGS 900)
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Internal code

OBERMEIERIMP 4302124-00