OBERMEIER

Safety Data Sheet (According to Regulation (EC) No. 1907/2006 (REACH))

KORASIT KS2

Version number: GHS 3.0
Replaces version of: 21.04.2023 (GHS 2)

Revision: 29.05.2024

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)
Authorisation number Biocidal Products Regulation (BPR)	DE-0032130-08

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

Relevant identified uses	Wood preservation product Professional use Industrial use
Uses advised against	Do not use for squirting or spraying. Do not use for products which come into direct contact with the skin. Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet

Kurt Obermeier GmbH
Berghäuser Str. 70
57319 Bad Berleburg
Germany

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

e-mail (competent person) sdb@obermeier.de

1.4 Emergency telephone number

Name	Telephone
24h	+49 (0) 70024112112 (KOR) ; +1 872 5888271 (KOR)

1.4.4 Language(s) of the phone service multilingual information

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	1B	Skin Corr. 1B	H314
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318

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Section	Hazard class	Category	Hazard class and category	Hazard statement
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

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.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face 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.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

- Hazardous ingredients for labelling: 2-aminoethanol; N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate; copper hydroxide carbonate; ethanediol

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

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
2-aminoethanol	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 %	
copper hydroxide carbonate	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 M-factor (chronic) = 10
N,N-Didecyl-N-methyl-poly(oxyethyl)ammonium-propionate	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

Name of substance	Identifier	Wt%	Classification acc. to GHS	Specific Conc. Limits	M-Factors
ethanediol	CAS No 107-21-1 EC No 203-473-3 Index No 603-027-00-1 REACH Reg. No 01-2119456816-28-xxxx	1 – < 10	Acute Tox. 4 / H302 STOT RE 2 / H373		

Hazardous ingredients: **ATE**

Name of substance	ATE	Exposure route
2-aminoethanol	1.515 $^{mg}/_{kg}$ 1.100 $^{mg}/_{kg}$ 11 $^{mg}/_{l}$/4h 1,5 $^{mg}/_{l}$/4h	oral dermal inhalation: vapour inhalation: dust/mist
copper hydroxide carbonate	500 $^{mg}/_{kg}$ 1,2 $^{mg}/_{l}$/4h	oral inhalation: dust/mist
N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate	972 $^{mg}/_{kg}$	oral
ethanediol	500 $^{mg}/_{kg}$	oral

Remarks

For full text of abbreviations: see SECTION 16

Substance Identity Name under EU REACH, UK REACH and GB BPR:
Poly(oxy-1,2-ethanediyl), .alpha.- [2-(didecylmethylammonio)ethyl]- .omega.-hydroxy-, propanoate (salt) (Bardap 26) (CAS-No. 94667-33-1).

Substance Identity Name under EU BPR:
reaction mass of N,N-didecyl-N-(2-hydroxyethyl)-N-methylammonium propionate and N,N-didecyl-N-(2-(2-hydroxyethoxy)ethyl)-N-methylammonium propionate and N,N-didecyl-N-(2-(2-(2-hydroxyethoxy)ethoxy)ethyl)-N-methylammonium propionate (Substance has no CAS-No.).

The substance is also commonly abbreviated as DMPAP.

The various substance identity definitions have the same chemical nature/composition.

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. Call a physician immediately.

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 (NOx), 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.

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. Take off immediately all contaminated clothing.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool, well-ventilated place. 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

Keep only in original container. Protect containers against damage.

Storage class (LGK)
TRGS 510

LGK 8 B (non-combustible corrosive materials (except only corrosive to metals))

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)

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	Name of substance	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
DE	ethanediol	ethanediol	107-21-1	AGW	10	26	20	52			va, H, Y	TRGS 900
DE	ethylene glycol	ethanediol	107-21-1	MAK	10	26	20	52			va, H	DFG

Occupational exposure limit values (Workplace Exposure Limits)

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

Notation

Ceiling-C	ceiling value is a limit value above which exposure should not occur
H	absorbed through the skin
Sh	skin-sensitising substances
STEL	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)
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

Relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
2-aminoethanol	141-43-5	DNEL	3,3 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
2-aminoethanol	141-43-5	DNEL	1 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-aminoethanol	141-43-5	DNEL	2 mg/m³	human, inhalatory	consumer (private households)	chronic - local effects
2-aminoethanol	141-43-5	DNEL	0,24 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
2-aminoethanol	141-43-5	DNEL	3,75 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
copper hydroxide carbonate	12069-69-1	DNEL	1 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
copper hydroxide carbonate	12069-69-1	DNEL	1 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
copper hydroxide carbonate	12069-69-1	DNEL	137 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
copper hydroxide carbonate	12069-69-1	DNEL	0,041 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
copper hydroxide carbonate	12069-69-1	DNEL	0,082 mg/kg bw/day	human, oral	consumer (private households)	acute - systemic effects

Relevant DNELs of components of the mixture						
Name of substance	**CAS No**	**Endpoint**	**Threshold level**	**Protection goal, route of exposure**	**Used in**	**Exposure time**
N,N-Didecyl-N-methyl-poly(oxyethyl)ammonium-propionate	94667-33-1	DNEL	0,5 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
N,N-Didecyl-N-methyl-poly(oxyethyl)ammonium-propionate	94667-33-1	DNEL	0,7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
N,N-Didecyl-N-methyl-poly(oxyethyl)ammonium-propionate	94667-33-1	DNEL	0,12 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
N,N-Didecyl-N-methyl-poly(oxyethyl)ammonium-propionate	94667-33-1	DNEL	0,35 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
N,N-Didecyl-N-methyl-poly(oxyethyl)ammonium-propionate	94667-33-1	DNEL	0,35 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
ethanediol	107-21-1	DNEL	35 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
ethanediol	107-21-1	DNEL	106 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
ethanediol	107-21-1	DNEL	7 mg/m³	human, inhalatory	consumer (private households)	chronic - local effects
ethanediol	107-21-1	DNEL	53 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects

Relevant PNECs of components of the mixture

Relevant PNECs of components						
Name of substance	**CAS No**	**Endpoint**	**Threshold level**	**Organism**	**Environmental compartment**	**Exposure time**
2-aminoethanol	141-43-5	PNEC	0,085 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-aminoethanol	141-43-5	PNEC	0,009 mg/l	aquatic organisms	marine water	short-term (single instance)
2-aminoethanol	141-43-5	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-aminoethanol	141-43-5	PNEC	0,434 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-aminoethanol	141-43-5	PNEC	0,043 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-aminoethanol	141-43-5	PNEC	0,037 mg/kg	terrestrial organisms	soil	short-term (single instance)
copper hydroxide carbonate	12069-69-1	PNEC	7,8 µg/l	aquatic organisms	freshwater	short-term (single instance)

Relevant PNECs of components

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
copper hydroxide carbonate	12069-69-1	PNEC	5,2 µg/l	aquatic organisms	marine water	short-term (single instance)
copper hydroxide carbonate	12069-69-1	PNEC	230 µg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
copper hydroxide carbonate	12069-69-1	PNEC	87 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
copper hydroxide carbonate	12069-69-1	PNEC	676 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
copper hydroxide carbonate	12069-69-1	PNEC	65 mg/kg	terrestrial organisms	soil	short-term (single instance)
N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate	94667-33-1	PNEC	0,001 mg/l	aquatic organisms	freshwater	short-term (single instance)
N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate	94667-33-1	PNEC	0,118 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate	94667-33-1	PNEC	5,3 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
N,N-Didecyl-N-methyl-poly(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.

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

- Material thickness

0,4 mm

- Breakthrough times of the glove material

>480 minutes (permeation: level 6)

- 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, full face mask/half mask/quarter mask (EN 136/140), type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown),
Die in der DGUV Regel 112-190 (Benutzung von Atemschutzgeräten) geregelten Tragezeitbegrenzungen sind einzuhalten.

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

Physical state	liquid
Colour	blue
Odour	light
Melting point/freezing point	not determined, not safety-relevant
Boiling point or initial boiling point and boiling range	not determined, not safety-relevant
Flammability	non-combustible
Lower and upper explosion limit	not determined, Shall not be classified as explosive

Flash point	not determined
Auto-ignition temperature	not determined
Decomposition temperature	not safety-relevant
pH (value)	9,1 – 10,9 (in aqueous solution: 3 % ($^{w}/_{w}$))

Solubility(ies)

Water solubility	miscible in any proportion

Partition coefficient

Partition coefficient n-octanol/water (log value)	not determined

Vapour pressure	not determined, not safety-relevant

Density and/or relative density

Density	1,2 $^{g}/_{cm^3}$ at 25 °C
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)

9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics

Miscibility	Completely miscible with water.

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.

SECTION 11: Toxicological information

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

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 1.252 $^{mg}/_{kg}$
Inhalation: dust/mist 2,21 $^{mg}/_{l}$/4h

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
2-aminoethanol	141-43-5	oral	1.515 $^{mg}/_{kg}$
2-aminoethanol	141-43-5	dermal	1.100 $^{mg}/_{kg}$
2-aminoethanol	141-43-5	inhalation: vapour	11 $^{mg}/_{l}$/4h
2-aminoethanol	141-43-5	inhalation: dust/mist	1,5 $^{mg}/_{l}$/4h
copper hydroxide carbonate	12069-69-1	oral	500 $^{mg}/_{kg}$
copper hydroxide carbonate	12069-69-1	inhalation: dust/mist	1,2 $^{mg}/_{l}$/4h
N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropi-onate	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.

11.2 Information on other hazards

There is no additional information.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

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

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
2-aminoethanol	141-43-5	LC50	349 mg/l	fish	96 h
2-aminoethanol	141-43-5	EC50	65 mg/l	aquatic invertebrates	48 h
2-aminoethanol	141-43-5	ErC50	2,8 mg/l	algae	72 h
copper hydroxide carbonate	12069-69-1	LC50	0,048 mg/l	rainbow trout (Oncorhynchus mykiss)	96 h
copper hydroxide carbonate	12069-69-1	EC50	0,0229 mg/l	daphnia magna	48 h
copper hydroxide carbonate	12069-69-1	EC50	0,0236 mg/l	algae	72 h
N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate	94667-33-1	LC50	0,52 mg/l	fish	96 h
N,N-Didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate	94667-33-1	EbC50	0,15 mg/l	algae	72 h
N,N-Didecyl-N-methyl-poly(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					
Name of substance	**CAS No**	**Endpoint**	**Value**	**Species**	**Exposure time**
2-aminoethanol	141-43-5	EC50	2,5 $^{mg}/_{l}$	aquatic invertebrates	21 d
N,N-Didecyl-N-methyl-poly(oxyethyl)ammoni-umpropionate	94667-33-1	LC50	81 $^{µg}/_{l}$	fish	34 d
N,N-Didecyl-N-methyl-poly(oxyethyl)ammoni-umpropionate	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

12.2 Persistence and degradability

Degradability of components						
Name of sub-stance	**CAS No**	**Process**	**Degradation rate**	**Time**	**Method**	**Source**
2-aminoethanol	141-43-5	DOC removal	>90 %	21 d		ECHA
N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpro-pionate	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				
Name of substance	**CAS No**	**BCF**	**Log KOW**	**BOD5/COD**
2-aminoethanol	141-43-5	2,3	-2,3 (25 °C)	
N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropi-onate	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

Dieses Gemisch enthält keine Stoffe ≥ 0,1%, die als PBT- oder vPvB-Stoff beurteilt werden.

12.6 Endocrine disrupting properties

None of the ingredients are listed

12.7 Other adverse effects

Data are not available.

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/packagings

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.

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 or ID number**	1760
	ADR/RID/ADN	UN 1760
	IMDG-Code	UN 1760
	ICAO-TI	UN 1760
14.2	**UN proper shipping name**	
	ADR/RID/ADN	CORROSIVE LIQUID, N.O.S.
	IMDG-Code	CORROSIVE LIQUID, N.O.S.
	ICAO-TI	Corrosive liquid, n.o.s.
	Technical name (hazardous ingredients)	N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate, 2-aminoethanol
14.3	**Transport hazard class(es)**	
	ADR/RID/ADN	8
	IMDG-Code	8
	ICAO-TI	8
14.4	**Packing group**	
	ADR/RID/ADN	II
	IMDG-Code	II
	ICAO-TI	II
14.5	**Environmental hazards**	hazardous to the aquatic environment
	Environmentally hazardous substance (aquatic environment)	copper hydroxide carbonate

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

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) - Additional information

Classification code	C9
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

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant	yes (hazardous to the aquatic environment) (copper hydroxide carbonate)
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) - Additional information

Environmental hazards	yes (hazardous to the aquatic environment)
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
Korasit KS2	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		3
2-aminoethanol	substances in tattoo inks and permanent make-up		75
copper hydroxide carbonate	substances in tattoo inks and permanent make-up		75
N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate	substances in tattoo inks and permanent make-up		75

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

None of the ingredients are listed

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 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation 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 hydroxide carbonate		a)	

Legend
a) Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation on drug precursors

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

Regulation 528/2012/EU concerning the making available on the market and use of biocidal products

Biocidal product. Product-type 8: Wood preservatives.

National regulations (Germany)

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

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

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 $^{mg}/_{m^3}$	3)
5.2.5	organic substances		10 – < 25 wt%	0,5 $^{kg}/_{h}$	50 $^{mg}/_{m^3}$	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)

15.2 Chemical safety assessment

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

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)
1.1		Authorisation number Biocidal Products Regulation (BPR): DE-0032130-08
1.2	Relevant identified uses: Wood preservation product	Relevant identified uses: Wood preservation product Professional use Industrial use

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)
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: www.obermeier.de	Details of the supplier of the safety data sheet: Kurt Obermeier GmbH Berghäuser Str. 70 57319 Bad Berleburg Germany Telephone: +49 2751 5240 Telefax: +49 2751 5041 e-mail: info@obermeier.de Website: www.obermeier.de
1.4.4		Language(s) of the phone service: multilingual information
2.2		- Precautionary statements: change in the listing (table)
2.2	- Hazardous ingredients for labelling: 2-aminoethanol; N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate; copper(II) carbonate-copper(II) hydroxide (1:1); ethanediol	- Hazardous ingredients for labelling: 2-aminoethanol; N,N-Didecyl-N-methylpoly(oxyethyl)ammoniumpropionate; copper hydroxide carbonate; ethanediol
2.3	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance in a concentration of ≥ 0,1%.	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.
2.3	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0,1%.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.
3.2		Hazardous ingredients: ATE
3.2		Hazardous ingredients: ATE: change in the listing (table)
3.2		Remarks: For full text of abbreviations: see SECTION 16 Substance Identity Name under EU REACH, UK REACH and GB BPR: Poly(oxy-1,2-ethanediyl), .alpha.- [2-(didecylmethylammonio)ethyl]- .omega.-hydroxy-, propanoate (salt) (Bardap 26) (CAS-No. 94667-33-1). Substance Identity Name under EU BPR: reaction mass of N,N-didecyl-N-(2-hydroxyethyl)-N-methylammonium propionate and N,N-didecyl-N-(2-(2-hydroxyethoxy)ethyl)-N-methylammonium propionate and N,N-didecyl-N-(2-(2-(2-hydroxyethoxy)ethoxy)ethyl)-N-methylammonium propionate (Substance has no CAS-No.). The substance is also commonly abbreviated as DMPAP. The various substance identity definitions have the same chemical nature/composition.
4.1	Following ingestion: Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.	Following ingestion: Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a physician immediately.

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)
7.1	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.	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. Take off immediately all contaminated clothing.
7.2	- Packaging compatibilities: Only packagings which are approved (e.g. acc. to ADR) may be used.	- Packaging compatibilities: Keep only in original container. Protect containers against damage.
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)
8.1		Relevant DNELs of components of the mixture: change in the listing (table)
8.1		Relevant PNECs of components: change in the listing (table)
8.2		Material thickness: 0,4 mm
8.2		Breakthrough times of the glove material: >480 minutes (permeation: level 6)
8.2	Respiratory protection: Respiratory protection necessary at: insufficient ventilation, exceeding exposure limit values, aerosol or mist formation, full face mask/half mask/quarter mask (EN 136/140), type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White)	Respiratory protection: Usually no personal respirative protection necessary, Respiratory protection necessary at: insufficient ventilation, exceeding exposure limit values, aerosol or mist formation, full face mask/half mask/quarter mask (EN 136/140), type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown), Die in der DGUV Regel 112-190 (Benutzung von Atemschutzgeräten) geregelten Tragezeitbegrenzungen sind einzuhalten.
9.1	Melting point/freezing point: not determined	Melting point/freezing point: not determined, not safety-relevant
9.1	Boiling point or initial boiling point and boiling range: not determined	Boiling point or initial boiling point and boiling range: not determined, not safety-relevant
9.1	Lower and upper explosion limit: not determined	Lower and upper explosion limit: not determined, Shall not be classified as explosive
9.1	Flash point: not applicable	Flash point: not determined
9.1	Decomposition temperature: not relevant	Decomposition temperature: not safety-relevant
9.1	pH (value): ca. 9,1 – 10,9 (in aqueous solution: 3 % ($^{w}/_{w}$))	pH (value): 9,1 – 10,9 (in aqueous solution: 3 % ($^{w}/_{w}$))
9.1	Vapour pressure: not determined	Vapour pressure: not determined, not safety-relevant
9.1	Density: ca. 1,2 $^{g}/_{cm^3}$ at 25 °C	Density: 1,2 $^{g}/_{cm^3}$ at 25 °C

Indication of changes (revised safety data sheet)		
Section	**Former entry (text/value)**	**Actual entry (text/value)**
11.1		Acute toxicity estimate (ATE) of components: change in the listing (table)
11.2		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.
12.1		Aquatic toxicity (acute) of components: change in the listing (table)
12.3	Bioaccumulative potential: Data are not available.	Bioaccumulative potential: The product has not been tested.
12.5	Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of ≥ 0,1%.	Results of PBT and vPvB assessment: Dieses Gemisch enthält keine Stoffe ≥ 0,1%, die als PBT- oder vPvB-Stoff beurteilt werden.
12.6	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0,1%.	Endocrine disrupting properties: None of the ingredients are listed
15.1		Dangerous substances with restrictions (REACH, Annex XVII): change in the listing (table)
15.1		List of pollutants (WFD): change in the listing (table)
15.1		Regulation 528/2012/EU concerning the making available on the market and use of biocidal products: Biocidal product. Product-type 8: Wood preservatives.
16		Abbreviations and acronyms: change in the listing (table)

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 relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
ADR/RID/ADN	Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)
AGW	Workplace exposure limit

Abbr.	Descriptions of used abbreviations
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
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)
ED	Endocrine disruptor
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
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code

Abbr.	Descriptions of used abbreviations
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
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
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 2020/878/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 section 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