

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

1.1 Product identifier

Trade name **Quattrotabs Premium 200 g two-phase**
 SDS-Ref 07515

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

Relevant identified uses
 Water treatment chemical
 Professional use
 Consumer use (private households)

1.3 Details of the supplier of the safety data sheet

Steinbach International GmbH
 L. Steinbach Platz 1
 4311 Schwertberg
 Austria
 Telephone: +43 7262 61431 1000
 e-Mail: info@steinbach-group.com
 e-Mail (competent person): sdb@steinbach-group.com

1.4 Emergency telephone number

Country	Name	Postal code/city	Telephone	Opening hours
Austria	Vergiftungsinformationszentrale	1090 Wien	+43 1 406 4343 (24h)	
United Kingdom	National Poisons Information Service		111 (24h)	

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
3.3	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

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



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- Hazard statements
 - H302 Harmful if swallowed.
 - H318 Causes serious eye damage.
 - H335 May cause respiratory irritation.
 - H410 Very toxic to aquatic life with long lasting effects.
- Precautionary statements
 - P101 If medical advice is needed, have product container or label at hand.
 - P102 Keep out of reach of children.
 - P271 Use only outdoors or in a well-ventilated area.
 - P280 Wear eye protection/face protection.
 - P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 - 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.
 - P501 Dispose of contents/container to hazardous or special waste collection point.
- Supplemental hazard information
 - EUH031 Contact with acids liberates toxic gas.
 - EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).
- Hazardous ingredients for labelling
 - Symclosene; Aluminium sulphate; Troclosene sodium, dihydrate

2.3 Other hazards

Endocrine disrupting properties

The mixture contains substance(s) with an endocrine disrupting potential.



SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures



Description of the mixture

Name of substance	Identifier	Classification acc. to GHS	Pictograms	Wt%
Symclosene	CAS No 87-90-1 EC No 201-782-8 Index No 613-031-00-5 REACH Reg. No 01-2120767978-27-xxxx	Ox. Sol. 2 / H272 Acute Tox. 4 / H302 Eye Irrit. 2 / H319 STOT SE 3 / H335 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		75 – < 90
Troclosene sodium, dihydrate	CAS No 51580-86-0 EC No 220-767-7 Index No 613-030-01-7 REACH Reg. No 01-2119489371-33-xxxx	Acute Tox. 4 / H302 Eye Irrit. 2 / H319 STOT SE 3 / H335 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		10 – < 25

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Name of substance	Identifier	Classification acc. to GHS	Pictograms	Wt%
Aluminium sulphate	CAS No 10043-01-3 EC No 233-135-0 REACH Reg. No 01-2119531538-36-xxxx	Eye Dam. 1 / H318		5 – < 10
Boric acid	CAS No 10043-35-3 EC No 233-139-2 Index No 005-007-00-2 REACH Reg. No 01-2119486683-25-xxxx	Repr. 1B / H360FD		< 1

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Symclosene	-	-	500 mg/kg	oral
Troclosene sodium, dihydrate	-	-	500 mg/kg	oral
Boric acid	Repr. 1B; H360FD: C ≥ 5.5 %	-	-	

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Take off immediately all contaminated clothing. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Self-protection of the first aid-er.

Following inhalation

Mouth to mouth resuscitation should be avoided. Use alternative methods, preferably with oxygen or compressed air driven apparatus. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In all cases of doubt, or when symptoms persist, seek medical advice.

Following ingestion

Rinse mouth with water (only if the person is conscious). Let be drunken in little sips: 0, 1-0,2l Water. Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water, Foam, Alcohol resistant foam, ABC-powder

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NO_x), Hydrogen chloride (HCl), Chlorine (Cl₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. 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

Covering of drains. Take up mechanically.

Advice on how to clean up a spill

Take up mechanically.

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. Disposal considerations: see section 13.

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. Use local and general ventilation.

- Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

- Handling of incompatible substances or mixtures
Do not mix with acids.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres
Removal of dust deposits.

Control of effects

- Protect against external exposure, such as
High temperatures, Frost, Humidity, UV-radiation/sunlight
- Ventilation requirements
Use local and general ventilation.

Packaging compatibilities

Professional use: Only packagings which are approved (e.g. acc. to ADR) may be used. Consumer use (private households): Keep only in original container.

Conditions of storage

Keep container tightly closed in a cool place. Protect from sunlight. Keep away from children.

7.3 Specific end use(s)

There is no additional information.

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/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
EU	chlorine	7782-50-5	IOELV			0.5	1.5			proc	2006 /15/ EC
GB	dust		WEL		10					i	EH40 / 2005
GB	dust		WEL		4					r	EH40 / 2005
GB	chlorine	7782-50-5	WEL			0.5	1.5			proc	EH40 / 2005

Notation

Ceiling-C	ceiling value is a limit value above which exposure should not occur
i	inhalable fraction
proc	substances released during the process
r	respirable fraction
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)

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Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Troclosene sodium, dihydrate	51580-86-0	DNEL	1.99 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Troclosene sodium, dihydrate	51580-86-0	DNEL	1.15 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Troclosene sodium, dihydrate	51580-86-0	DNEL	1.15 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Aluminium sulphate	10043-01-3	DNEL	3.3 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Aluminium sulphate	10043-01-3	DNEL	1.9 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Boric acid	10043-35-3	DNEL	4.15 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Boric acid	10043-35-3	DNEL	196 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Boric acid	10043-35-3	DNEL	0.98 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Boric acid	10043-35-3	DNEL	0.98 mg/kg bw/day	human, oral	consumer (private households)	acute - systemic effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Troclosene sodium, dihydrate	51580-86-0	PNEC	0 mg/l	aquatic organisms	freshwater	short-term (single instance)
Troclosene sodium, dihydrate	51580-86-0	PNEC	1.52 mg/l	aquatic organisms	marine water	short-term (single instance)
Troclosene sodium, dihydrate	51580-86-0	PNEC	0.59 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Troclosene sodium, dihydrate	51580-86-0	PNEC	7.56 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Troclosene sodium, dihydrate	51580-86-0	PNEC	0.756 mg/kg	terrestrial organisms	soil	short-term (single instance)
Boric acid	10043-35-3	PNEC	2.9 mg/l	aquatic organisms	freshwater	short-term (single instance)
Boric acid	10043-35-3	PNEC	2.9 mg/l	aquatic organisms	marine water	short-term (single instance)
Boric acid	10043-35-3	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Boric acid	10043-35-3	PNEC	5.7 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls (professional use)

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

- Eye/face protection

Use safety goggle with side protection (EN 166).

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 above together with the supplier of these gloves.

Type of material

PVC: polyvinyl chloride, NR: natural rubber, latex

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection

Particulate filter device (EN 143).

In case of inadequate ventilation wear respiratory protection: Full face mask (DIN EN 136).

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	solid
Colour	different
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined
Flammability	non-combustible
Lower and upper explosion limit	not determined
Flash point	not applicable
Auto-ignition temperature	not determined
Decomposition temperature	225 °C
pH (value)	not applicable
Kinematic viscosity	not relevant
Particle characteristics	no data available
Oxidising properties	none
Vapour pressure	
Vapour pressure	<0.006 Pa at 20 °C

Density and/or relative density

Density	not determined
Relative vapour density	information on this property is not available
Other safety parameters	
Solubility(ies)	
Water solubility	12 g/l at 25 °C
Partition coefficient	
n-Octanol/water (log KOW)	this information is not available

9.2 Other information

Information with regard to physical hazard classes

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

Other safety characteristics

there is no additional information

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.

Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

10.5 Incompatible materials

There is no additional information.

Release of toxic materials with:

Acids

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. 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.

GHS of the United Nations, annex 4: May be harmful if inhaled.

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Acute toxicity estimate (ATE)

Oral 552 mg/kg

Name of substance	CAS No	Exposure route	End-point	Value	Species
Symclosene	87-90-1	oral	LD50	787 mg/kg	rat
Symclosene	87-90-1	inhalation: dust/mist	LC50	>5.25 mg/l/4h	rat
Symclosene	87-90-1	dermal	LD50	>5,000 mg/kg	rabbit
Troclosene sodium, dihydrate	51580-86-0	oral	LD50	2,094 mg/kg	rat
Troclosene sodium, dihydrate	51580-86-0	dermal	LD50	>5,000 mg/kg	rat
Aluminium sulphate	10043-01-3	oral	LD50	>2,000 – <5,000 mg/kg	rat
Aluminium sulphate	10043-01-3	oral	LD50	>9,000 mg/kg	rat
Aluminium sulphate	10043-01-3	dermal	LD50	>5,000 mg/kg	rabbit
Boric acid	10043-35-3	oral	LD50	3,450 mg/kg	rat
Boric acid	10043-35-3	dermal	LD50	>2,000 mg/kg	rabbit

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

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
Symclosene	87-90-1	LC50	0.23 mg/l	fish	96 h
Symclosene	87-90-1	EC50	0.17 mg/l	aquatic invertebrates	48 h
Symclosene	87-90-1	EbC50	2,700 mg/l	algae	72 h
Symclosene	87-90-1	ErC50	>100 mg/l	algae	72 h
Troclosene sodium, dihydrate	51580-86-0	LC50	0.24 mg/l	fish	96 h
Troclosene sodium, dihydrate	51580-86-0	EC50	0.17 mg/l	aquatic invertebrates	48 h
Troclosene sodium, dihydrate	51580-86-0	EbC50	2,700 mg/l	algae	72 h
Troclosene sodium, dihydrate	51580-86-0	ErC50	>100 mg/l	algae	72 h
Aluminium sulphate	10043-01-3	LC50	36.1 mg/l	fish	96 h
Aluminium sulphate	10043-01-3	LC50	23.6 – 38.2 mg/l	crustacean	48 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Symclosene	87-90-1	EC50	2,600 mg/l	aquatic invertebrates	21 d
Troclosene sodium, dihydrate	51580-86-0	EC50	2,600 mg/l	aquatic invertebrates	21 d

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Symclosene	87-90-1		-1.31 (25 °C)	
Aluminium sulphate	10043-01-3		<3	
Boric acid	10043-35-3		-1.09 (pH value: 7.5, 22 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

The mixture contains substance(s) with an endocrine disrupting potential.

Endocrine disrupting chemicals (EDC)				
Name of substance	CAS No	Combined category	Human health category	Wildlife category
Boric acid	10043-35-3	CAT1	CAT1	CAT2

Legend

- CAT1 Category 1 - evidence of endocrine disruption in at least one species using intact animals
 CAT2 Category 2 - at least some in vitro evidence of biological activity related to endocrine disruption

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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.

Other disposal recommendations

Dispose of contents/container to hazardous or special waste collection point. Waste treatment of containers/packagings: Mixed municipal waste.

Relevant provisions relating to waste

List of wastes (EU), Decision 2000/532/EC on the list of waste

Product Code/ Type of waste: 19 09 99

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

	3077
ADR/RID/ADN	UN 3077
IMDG-Code	UN 3077
ICAO-TI	UN 3077

14.2 UN proper shipping name

	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
ADR/RID/ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
IMDG-Code	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
ICAO-TI	Environmentally hazardous substance, solid, n.o.s.
Technical name (hazardous ingredients)	Troclosene sodium, dihydrate, Symclosene

14.3 Transport hazard class(es)

ADR/RID/ADN	9
IMDG-Code	9

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ICAO-TI	9
14.4 Packing group	III (substance presenting low danger)
ADR/RID/ADN	III
IMDG-Code	III
ICAO-TI	III
14.5 Environmental hazards	hazardous to the aquatic environment

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)

Classification code	M7
Danger label(s)	9, fish and tree 
Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	274, 335, 375, 601
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 kg
Transport category (TC)	3
Tunnel restriction code (TRC)	-
Hazard identification No	90
Emergency Action Code	2Z

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant	yes (hazardous to the aquatic environment)
Danger label(s)	9, fish and tree 
Special provisions (SP)	274, 335, 966, 967, 969
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 kg
EmS	F-A, S-F
Stowage category	A

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Environmental hazards	yes (hazardous to the aquatic environment)
Danger label(s)	9, fish and tree 
Special provisions (SP)	A97, A158, A179, A197, A215
Excepted quantities (EQ)	E1
Limited quantities (LQ)	30 kg

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

No	Name of substance	CAS No	Type of registration
30	Boric acid		1907/2006/EC annex XVII
75	Boric acid		2020/2081/EC annex XVII
75	Troclosene sodium, dihydrate		2020/2081/EC annex XVII
75	Symclosene		2020/2081/EC annex XVII
75	Aluminium sulphate		2020/2081/EC annex XVII

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

Substance of Very High Concern (SVHC)			
Name acc. to inventory	CAS No	Listed in	Remarks
boric acid	10043-35-3	Candidate list	Repr. A57c

Legend

candidate list Substances meeting the criteria referred to in Article 57 and for eventual inclusion in Annex XIV
 Repr. A57c Toxic for reproduction (article 57c)

Seveso Directive

No	Dangerous substance/hazard categories
E1	environmental hazards (hazardous to the aquatic environment, cat. 1)

Deco-Paint Directive

VOC content	0 %
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Industrial Emissions Directive (IED)

VOC content	0 %
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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
Boric acid		A)	
Troclosene sodium, dihydrate		A)	
Troclosene sodium, dihydrate		A)	
Symclosene		A)	
Aluminium sulphate		A)	

Legend

A) Indicative list of the main pollutants

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

National inventories

Country	Inventory	Status
EU	REACH Reg.	all ingredients are listed

Legend

REACH Reg. REACH registered substances

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)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
1.3	Details of the supplier of the safety data sheet: Steinbach International GmbH L. Steinbach Platz 1 4311 Schwertberg Austria Telephone: +43 7262 61431 e-Mail: info@steinbach-group.com e-Mail (competent person): sdb@steinbach-group.com	Details of the supplier of the safety data sheet: Steinbach International GmbH L. Steinbach Platz 1 4311 Schwertberg Austria Telephone: +43 7262 61431 1000 e-Mail: info@steinbach-group.com e-Mail (competent person): sdb@steinbach-group.com	yes
2.3	Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.		yes
2.3		Endocrine disrupting properties: The mixture contains substance(s) with an endocrine disrupting potential.	yes
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes
4.1	General notes: Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Take off immediately all contaminated clothing. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours. In case of unconsciousness place person in the recovery position. Never give anything by mouth.	General notes: Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Take off immediately all contaminated clothing. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Self-protection of the first aider.	yes
4.1	Following skin contact: Rinse skin with water/shower.		yes
8.2	- Eye/face protection: Use safety goggle with side protection (EN 166).		yes
8.2		- Eye/face protection: Use safety goggle with side protection (EN 166).	yes
8.2	Hand protection: In the case of wanting to use the gloves again, clean them before taking off and air them well.		yes
8.2	Type of material: PVC: polyvinyl chloride, NR: natural rubber, latex		yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
8.2		- 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 above together with the supplier of these gloves.	yes
8.2		Type of material: PVC: polyvinyl chloride, NR: natural rubber, latex	yes
8.2	- Other protection measures: Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.	- Other protection measures: Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.	yes
8.2	Respiratory protection: Particulate filter device (EN 143)	Respiratory protection: Particulate filter device (EN 143). In case of inadequate ventilation wear respiratory protection: Full face mask (DIN EN 136).	yes
9.1		Lower and upper explosion limit: not determined	yes
9.1	Evaporation rate: not determined		yes
9.1	Explosion limits of dust clouds: not determined		yes
9.1		Kinematic viscosity: not relevant	yes
9.1		Particle characteristics: no data available	yes
9.1		Oxidising properties: none	yes
9.1		Vapour pressure	yes
9.1		Density and/or relative density	yes
9.1	Vapour density: this information is not available		yes
9.1	Viscosity: not relevant (solid matter)		yes
9.1	Explosive properties: none		yes
9.1	Oxidising properties: none		yes
9.2	Other information: There is no additional information.	Other information	yes
9.2		Information with regard to physical hazard classes: hazard classes acc. to GHS (physical hazards): not relevant	yes
9.2		Other safety characteristics: there is no additional information	yes
11.2		Information on other hazards: There is no additional information.	yes
12.7	Other adverse effects	Other adverse effects: Data are not available.	yes
14.1		ADR/RID/ADN: UN 3077	yes
14.1		IMDG-Code: UN 3077	yes
14.1		ICAO-TI: UN 3077	yes

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
14.2		ADR/RID/ADN: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	yes
14.2		IMDG-Code: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	yes
14.2		ICAO-TI: Environmentally hazardous substance, solid, n.o.s.	yes
14.3	Class: 9 (environmentally hazardous)		yes
14.3		ADR/RID/ADN: 9	yes
14.3		IMDG-Code: 9	yes
14.3		ICAO-TI: 9	yes
14.4		ADR/RID/ADN: III	yes
14.4		IMDG-Code: III	yes
14.4		ICAO-TI: III	yes
14.7	UN number: 3077		yes
14.7	Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.		yes
14.7	Class: 9		yes
14.7	Packing group: III		yes
14.7	UN number: 3077		yes
14.7	Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.		yes
14.7	Class: 9		yes
14.7	Packing group: III		yes
14.7	UN number: 3077		yes
14.7	Proper shipping name: Environmentally hazardous substance, solid, n.o.s.		yes
14.7	Class: 9		yes
14.7	Packing group: III		yes
14.7	Special provisions (SP): A97, A158, A179, A197	Special provisions (SP): A97, A158, A179, A197, A215	yes
15.1		Restrictions according to REACH, Annex XVII: change in the listing (table)	yes
15.1		Regulation on persistent organic pollutants (POP): None of the ingredients are listed.	yes
16		Abbreviations and acronyms: change in the listing (table)	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
16	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).	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).	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
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)
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
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)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
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
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
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-octanol/water
NLP	No-Longer Polymer
Ox. Sol.	oxidising solid
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	short-term exposure limit
STOT SE	specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
TWA	time-weighted average
VOC	Volatile Organic Compounds
vPvB	very Persistent and very Bioaccumulative
WEL	workplace exposure limit

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Key literature references and sources for data

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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
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360FD	May damage fertility. May damage the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic 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.