

SAFETY DATA SHEET

NOVADAN®

Tex Powder Color 751

NOVADAN®

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 12.09.2012
Revision date 29.04.2021

1.1. Product identifier

Product name Tex Powder Color 751
UFI 1DG1-Q0YJ-T002-1NTN
Article no. 31162

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

Product group Alkaline textile detergent.
Main intended use PC-DET-1.3 Laundry detergents - professional or industrial use
Relevant identified uses SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU22 Professional uses: publicly accessible (administration, education, entertainment, services, craftsmen)
PC35 Washing and cleaning products (including solvent based products)
PROC2 Use in closed, continuous process with occasional controlled exposure
ERC8A Wide dispersive indoor use of processing aids in open systems
Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet**Producer**

Company name Novadan ApS
Postal address Platinvej 21
Postcode DK-6000
City Kolding
Country Danmark
Telephone number + 45 76 34 84 00
Fax + 45 75 50 43 70
Email sds@novadan.dk

Website

www.novadan.dk

1.4. Emergency telephone number

Emergency telephone

Description: UK: NHS: 111

EI: National Poisons Information Centre, 24/7: 01 809 2166

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin Corr. 1B; H314; Calculation method

Substance / mixture hazardous
properties

Eye Dam. 1; H318; Calculation method

Additional information on
classification

For further information, please refer to section 11.

The informations stated in this MSDS, applies for the concentrated product.
See Sec. 16, for informations regarding recommended user solutions

2.2. Label elements

Hazard pictograms (CLP)



Composition on the label

Disodium metasilicate, pentahydrate

Signal word

Danger

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P303+P361+P353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / 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 or doctor / physician.

2.3. Other hazards

Health effect

Corrosive to skin and eyes. May cause permanent damage to the eyes, especially if the product is not washed away IMMEDIATELY. Inhalation of dust may irritate the respiratory system.
See section 11 for additional information on health hazards.

Environmental effects

Substantial amounts of the product may lead to a local change in acidity in small water systems which may have adverse effects on aquatic organisms.
This product does not contain any PBT or vPvB substances.

Other hazards

No evidence for endocrine disrupting properties.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Sodium carbonate	CAS No.: 497-19-8 EC No.: 207-838-8 Index No.: 011-005-00-2 REACH Reg. No.: 01-211-9485498-19	Eye Irrit. 2; H319	15 – 30 %	
Disodium metasilicate, pentahydrate	CAS No.: 10213-79-3 EC No.: 229-912-9 REACH Reg. No.: 01-2119449811-37-xxxx	Skin Corr. 1B; H314 Eye Dam. 1; H318 Met. Corr. 1; H290 STOT SE 3; H335	5 – 15 %	
Sodium silicate	CAS No.: 1344-09-8 EC No.: 215-687-4 REACH Reg. No.: 01-2119448725-31-xxxx	Eye Dam. 1; H318 Skin Irrit. 2; H315 STOT SE3; H335	5 – 15 %	
Alcohols, C12-14 ethoxylated	CAS No.: 68439-50-9 EC No.: 932-106-6 REACH Reg. No.: 01-2119487984-16-xxxx	Eye Dam. 1; H318 Aquatic Chronic 3; H412 Acute Tox. 4; H302 Additional information on classification: SCL: <10% Eye Irr.2; ≥10% Eye Dam. 1	1 – 5 %	
Substance comments	<p>Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents:</p> <p>5-15%: phosphates , <5%: nonionic surfactant , <1% : Enzymes .</p> <p>The full text for all hazard statements is displayed in section 16.</p>			

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Remove affected person from source of contamination.
Inhalation	Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions.
Skin contact	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention if any discomfort continues.
Eye contact	Important! Immediately rinse with water for at least 15 minutes. May cause permanent damage if eye is not immediately irrigated. Make sure to remove any contact lenses from the eyes before rinsing. Immediately transport to hospital or eye specialist. Continue flushing during transport to hospital.
Ingestion	Immediately rinse mouth and drink plenty of water. Call an ambulance. Bring along these instructions. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Do not give victim anything to drink if he is unconscious.
Recommended personal protective equipment for first aid responders	Wear necessary protective equipment. For personal protection, see section 8.

4.2. Most important symptoms and effects, both acute and delayed

Acute symptoms and effects	Strongly corrosive. May cause deep tissue damage. Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative.
Delayed symptoms and effects	The etching penetrates deeply into the tissue and is first noticed after a while.

4.3. Indication of any immediate medical attention and special treatment needed

Other information	In case of unconsciousness, ingestion or eye contact: Immediately call a doctor / ambulance. Show this safety data sheet.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
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5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	This product is not flammable. During fire, gases hazardous to health may be formed. Water used for fire extinguishing, which has been in contact with the product, may be corrosive.
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5.3. Advice for firefighters

Personal protective equipment	Wear necessary protective equipment. For personal protection, see section 8.
Fire fighting procedures	Reference is made to the company fire procedure. If risk of water pollution occurs, notify appropriate authorities. Avoid breathing fire vapours.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Look out! The product is corrosive. Use protective gloves, goggles and suitable protective clothing. Avoid inhalation of dust. In case of inadequate ventilation use suitable respirator. For personal protection, see section 8.
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6.2. Environmental precautions

Environmental precautionary measures	Avoid discharge into water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.
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6.3. Methods and material for containment and cleaning up

Cleaning method	Collect spillage with shovel, broom or the like. Wash contaminated area with water.
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6.4. Reference to other sections

Other instructions	See section 8 and section 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling

Avoid inhalation of dust and contact with skin and eyes. Do not mix with acidic products. Use work methods which minimize dust production.

Protective safety measures

Advice on general occupational hygiene

Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.
Eating, smoking and water fountains prohibited in immediate work area.
Take off contaminated clothing and personal protective equipment before entering an eating area..

7.2. Conditions for safe storage, including any incompatibilities

Storage

Store in tightly closed original container. Keep away from food, drink and animal feeding stuffs. Store protected from acids. Water reactive storage. Store the product away from direct sunlight in opaque containers.

Conditions for safe storage

Storage temperature

Value: -20 – 35 °C

Storage stability

Durability: 36 months.

7.3. Specific end use(s)

Specific use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Mineral dust, inert		Limit value (8 h) : mg/m ³ Limit value (8 h) : 10	TWA Year: 2005

DNEL / PNEC

Substance

Sodium carbonate

DNEL

Group: Worker
Route of exposure: Long term (repeated) – Inhalation
Value: 10 mg/m³
Reference: Supplier MSDS

Substance

Disodium metasilicate, pentahydrate

DNEL

Group: Professional
Route of exposure: Long-term inhalation (systemic)
Value: 6,22 mg/m³

Group: Consumer
Route of exposure: Long-term inhalation (systemic)
Value: 1,55 mg/m³

Group: Consumer

Route of exposure: Long-term oral (systemic)
Value: 0,74 mg/kg bw/d

Group: Professional
Route of exposure: Long-term dermal (systemic)
Value: 1,49 mg/kg bw/d

Group: Consumer
Route of exposure: Long-term dermal (systemic)
Value: 0,74 mg/kg bw/d

PNEC

Route of exposure: Freshwater
Value: 7,5 mg/l

Route of exposure: Saltwater
Value: 1 mg/l

Route of exposure: Water
Value: 7,5 mg/l

Route of exposure: Sewage treatment plant STP
Value: 1000 mg/l

8.2. Exposure controls

Safety signs



Precautionary measures to prevent exposure

Technical measures to prevent exposure

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. An eye wash bottle must be available at the work site.

Eye / face protection

Suitable eye protection

Wear approved safety goggles. EN 166.

Hand protection

Skin- / hand protection, long term contact

Use protective gloves made of:
Butyl rubber. $\geq 0,5$ mm
Neoprene. $\geq 0,5$ mm
Nitrile. $\geq 0,4$ mm
EN 374.

Breakthrough time

Value: ≥ 480 minute(s)

Hand protection, comments

Manufacturer's directions for use should be observed because of great diversity of types.
The recommendation is a qualified estimate based on knowledge of the components.

Skin protection

Additional skin protection measures

Wear apron or protective clothing in case of contact.

Respiratory protection

Respiratory protection necessary at

In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2). EN 143/EN149.

Thermal hazards

Thermal hazards

See section 5.

Appropriate environmental exposure control

Environmental exposure controls

See section 6.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Powder, dust.

Colour

White.

Odour

No characteristic odour.

pH

Status: In aqueous solution

Value: ~ 10,5

Comments: 0°dH

Concentration: 10 %

Status: In aqueous solution

Value: ~ 9,5

Comments: 15°dH

Concentration: 0,5 %

Melting point / melting range

Comments: Not relevant.

Boiling point / boiling range

Comments: Not relevant.

Flash point

Comments: Not relevant.

Evaporation rate

Comments: Not relevant.

Flammability

Not relevant.

Explosion limit

Comments: Not relevant.

Bulk density

Value: ~ 0,80 kg/l

Solubility

Comments: Completely soluble in water.

Partition coefficient: n-octanol/water

Comments: Not relevant.

Auto-ignition temperature

Comments: Not relevant.

Decomposition temperature

Comments: Not relevant.

Viscosity

Comments: Not relevant.

Explosive properties	Not explosive.
Oxidising properties	Does not meet the criteria for oxidising.

9.2. Other information

9.2.2. Other safety characteristics

Comments	No data recorded.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Reacts violently with strong acids.
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10.4. Conditions to avoid

Conditions to avoid	Water, moisture, acids and heating.
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10.5. Incompatible materials

Materials to avoid	Strong acids. Acids, oxidising.
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10.6. Hazardous decomposition products

Hazardous decomposition products	In case of fire, toxic gases (CO, CO ₂ , NO _x) may be formed.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Substance	Sodium carbonate
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Acute toxicity	Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: 2800 mg/kg Animal test species: Rat Comments: Supplier MSDS
	Type of toxicity: Acute Effect tested: LC50 Route of exposure: Inhalation. Duration: 2h Value: 0,8 mg/l Animal test species: guinea pig

Comments: Supplier MSDS

Type of toxicity: Acute

Effect tested: LC50

Route of exposure: Inhalation.

Duration: 2h

Value: 1,2 mg/l

Animal test species: Mice

Comments: Supplier MSDS

Type of toxicity: Acute

Effect tested: LC50

Route of exposure: Inhalation.

Duration: 2h

Value: 2,3 mg/l

Animal test species: Rat

Comments: Supplier MSDS

Type of toxicity: Acute

Effect tested: LD50

Route of exposure: Dermal

Value: > 2000 mg/kg

Animal test species: Rabbit

Comments: Supplier MSDS

Substance

Disodium metasilicate, pentahydrate

Acute toxicity

Effect tested: LD50

Route of exposure: Oral

Value: 1152 -1349 mg/kg

Animal test species: Rat

Effect tested: LC50

Route of exposure: Inhalation.

Value: > 2,06 g/m3

Animal test species: Rat

Effect tested: LD50

Route of exposure: Dermal

Value: > 5000 mg/kg

Substance

Sodium silicate

Acute toxicity

Type of toxicity: Acute

Effect tested: LD50

Route of exposure: Oral

Value: > 1300 mg/kg

Animal test species: Rat

Substance

Alcohols, C12-14 ethoxylated

Acute toxicity

Type of toxicity: Acute

Effect tested: LD50

Route of exposure: Oral

Value: > 300-2000 mg/kg

Animal test species: Rat

Type of toxicity: Acute
Effect tested: LD50
Route of exposure: Dermal
Value: > 2000 mg/kg
Animal test species: Rabbit

Other toxicological data

Toxicological tests on the product has not been performed.

Other information regarding health hazards

Assessment of acute toxicity, classification	No evidence for acute toxicity.
Inhalation	Inhalation may cause: Serious damage to the lining of nose, throat and lungs.
Skin contact	Strongly corrosive. May cause deep tissue damage.
Eye contact	Strongly corrosive. Causes severe burns. Immediate first aid is imperative. May cause permanent damage to the eyes, especially if the product is not washed away IMMEDIATELY.
Ingestion	May cause burns in mucous membranes, throat, oesophagus and stomach.
Sensitisation	No evidence for respiratory nor skin sensitization.
Assessment of germ cell mutagenicity, classification	No evidence for germ cell mutagenicity.
Assessment of carcinogenicity, classification	No evidence for carcinogenicity.
Assessment of reproductive toxicity, classification	No evidence for reproductive toxicity.
Assessment of specific target organ toxicity - single exposure, classification	No evidence for STOT-single exposure.
Substance	Disodium metasilicate, pentahydrate
Specific target organ toxicity - repeated exposure, test results	<p>Method: NOAEL Route of exposure: Oral Dose: 227 mg/kg bw /d Species: Rat Evaluation result: Negative.</p>
Assessment of specific target organ toxicity - repeated exposure, classification	No evidence for STOT-repeated exposure.
Assessment of aspiration hazard, classification	No evidence for aspiration hazard.

11.2 Other information

Endocrine disruption No evidence for endocrine disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity

Substance Sodium carbonate

Aquatic toxicity, fish	Value: 300 mg/l Test duration: 96H Species: Lepomis macrochirus Method: LC50
Substance	Disodium metasilicate, pentahydrate
Aquatic toxicity, fish	Toxicity type: Acute Value: 210 mg/l Test duration: 96 hour(s) Species: Brachydanio rerio
Substance	Sodium silicate
Aquatic toxicity, fish	Value: 3185 mg/l Test duration: 96h Species: Brachydanio Rerio Method: LC50
Substance	Alcohols, C12-14 ethoxylated
Aquatic toxicity, fish	Value: 1 – 10 mg/L Test duration: 96h Species: Cyprinus carpio Method: OECD 203
Substance	Alcohols, C12-14 ethoxylated
Aquatic toxicity, algae	Value: 1 – 10 mg/L Test duration: 72h Species: Desmodesmus subspicatus Method: OECD 201
Substance	Sodium carbonate
Aquatic toxicity, crustacean	Value: 200 – 227 mg/l Test duration: 48H Species: Ceriodaphnia dubia Method: EC50
Substance	Disodium metasilicate, pentahydrate
Aquatic toxicity, crustacean	Toxicity type: Acute Value: 1700 mg/l Test duration: 48 hour(s) Species: Daphnia magna Method: EC50
Substance	Sodium silicate
Aquatic toxicity, crustacean	Value: 4857 mg/l Test duration: 48h Species: Daphnia Magna Method: EC50
Substance	Alcohols, C12-14 ethoxylated
Aquatic toxicity, crustacean	Value: 1 – 10 mg/L Test duration: 96h Species: Daphnia magna Method: OECD 202

Ecotoxicity	Large amounts of the product may affect the acidity (pH-factor) in water with possible risk of harmful effects to aquatic organisms.
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12.2. Persistence and degradability

Persistence and degradability description/evaluation	The product is easily biodegradable.
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Substance	Alcohols, C12-14 ethoxylated
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Biodegradability	Value: > 60 % Method: OECD 301 B Test period: 28d
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12.3. Bioaccumulative potential

Bioaccumulation, evaluation	The product is not bioaccumulating.
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12.4. Mobility in soil

Mobility	The product is water soluble and may spread in water systems.
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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	Not Classified as PBT/vPvB by current EU criteria.
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12.6. Endocrine disrupting properties

Endocrine disrupting properties	No evidence for endocrine disrupting properties.
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12.7. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point.
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Dispose of waste and residues in accordance with local authority requirements.

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Appropriate methods of disposal for the contaminated packaging	Dispose unused product and the packaging in accordance with local requirements.
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EWC waste code	EWC waste code: 0706 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics Classified as hazardous waste: Yes
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EWL packing	EWC waste code: 0706 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics Classified as hazardous waste: Yes
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Other information	Waste code applies to product remnants in pure form. When handling waste, consideration should be made to the safety precautions applying to handling of the product.
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SECTION 14: Transport information

Dangerous goods Yes

14.1. UN number

ADR/RID/ADN	3253
IMDG	3253
ICAO/IATA	3253

14.2. UN proper shipping name

ADR/RID/ADN	DISODIUM TRIOXOSILICATE
IMDG	DISODIUM TRIOXOSILICATE
ICAO/IATA	DISODIUM TRIOXOSILICATE

14.3. Transport hazard class(es)

ADR/RID/ADN	8
IMDG	8
ICAO/IATA	8

14.4. Packing group

ADR/RID/ADN	III
IMDG	III
ICAO/IATA	III

14.5. Environmental hazards

IMDG Marine pollutant No

14.6. Special precautions for user

Special safety precautions for user Not relevant.

14.7. Maritime transport in bulk according to IMO instruments

ADR/RID Other information

Hazard No. 80

IMDG Other information

EmS F-A, S-B

SECTION 15: Regulatory information

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

Other label information	For professional users only. As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.
Legislation and regulations	The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242), with amendments. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895). REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents.

15.2. Chemical safety assessment

Chemical safety assessment
performed

No

SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects.
Training advice	No particular training or education is required but the user must be familiar with this SDS. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.
Additional information	READY-TO-USE MIXTURE: 0,2-0,5% Does not require a hazard warning label.
Information added, deleted or revised	Change to Sections: 1, 2, 7, 8, 11, 12, 13, 16
Version	1
Prepared by	ALM