

SAFETY DATA SHEET

NOVADAN®

Tex Powder White 750

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 01.05.2019

1.1. Product identifier

Product name Tex Powder White 750

Article no. 31159

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

Product group Alkaline textile detergent.

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**Manufacturer**

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

Eye Dam. 1; H318

STOT SE 3; H335

Substance / mixture hazardous
 properties

For further information, please refer to section 11.

2.2. Label elements

Hazard pictograms (CLP)



Composition on the label

Disodium metasilicate, pentahydrate , Sodium percarbonate

Signal word

Danger

Hazard statements

H314 Causes severe skin burns and eye damage.
 H335 May cause respiratory irritation.

Precautionary statements

P261 Avoid breathing dust.
 P280 Wear eye protection/protective gloves/protective clothing.
 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.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Disodium metasilicate,	CAS No.: 10213-79-3	Skin Corr 1B; H314	15 - 30 %

pentahydrate	EC No.: 229-912-9 REACH Reg. No.: 01-2119449811-37-xxxx	Eye Dam. 1; H318 Met. Corr. 1; H290 STOT SE3; H335	
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	5 - 15 %
Sodium percarbonate	CAS No.: 15630-89-4 EC No.: 239-707-6 REACH Reg. No.: 01-2119457268-30-xxxx	Eye Dam. 1; H318 Acute tox. 4; H302 Ox. Sol. 2; H272	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 %
C12-C14 Alkyl alcohol ethoxylate	CAS No.: 68439-50-9 EC No.: 932-106-6 REACH Reg. No.: 01-2119487984-16-xxxx	Acute tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412	1 - 5 %
Substance comments	Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents: 15-30%: phosphates , 5-15%: oxygen-based bleaching agents , <5%: nonionic surfactant , Soap , <1% : Enzymes . The full text for all hazard statements is displayed in section 16.		

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	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. May cause permanent damage if eye is not immediately irrigated. 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. Dust irritates the respiratory system, and may cause coughing and difficulties in breathing.
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.

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.

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	Value	TWA Year
Disodium metasilicate, pentahydrate	CAS No.: 10213-79-3		
Sodium carbonate	CAS No.: 497-19-8		
Sodium percarbonate	CAS No.: 15630-89-4		
Sodium silicate	CAS No.: 1344-09-8		
C12-C14 Alkyl alcohol ethoxylate	CAS No.: 68439-50-9		
Mineral dust, inert		TWA (8h) : mg/m3 TWA (8h) : 10	TWA Year: 2005

DNEL / PNEC

Substance Disodium metasilicate, pentahydrate

DNEL

Group: Consumer
Route of exposure: Long term (repeated) - Inhalation - Systemic effect
Value: 1,55 mg/m3
Reference: Supplier MSDS

Group: Consumer
Route of exposure: Long term (repeated) - Oral - Systemic effect
Value: 0,74 mg/kg bw/d
Reference: Supplier MSDS

Group: Worker
Route of exposure: Long term (repeated) - Dermal - Systemic effect
Value: 1,49 mg/kg bw/d
Reference: Supplier MSDS

Group: Worker
Route of exposure: Long term (repeated) - Inhalation - Systemic effect
Value: 6,22 mg/m3

PNEC

Reference: Supplier MSDS
Group: Consumer
Route of exposure: Long term (repeated) - Dermal - Systemic effect
Value: 0,74 mg/kg bw/d
Reference: Supplier MSDS

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

Route of exposure: Water
Value: 7,5 mg/l
Reference: Fresh water. Supplier MSDS

Route of exposure: Water
Value: 1 mg/l
Reference: Marine water, Supplier MSDS

Substance

Sodium carbonate

DNEL

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

Substance

Sodium percarbonate

DNEL

Group: Worker
Route of exposure: Long term (repeated) - Inhalation - Local effect
Value: 5 mg/m³

Group: Worker
Route of exposure: Short term (acute) - Dermal - Local effect
Value: 12,8 mg/cm²

Group: Consumer
Route of exposure: Short term (acute) - Dermal - Local effect
Value: 6,4 mg/cm²

PNEC

Route of exposure: Water
Value: 0,035 mg/l
Reference: Sea water

Route of exposure: Sewage treatment plant STP
Value: 16,24 mg/l

Route of exposure: Water
Value: 0,035 mg/l
Reference: Fresh water

Value: 0,035 mg/l
Reference: Intermittent use/release

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 dust resistant safety goggles where there is danger of eye contact. (EN 166).

Hand protection

Skin- / hand protection, long term contact

Use protective gloves made of: Nitrile. Neoprene. Butyl rubber. (EN 374)

Hand protection, comments

Breakthrough time for nitrile rubber, neoprene and butyl rubber is approx. 3 hours. The recommendation is a qualified estimate based on knowledge of the components. Elastic gloves stretch when used as glove thickness and thus the breakthrough time reduced. The EN 374-3 standard test is performed at 23°C, but the practical temperature of the glove is approx. 35°C. The breakthrough time of the different glove guides, is therefor reduced by a factor 3.

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).

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.
Odour limit	Comments: Not relevant.
pH	Status: In aqueous solution Value: ~ 11,0 Concentration: 10 % Status: In aqueous solution Value: ~ 10,5 Concentration: 1 %
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 (solid, gas)	Not relevant.
Explosion limit	Comments: Not relevant.
Vapour pressure	Comments: Not relevant.
Vapour density	Comments: Not relevant.
Bulk density	Value: ~ 0,80 kg/l
Solubility	Comments: Completely soluble in water.
Partition coefficient: n-octanol/ water	Comments: Not relevant.
Spontaneous combustability	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

Other physical and chemical properties

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.

10.4. Conditions to avoid

Conditions to avoid Water, moisture, acids and heating.

10.5. Incompatible materials

Materials to avoid Strong acids. Acids, oxidising.

10.6. Hazardous decomposition products

Hazardous decomposition products In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Substance Disodium metasilicate, pentahydrate

Acute toxicity

Type of toxicity: Acute
Effect tested: LD50
Route of exposure: Oral
Value: > 1152-1349 mg/kg
Animal test species: Rat
Comments: Supplier MSDS

Type of toxicity: Acute
Effect tested: LC50
Route of exposure: Inhalation.
Value: > 2,06 g/m³
Animal test species: rat
Comments: Supplier MSDS

Type of toxicity: Acute
Effect tested: LD50
Route of exposure: Dermal
Value: > 5000 mg/kg
Animal test species: rat
Comments: Supplier MSDS

Substance

Sodium carbonate

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

Sodium percarbonate

Acute toxicity

Type of toxicity: Acute
Effect tested: LD50
Route of exposure: Oral
Value: = 1034 mg/kg
Animal test species: Rat

Type of toxicity: Acute
Effect tested: LC50
Route of exposure: Inhalation.
Value: = 1,2 mg/l
Animal test species: Mouse

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

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

C12-C14 Alkyl alcohol ethoxylate

Acute toxicity

Type of toxicity: Acute

Effect tested: LD50
Route of exposure: Oral
Value: 556 mg/kg
Comments: Calculated estimate

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	Dust irritates the respiratory system, and may cause coughing and difficulties in breathing.
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	Strongly corrosive. Even small amounts may be fatal. Symptoms are severe burning pains in mouth, throat and stomach.
Sensitisation	No evidence for respiratory nor skin sensitization.
Mutagenicity	No evidence for germ cell mutagenicity.
Carcinogenicity, other information	No evidence for carcinogenicity.
Reproductive toxicity	No evidence for reproductive toxicity.
Assessment of specific target organ SE, classification	No evidence for STOT-single exposure.
Assessment of specific target organ toxicity RE, classification	No evidence for STOT-repeated exposure.

Symptoms of exposure

Symptoms of overexposure

No specific symptoms noted.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Disodium metasilicate, pentahydrate
Acute aquatic, fish	Value: 210 mg/l

Substance	Sodium carbonate
Acute aquatic, fish	Test duration: 96h Species: brachydanio rerio Method: LC 50 Test reference: Supplier MSDS
Substance	Sodium silicate
Acute aquatic, fish	Value: 300 mg/l Test duration: 96H Species: Lepomis macrochirus Method: LC50
Substance	Sodium silicate
Acute aquatic, fish	Value: 3185 mg/l Test duration: 96h Species: Brachydanio Rerio Method: LC50
Substance	C12-C14 Alkyl alcohol ethoxylate
Acute aquatic, fish	Value: 1 - 10 mg/L Test duration: 96h Species: Cyprinus carpio Method: OECD 203
Substance	C12-C14 Alkyl alcohol ethoxylate
Acute aquatic, algae	Value: 1 - 10 mg/L Test duration: 72h Species: Desmodesmus subspicatus Method: OECD 201
Substance	Disodium metasilicate, pentahydrate
Acute aquatic, Daphnia	Value: 1700 mg/l Test duration: 48h Species: Daphnia magna Method: EC50 Test reference: Supplier MSDS
Substance	Sodium carbonate
Acute aquatic, Daphnia	Value: 200 - 227 mg/l Test duration: 48H Species: Ceriodaphnia dubia Method: EC50
Substance	Sodium silicate
Acute aquatic, Daphnia	Value: 4857 mg/l Test duration: 48h Species: Daphnia Magna Method: EC50
Substance	C12-C14 Alkyl alcohol ethoxylate
Acute aquatic, Daphnia	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.
Aquatic, comments	No data available for the product.

12.2. Persistence and degradability

Substance	C12-C14 Alkyl alcohol ethoxylate
Biodegradability	Value: > 60 % Method: OECD 301 B Test period: 28d
Persistence and degradability, comments	The product is easily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential	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

PBT assessment results	Not Classified as PBT/vPvB by current EU criteria.
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12.6. Other adverse effects

Environmental details, summation	For this product no classification is required for environmental hazards.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point. Dispose of waste and residues in accordance with local authority requirements. -
EWC waste code	EWC waste code: 0706 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics Classified as hazardous waste: Yes
EWL packing	EWC waste code: 0706 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics Classified as hazardous waste: Yes
Other information	When handling waste, consideration should be made to the safety precautions applying to handling of the product. Waste code applies to product remnants in pure form.

SECTION 14: Transport information

Dangerous goods	Yes
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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
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14.6. Special precautions for user

Special safety precautions for user Not relevant.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**Additional information**

Additional information	Not relevant.
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ADR / RID - Other information

Hazard No.	80
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IMDG / ICAO / IATA Other information

EmS	F-A, S-B
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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
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SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	H272 May intensify fire; oxidiser. 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. 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.
Information added, deleted or revised	Change to Sections: 1, 16
Version	5
Prepared by	ALM