

NOVADAN®

SAFETY DATA SHEET

FOAM 17

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 02.04.2012

Revision date 25.08.2017

1.1. Product identifier

Product name FOAM 17

Article no. 12255, 12256, 12257

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

Use of the substance/preparation Acid Foam cleaning agent.

Relevant identified uses

- SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- SU4 Manufacture of food products
- SU22 Professional uses: publicly accessible (administration, education, entertainment, services, craftsmen)
- PC35 Washing and cleaning products (including solvent based products)
- PROC10 Roller application or brushing
- 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

Tel + 45 76 34 84 00

Fax + 45 75 50 43 70

E-mail 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 substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Skin Corr 1B; H314 Eye Dam. 1; H318
Substance / mixture hazardous properties	For further information, please refer to section 11.
Additional information on classification	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	Phosphoric acid
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

Description of hazard	In contact with compounds containing chlorine, toxic gases may form. Generates strong heat in contact with alkaline compounds, risk of bumping.
Health effect	Corrosive to skin and eyes. May cause permanent damage to the eyes, especially if the product is not washed away IMMEDIATELY. 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. The product contains a substance which is hazardous to aquatic organisms. See section 12 as well. This product does not contain any PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Phosphoric acid	CAS no.: 7664-38-2-A EC no.: 231-633-2 Index no.: 015-011-00-6 REACH Reg. No.: 01-2119485924-24-XXXX	Acute tox. 4; H302 Skin Corr 1B; H314 Eye Dam. 1; H318 Met. Corr. 1; H290	15 – 30 %

Methanesulphonic acid	CAS no.: 75-75-2 EC no.: 200-898-6 Index no.: 607-145-00-4 REACH Reg. No.: 01-2119491166-34-xxxx	Skin Corr 1B; H314 Met. Corr. 1; H290	1 – 5 %
Amines, C12-14 (even numbered)– alkyl dimethyl, N-oxides	CAS no.: 308062-28-4 EC no.: 931-292-6 REACH Reg. No.: 01-2119490061-47-xxxx	Acute tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	1 – 5 %
Substance comments	<5%: cationic surfactant 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	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. 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	Dam and absorb spillage with sand, sawdust or other absorbent. 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	Use work methods which minimize spreading of vapours, dust, smoke, aerosols, splashes etc. to the extent technically possible. Do not mix with hypochlorite containing products: toxic chlorine vapors may be formed.
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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 away from: Chlorine and Alkalis.
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Conditions for safe storage

Storage Temperature	Value: 0 – 35 °C
Storage Stability	Durability: 24 months.

7.3. Specific end use(s)

Specific use(s)	The identified uses for this product are detailed in Section 1.2.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Substance	Identification	Value	TWA Year
Phosphoric acid	CAS no.: 7664-38-2-A	TWA (8h): 1 mg/m ³ OEL Short Term Value Value: 2 mg/m ³	

Methanesulphonic acid	CAS no.: 75-75-2		
Amines, C12-14 (even numbered)– alkyl dimethyl, N-oxides	CAS no.: 308062-28-4		

DNEL / PNEC

Substance	Phosphoric acid
DNEL	Group: Worker Route of exposure: Long term (repeated) – Inhalation – Systemic effect Value: 10,7 mg/m³ Group: Consumer Route of exposure: Long term (repeated) – Oral – Systemic effect Value: 0,1 mg/kg bw/d Group: Consumer Route of exposure: Long term (repeated) – Inhalation – Systemic effect Value: 4,57 mg/m³ Group: Consumer Route of exposure: Long term (repeated) – Inhalation – Local effect Value: 0,36 mg/m³ Group: Worker Route of exposure: Short term (acute) – Inhalation – Local effect Value: 2 mg/m³ Group: Worker Route of exposure: Long term (repeated) – Inhalation – Local effect Value: 1 mg/m³
Substance	Methanesulphonic acid
DNEL	Group: Worker Route of exposure: Long term (repeated) – Dermal – Systemic effect Value: 19,44 mg/kg Comments: Supplier MSDS Group: Consumer Route of exposure: Short term (acute) – Inhalation – Systemic effect Value: 1,44 mg/m³ Comments: Supplier MSDS Group: Consumer Route of exposure: Long term (repeated) – Inhalation – Systemic effect Value: 1,44 mg/m³ Comments: Supplier MSDS Group: Worker Route of exposure: Long term (repeated) – Inhalation – Local effect Value: 2,89 mg/m³ Comments: Supplier MSDS

	Group: Consumer Route of exposure: Long term (repeated) – Dermal – Systemic effect Value: 8,33 mg/kg Comments: Supplier MSDS
PNEC	Route of exposure: Air Value: 0,12 mg/l Comments: Supplier MSDS Route of exposure: Sewage treatment plant STP Value: 100 mg/l Comments: Supplier MSDS Route of exposure: Soil Value: 0,00183 mg/kg Comments: Supplier MSDS Route of exposure: Sediment Value: 0,0251 mg/kg Comments: Fresh water, Supplier MSDS Route of exposure: Water Value: 0,0012 mg/l Comments: Sea water, Supplier MSDS Route of exposure: Water Value: 0,012 mg/l Comments: Fresh water, Supplier MSDS
Substance	Amines, C12-14 (even numbered)– alkyl dimethyl, N-oxides
DNEL	Group: Consumer Route of exposure: Long term (repeated) – Oral – Systemic effect Value: 0,44 mg/kg bw/d Group: Worker Route of exposure: Long term (repeated) – Dermal – Systemic effect Value: 11 mg/kg bw/d Group: Consumer Route of exposure: Long term (repeated) – Inhalation – Systemic effect Value: 3,8 mg/m³ Group: Worker Route of exposure: Long term (repeated) – Inhalation – Local effect Value: 15,5 mg/m³ 8h Group: Worker Route of exposure: Long term (repeated) – Dermal – Local effect Value: 0,27% Group: Consumer Route of exposure: Long term (repeated) – Dermal – Systemic effect Value: 5,5 mg/kg bw/d
PNEC	Route of exposure: Freshwater Value: 0,0335 mg/l Route of exposure: Saltwater Value: 0,00335 mg/l

Route of exposure: Sewage treatment plant STP

Value: 24 mg/kg

Route of exposure: Freshwater sediments

Value: 5,24 mg/kg

Route of exposure: Saltwater sediments

Value: 0,524 mg/kg

Route of exposure: Soil

Value: 1,02 mg/kg

Value: 0,0335 mg/l

Comments: (intermittent 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 approved safety goggles. (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 splashes. Wear rubber footwear.

Respiratory protection

Respiratory protection necessary at

In case of inadequate ventilation: Use respiratory equipment with combination filter, type B+E/P3. (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	Liquid.
Colour	Colourless.
Odour	No characteristic odour.
Odour limit	Comments: No data recorded.
pH	Status: In delivery state Value: < 1 Status: In aqueous solution Value: ~ 2 Comments: 2%
Melting point / melting range	Comments: No data recorded.
Freezing point	Value: -3 °C
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: ~ 1,10 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	Value: < 50 mPa s
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.

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.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Liberates toxic gases when mixed with chlorine containing products. Reacts with alkalis and generates heat. Reacts strongly with water. Do not add water directly to the product. It may cause a violent reaction. Risk of bumping (splashes).

10.4. Conditions to avoid

Conditions to avoid Strong alkalis. Chlorine containing products. Corrodes aluminum and other light metals, as well as zinc, brass, lead, tin, etc.

10.5. Incompatible materials

Materials to avoid Alkali-sensitive metals such as aluminium, tin, lead and zinc and alloys with these metals.

10.6. Hazardous decomposition products

Hazardous decomposition products During fire, toxic gases (CO, CO₂, NO_x) are formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Substance	Phosphoric acid
Acute toxicity	Type of toxicity: Acute Effect Tested: LD50 Route of exposure: Oral Value: 300-2000 mg/kg Animal test species: Rat Test reference: OECD 423 Type of toxicity: Acute Effect Tested: LD50 Route of exposure: Dermal Value: 2740 mg/kg Animal test species: Rabbit Comments: Supplier MSDS Type of toxicity: Acute Effect Tested: LC50 Route of exposure: Inhalation. Duration: 1h Value: 3846 mg/l Animal test species: Rat Comments: Supplier MSDS
Substance	Amines, C12-14 (even numbered)– alkylidimethyl, N-oxides
Acute toxicity	Type of toxicity: Acute Effect Tested: LD50 Route of exposure: Oral Value: 1064 mg/kg Animal test species: Rat

Other toxicological data	Toxicological tests on the product has not been performed.
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Other information regarding health hazards

Assessment of acute toxicity classification	No evidence for acute toxicity.
Inhalation	Aerosols may be corrosive. 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	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	No evidence for carcinogenicity.
Reproductive toxicity	No evidence for reproductive toxicity.
Assessment 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.
Assessment aspiration hazard classification	No evidence for aspiration hazard.

Symptoms of Exposure

Comments	No information.
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SECTION 12: Ecological information

12.1. Toxicity

Substance	Phosphoric acid
Acute aquatic, fish	Value: 98 – 106 mg/l Test duration: 96h Species: Lepomis macrochirus Test reference: Suppliser MSDS
Substance	Methanesulphonic acid
Acute aquatic, fish	Value: 10 – 100 mg/l Test duration: 96h Species: Oncorhynchus mykiss Method: LC50, OECD 203 Test reference: Supplier MSDS
Substance	Amines, C12-14 (even numbered)—alkyldimethyl, N-oxides
Acute aquatic, fish	Value: 2,67 mg/l Method: LC50
Substance	Phosphoric acid
Acute aquatic, algae	Value: > 100 mg/l Test duration: 72h

	Test reference: Supplier MSDS
Substance	Methanesulphonic acid
Acute aquatic, algae	Value: 10 – 100 mg/l Test duration: 72h Species: Selenastrum capricornutum Method: EC50, OECD 201 Test reference: Supplier MSDS
Substance	Amines, C12-14 (even numbered)– alkyldimethyl, N-oxides
Acute aquatic, algae	Value: 0,143 mg/l Method: LC50
Substance	Phosphoric acid
Acute aquatic, Daphnia	Value: > 100 mg/l Test duration: 48h Species: Daphnia Magna Test reference: Supplier MSDS
Substance	Methanesulphonic acid
Acute aquatic, Daphnia	Value: 10 – 100 mg/l Test duration: 48h Species: Daphnia Magna Method: EC50, OECD 202 Test reference: Supplier MSDS
Substance	Amines, C12-14 (even numbered)– alkyldimethyl, N-oxides
Acute aquatic, Daphnia	Value: 3,1 mg/l Method: LC50
Ecotoxicity	Large amounts of the product may affect the acidity (pH-factor) in water with possible risk of harmful effects to aquatic organisms. Contains a substance (Aquatic Acute 1; H400 or Aquatic Chronic 1; H410) that falls within the scope of the multiplication factor rule.
Aquatic, comments	No data available for the product.

12.2. Persistence and degradability

Substance	Methanesulphonic acid
Biodegradability	Value: > 70 % Method: OECD 301A
Persistence and degradability	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.

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

14.1. UN number

ADR / RID / ADN

3265

IMDG

3265

ICAO/IATA

3265

14.2. UN proper shipping name

Proper Shipping Name English
ADR/RID/ADN

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

ADR / RID / ADN

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

Technical name / Danger
releasing substance
ADR/RID/ADN

Phosphoric acid, Methanesulphonic acid

IMDG

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

Technical name / Danger
releasing substance IMDG

Phosphoric acid, Methanesulphonic acid

ICAO/IATA

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

Technical name / Danger
releasing substance ICAO

Phosphoric acid, Methanesulphonic acid

14.3. Transport hazard class(es)

ADR / RID / ADN

8

Class Code ADR / RID / ADN

C3

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.
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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Product name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
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Additional information.

ADR / RID / ADN Hazard label	8
IMDG Hazard label	8
ICAO /IATA Hazard label	8
Additional information.	Not relevant.

ADR / RID - Other information

Tunnel restriction code	E
Transport category	3
Hazard no.	80
RID Other applicable information	80

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). 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).

EH40/2005, Workplace exposure limits 2005, with amendments.

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.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

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

Skin Corr 1B; H314
Eye Dam. 1; H318

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: 2-5%: H314 Causes severe skin burns and eye damage.

Information which has been added, deleted or revised

Change to Sections: 1, 2, 4, 9, 11, 15, 16

Prepared by

ALM