

NOVADAN®**SAFETY DATA SHEET**
Foam 19 T**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 03.04.2012

Revision date 14.04.2016

1.1. Product identifier

Product name Foam 19 T

Article no. 12787, 12788, 12789, 12791, 13100

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
- PC35 Washing and cleaning products (including solvent based products)
- PROC10 Roller application or brushing
- PROC11 Non-industrial spraying
- 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 <http://www.novadan.dk>**1.4. Emergency telephone number**

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

UK: NHS:111

SECTION 2: Hazards identification**2.1. Classification of substance or mixture**

Classification according to 67/548/EEC or 1999/45/EC C; R34

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS] Skin Corr 1B;H314;
Eye Dam. 1;H318;

Substance / mixture hazardous For further information, please refer to section 11.

Revision date 14.04.2016

properties

2.2. Label elements**Hazard Pictograms (CLP)**

Composition on the label	Phosphoric acid, Acetic acid
Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage.
Precautionary statements	P261 Avoid breathing spray/mist. 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. In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea. 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
Phosphoric acid	CAS no.: 7664-38-2 EC no.: 231-633-2 Index no.: 015-011-00-6 Registration number: 01-2119485924-24-XXXX	C; R34 Skin Corr. 1B; H314; Met. Corr. 1; H290;	15 - 30 %
Acetic acid ...%	CAS no.: 64-19-7 EC no.: 200-580-7 Index no.: 607-002-00-6 Registration number: 01-2119475328-30-XXXX Synonyms: Eddikesyre	R10 C; R35 Flam. Liq. 3; H226 Skin Corr. 1A; H314 Note : B	1 - 5 %
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	CAS no.: 308062-28-4 EC no.: 931-292-6 Registration number: 01-2119490061-47-xxxx	Xi; R38,R41 N; R50 Xn; R22 Acute tox. 4; H302; Skin Irrit. 2; H315; Eye Dam. 1; H318; Aquatic Acute 1; H400; Aquatic Chronic 2; H411;	1 - 5 %

		M-factor:1	
Citric acid, monohydrate	CAS no.: 5949-29-1 EC no.: 201-069-1 Registration number: 01-2119457026-42-xxxx	Xi; R36 Eye Irrit. 2; H319;	1 - 5 %
2-(2-Butoxyethoxy)etanol	CAS no.: 112-34-5 EC no.: 203-961-6	Xi; R36 Eye Irrit. 2;H319	1 - 5 %
Dipropyleneglycolmonomethylether	CAS no.: 34590-94-8 EC no.: 252-104-2	Note : Sk	1 - 5 %
Substance comments	- 5-15%: cationic surfactant , <5%: nonionic surfactant , anionic 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	As described in section 2.2 and 2.3.
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 respiratory protection. 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	Avoid inhalation of vapours and contact with skin and eyes. Do not mix with hypochlorite containing products: toxic chlorine vapors may be formed. Use work methods which minimize spreading of vapours, dust, smoke, aerosols, splashes etc. to the extent technically possible.
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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: -15-35 °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.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limit values

Substance	Identification	Value	TWA Year
Phosphoric acid	CAS no.: 7664-38-2 EC no.: 231-633-2 Index no.: 015-011-00-6 Registration number: 01-2119485924-24-XXXX	8-hour TWA: 1 mg/m3	2011
Acetic acid ...%	CAS no.: 64-19-7 EC no.: 200-580-7 Index no.: 607-002-00-6 Registration number: 01-2119475328-30-XXXX Synonyms: Eddikesyre	8-hour TWA: 10 ppm 8-hour TWA: 25 mg/m3	2011
Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	CAS no.: 308062-28-4 EC no.: 931-292-6 Registration number: 01-2119490061-47-xxxx		
Citric acid, monohydrate	CAS no.: 5949-29-1 EC no.: 201-069-1		

	Registration number: 01-2119457026-42-xxxx		
2-(2-Butoxyethoxy)etanol	CAS no.: 112-34-5 EC no.: 203-961-6	8-hour TWA: 100 mg/m3	2007
Dipropyleneglycolmonomethylether	CAS no.: 34590-94-8 EC no.: 252-104-2	8-hour TWA: 308 mg/m3 8-hour TWA: 50 ppm	2005

DNEL / PNEC from substances

Substance	Phosphoric acid
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Local effect Value: 2,92 mg/m3 Remarks: Supplier MSDS
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Local effect Value: 0,73 mg/m3 Remarks: Supplier MSDS
Substance	Acetic acid ...%
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Local effect Value: 25 mg/m ³ Remarks: ECHA
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Short term (acute) Type of effect: Local effect Value: 25 mg/m ³ Remarks: ECHA
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Local effect Value: 25 mg/m ³ Remarks: ECHA
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Short term (acute) Type of effect: Local effect Value: 25 mg/m ³ Remarks: ECHA
Substance	Amines, C12-14 (even numbered)- alkyl dimethyl, N-oxides
DNEL	Group: Worker Exposure route: Dermal Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 11 mg/kg bw/d
DNEL	Group: Worker Exposure route: Inhalation Exposure frequency: Long term (repeated)

	Type of effect: Local effect Value: 15,5 mg/m ³ 8h
DNEL	Group: Worker Exposure route: Dermal Exposure frequency: Long term (repeated) Type of effect: Local effect Value: 0,27%
DNEL	Group: Consumer Exposure route: Dermal Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 5,5 mg/kg bw/d
DNEL	Group: Consumer Exposure route: Inhalation Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 3,8 mg/m ³
DNEL	Group: Consumer Exposure route: Oral Exposure frequency: Long term (repeated) Type of effect: Systemic effect Value: 0,44 mg/kg bw/d
PNEC	Exposure route: Freshwater Value: 0,0335 mg/l
PNEC	Exposure route: Saltwater Value: 0,00335 mg/l
PNEC	Value: 0,0335 mg/l Remarks: (intermittent release)
PNEC	Exposure route: Freshwater sediments Value: 5,24 mg/kg
PNEC	Exposure route: Saltwater sediments Value: 0,524 mg/kg
PNEC	Exposure route: Soil Value: 1,02 mg/kg
PNEC	Exposure route: Sewage treatment plant STP Value: 24 mg/kg

8.2. Exposure controls

Limitation of exposure on workplace

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.

Safety signs



Respiratory protection

Respiratory protection

In case of inadequate ventilation use suitable respirator. Use respiratory equipment with combination filter, type A2/P2.

Hand protection

Hand protection

Breakthrough time

Use protective gloves made of: Butyl rubber. Neoprene. Nitrile.

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.

Eye / face protection

Eye protection Wear approved safety goggles. (EN 166).

Skin protection

Skin protection (except hands) Wear apron or protective clothing in case of contact. Wear rubber footwear.

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	Characteristic.
Comments, Odour limit	No data recorded.
pH (as supplied)	Value: < 1,0
pH (aqueous solution)	Value: ~ 2
Comments, pH (aqueous solution)	1%.
Comments, Melting point / melting range	No data recorded.
Comments, Boiling point / boiling range	No data recorded.
Comments, Flash point	Not relevant.
Comments, Evaporation rate	No data recorded.
Flammability (solid, gas)	Not relevant.
Comments, Explosion limit	Not relevant.
Comments, Vapour pressure	No data recorded.
Comments, Vapour density	No data recorded.
Specific gravity	Value: ~ 1,15 kg/l.
Solubility description	Completely soluble in water.
Comments, Partition coefficient: n-octanol / water	No data recorded.
Comments, Spontaneous combustability	Not relevant.
Comments, Decomposition temperature	Not relevant.
Viscosity	Value: < 30 mPas.
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.

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	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).
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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.
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10.5. Incompatible materials

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

Hazardous decomposition products	During fire, toxic gases (CO, CO ₂ , NO _x) are formed.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological Information:

Other toxicological data	Toxicological tests on the product has not been performed.
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Toxicological data for substances

Substance	Phosphoric acid
LD50 oral	Value: 2600 mg/kg Animal test species: Rat Comments: Supplier MSDS
LD50 dermal	Value: 2740 mg/kg Animal test species: Rabbit Comments: Supplier MSDS
LC50 inhalation	Value: 3846 mg/l Animal test species: Rat Duration: 1h Comments: Supplier MSDS
Skin corrosion / irritation	Species: Rabbit. Result: Corrosive to skin. Method of testing: Not known.
Serious eye damage / irritation	Species: Not known. Result: Corrosive to eyes. Method of testing: Not known.
Respiratory or skin sensitisation	Species: Not known. Result: Not Sensitising. Method of testing: Not known.
Substance	Acetic acid ...%
LD50 oral	Value: 3530 mg/kg Animal test species: rat Duration: single dose Test reference: - Comments: ECHA
LD50 dermal	Value: > 2000 mg/kg Animal test species: rabbit Duration: - Test reference: - Comments: HSDB
LC50 inhalation	Value: 5620 ppm Animal test species: mouse Duration: 1 h Test reference: -

	Comments: ECHA
Skin corrosion / irritation	Species: Not known. Result: Corrosive to skin. Method of testing: Not known.
Serious eye damage / irritation	Species: Not known. Result: Corrosive to eyes. Method of testing: Not known.
Respiratory or skin sensitisation	Result: Not Sensitising.
Substance	Amines, C12-14 (even numbered)- alkyldimethyl, N-oxides
LD50 oral	Value: 1064 mg/kg Animal test species: Rat
Skin corrosion / irritation	Species: Not known. Result: Skin irritation. Method of testing: Not known.
Serious eye damage / irritation	Species: Not known. Result: Irreversible eye damage. Method of testing: Not known.
Respiratory or skin sensitisation	Species: Not known. Result: Not Sensitising. Method of testing: Not known.
Substance	Citric acid, monohydrate
LD50 oral	Value: 3000 mg/kg Animal test species: Rat
LD50 oral	Value: 5400 mg/kg Animal test species: Mice
Skin corrosion / irritation	Species: Not known. Result: Non irritation to skin. Method of testing: Not known.
Serious eye damage / irritation	Species: Not known. Result: Irritation to eye. Method of testing: Not known.
Respiratory or skin sensitisation	Species: Not known. Result: Not Sensitising. Method of testing: Not known.
Substance	2-(2-Butoxyethoxy)etanol
LD50 oral	Value: 5660 mg/kg Animal test species: rat
LD50 dermal	Value: 2700 mg/kg Animal test species: rabbit

Other information regarding health hazards

General	This substance is corrosive.
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Acute toxicity, Mixture estimate

Assessment of acute toxicity classification	No evidence for acute toxicity.
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Potential acute effects

Inhalation	Aerosols may be corrosive. Inhalation may cause: Serious damage to the lining of nose, throat and lungs. In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea.
Skin contact	Corrosive. Prolonged contact causes serious tissue damage.
Eye contact	Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.
Ingestion	Corrosive. Even small amounts may cause serious damage. May cause burns in mucous membranes, throat, oesophagus and stomach.
Aspiration hazard	No evidence for aspiration hazard.

Delayed effects / repeated exposure

Sensitisation	No evidence for respiratory nor skin sensitization.
STOT-single exposure	No evidence for STOT-single exposure.
STOT-repeated exposure	No evidence for STOT-repeated exposure.

Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity	No evidence for carcinogenicity.
Mutagenicity	No evidence for germ cell mutagenicity.
Reproductive toxicity	No evidence for reproductive toxicity.

Symptoms of Exposure

Symptoms of overexposure No specific symptoms noted.

SECTION 12: Ecological information

12.1. Toxicity

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.

Toxicological data for substances

Substance	Phosphoric acid
Acute aquatic, fish	Value: 98-106 mg/l Species: Lepomis macrochirus Duration: 96h Test reference: Suppliser MSDS
Acute aquatic, algae	Value: > 100 mg/l Duration: 72h Test reference: Supplier MSDS
Acute aquatic, Daphnia	Value: > 100 mg/l Species: Daphnia Magna Duration: 48h Test reference: Supplier MSDS
Mobility, description	Mobility, description: The product is miscible with water. May spread in water systems.
Persistence and degradability	Not relevant.
Bioaccumulation	Bioaccumulation: Is not expected to be bioaccumulable.
Result of PBT assessment for the substance	Not Classified as PBT/vPvB by current EU criteria.
Substance	Acetic acid ...%
Acute aquatic, fish	Value: 301 mg/l Method of testing: LC50
Acute aquatic, algae	Value: 301 mg/l Method of testing: LC50
Mobility, description	Mobility, description: The product is miscible with water. May spread in water systems.
Persistence and degradability	The product is easily biodegradable.
Bioaccumulation	Bioaccumulation: Is not expected to be bioaccumulable.
Substance	Amines, C12-14 (even numbered)- alkyl dimethyl, N-oxides
Acute aquatic, fish	Value: 2,67 mg/l Method of testing: LC50
Acute aquatic, algae	Value: 0,143 mg/l Method of testing: LC50
Acute aquatic, Daphnia	Value: 3,1 mg/l Method of testing: LC50
Mobility, description	Mobility, description: The product is miscible with water. May spread in water systems.
Persistence and degradability	The product is easily biodegradable.
Bioaccumulation	Bioaccumulation: Is not expected to be bioaccumulable.
Result of PBT assessment for the substance	Not Classified as PBT/vPvB by current EU criteria.
Substance	Citric acid, monohydrate
Acute aquatic, fish	Method of testing: LC50 Species: Leuciscus idus Duration: 96h

Acute aquatic, algae	Value: 640 mg/L Method of testing: EC0 Species: Scenedesmus quadricauda Duration: 168h
Acute aquatic, Daphnia	Value: 120 mg/L Method of testing: EC100 Species: Daphnia Magna Duration: 72h
Mobility, description	Mobility, description: The product is miscible with water. May spread in water systems.
Persistence and degradability	The product is easily biodegradable.
Biodegradability	Test period: 28d Method of testing: OECD 301B
Bioaccumulation	Bioaccumulation: Is not expected to be bioaccumulable.
Result of PBT assessment for the substance	Not Classified as PBT/vPvB by current EU criteria.
Substance	2-(2-Butoxyethoxy)etanol
Acute aquatic, fish	Method of testing: LC50 Species: Fish Duration: 48h
Acute aquatic, Daphnia	Value: 3200 mg/l Method of testing: EC50 Species: Daphnia Duration: 24h
Persistence and degradability	Bio-degradable
Bioaccumulation	LogPow: 0,56

12.2. Persistence and degradability

Chemical oxygen demand (COD)	Value: < 250 mg O ₂ /g
Persistence and degradability	The product is easily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential	Bioaccumulation: Is not expected to be bioaccumulable.
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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. -
Product classified as hazardous waste	Yes
Packaging classified as hazardous waste	Yes
EWC waste code	EWC: 0706 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
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.
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SECTION 14: Transport information

14.1. UN number

ADR / RID / ADN	3265
RID	3265
IMDG	3265
ICAO/IATA	3265

14.2. UN proper shipping name

ADR	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phosphoric acid, Acetic acid)
RID	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phosphoric acid, Acetic acid)
IMDG	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phosphoric acid, Acetic acid)
ICAO/IATA	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phosphoric acid, Acetic acid)

14.3. Transport hazard class(es)

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

14.4. Packing group

ADR	III
RID	III
IMDG	III
ICAO/IATA	III

14.5. Environmental hazards

IMDG Marine pollutant	No
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14.6. Special precautions for user

EmS	F-A, S-B
Special safety precautions for user	Not relevant.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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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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.
 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. EH40/2005, Workplace exposure limits 2005, with amendments.

15.2. Chemical safety assessment

Chemical safety assessment performed

No

SECTION 16: Other information

Hazard symbol



R-phrases

R34 Causes burns.

S-phrases

S23 Do not breathe vapour and spray.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S51 Use only in well-ventilated areas.

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

Skin Corr 1B; H314;

Eye Dam. 1; H318;

List of relevant R-phrases (under headings 2 and 3).

R36 Irritating to eyes.

R50 Very toxic to aquatic organisms.

R41 Risk of serious damage to eyes.

R38 Irritating to skin.

R34 Causes burns.

R35 Causes severe burns.

R22 Harmful if swallowed.

R10 Flammable.

List of relevant H-phrases (Section 2 and 3).

H318 Causes Serious eye damage.

H302 Harmful if swallowed.

H290 May be corrosive to metals.

H226 Flammable liquid and vapour.

H400 Very toxic to aquatic life.

H315 Causes skin irritation.

H314 Causes severe skin burns and eye damage.

H411 Toxic to aquatic life with long lasting effects.

H319 Causes serious eye irritation.

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 which has been added, deleted or revised	Change to Sections: 1, 11, 15, 16
Version	5
Responsible for safety data sheet	Novadan ApS
Prepared by	MP