

NOVADAN®**SAFETY DATA SHEET****Cip Acid Clean****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 20.06.2016

Revision date 04.01.2021

1.1. Product identifier

Product name Cip Acid Clean

UFI 1740-702N-E003-81PY

Article no. 25120

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

Use of the substance / preparation Acidic CIP cleaning agent.

Main intended use PC-CLN-OTH Other cleaning, care and maintenance products (excludes biocidal products)

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)
- PROC2 Use in closed, continuous process with occasional controlled exposure
- PROC7 Industrial spraying
- ERC8A Wide dispersive indoor use of processing aids in open systems
- ERC8D Wide dispersive outdoor 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
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Skin Corr. 1C; H314; Calculation method Eye Dam. 1; H318; Calculation method
CLP classification, comments	Classification and marking have been performed on the basis of the product's extreme pH value.
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

Health effect	Corrosive to skin and eyes. May cause permanent damage to the eyes, especially if the product is not washed away IMMEDIATELY. Spray mists irritate the respiratory system, and cause coughing and difficulties in breathing.
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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
Phosphoric acid	CAS No.: 7664-38-2	Skin Corr. 1B; H314	15 – 30 %	
	EC No.: 231-633-2	Eye Dam. 1; H318		
	Index No.: 015-011-00-6	Met. Corr. 1; H290		
	REACH Reg. No.:	Acute tox. 4; H302		
	01-2119485924-24-XXXX			
Citric acid	CAS No.: 77-92-9	Eye Irrit. 2; H319	5 – 15 %	
	EC No.: 201-069-1			
	REACH Reg. No.:			
	01-2119457026-42-xxxx			
Oxalic acid	CAS No.: 6153-56-6	Eye Dam. 1; H318	1 – 5 %	
	EC No.: 205-634-3	Acute tox. 4; H302		
	REACH Reg. No.:	Acute tox. 4; H312		
	02-2119675260-42-xxxx			
Amines, C12-14 (even numbered) – alkyldimethyl, N-oxides	CAS No.: 308062-28-4	Acute Tox. 4; H302	1 – 5 %	
	EC No.: 931-292-6	Skin Irrit. 2; H315		
	REACH Reg. No.:	Eye Dam. 1; H318		
	01-2119490061-47-xxxx	Aquatic Acute 1; H400		
		Aquatic Chronic 2; H411		
Diethylene glycol monobutyl ether	CAS No.: 112-34-5	Eye Irrit. 2; H319;	1 – 5 %	
	EC No.: 203-961-6			
	Index No.: 603-096-00-8			
Substance comments	-			
		Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents: <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

Ingestion	eye specialist. Continue flushing during transport to hospital. 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.

6.4. Reference to other sections

Other instructions See section 8 and section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling Avoid spilling, skin and eye contact. Do not mix with Chlorine. Use work methods which minimize spreading of vapours, dust, smoke, aerosols, splashes etc. to the extent technically possible.

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 away from: Chlorine Alkalis. Store the product away from direct sunlight in opaque containers.

Conditions for safe storage

Storage temperature Value: -5 – 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
Phosphoric acid	CAS No.: 7664-38-2	Limit value (8 h) : 1 mg/m ³	TWA Year: 2011
Oxalic acid	CAS No.: 6153-56-6	Limit value (8 h) : 1 mg/m ³	
Diethylene glycol monobutyl ether	CAS No.: 112-34-5	Limit value (8 h) : 10 ppm Limit value (8 h) : 67,5 mg/m ³	
		Limit value (short term) Value: 15 ppm	
		Limit value (short term) Value: 101,2 mg/m ³	

DNEL / PNEC

Substance	Phosphoric acid
DNEL	<p>Group: Professional Route of exposure: Lang sigt (gentages) – Indånding – Lokal effekt Value: 1 mg/m³</p> <p>Group: Professional Route of exposure: Lang sigt (gentages) – Indånding – Systemisk virkning Value: 10,7 mg/m³</p> <p>Group: Professional Route of exposure: Kort sigt (akut) – Indånding – Lokal effekt Value: 2 mg/m³</p> <p>Group: Consumer Route of exposure: Lang sigt (gentages) – Oral – Systemisk virkning Value: 0,1 mg/kg bw/d</p> <p>Group: Consumer Route of exposure: Lang sigt (gentages) – Indånding – Systemisk virkning Value: 4,57 mg/m³</p> <p>Group: Consumer Route of exposure: Lang sigt (gentages) – Indånding – Lokal effekt Value: 0,36 mg/m³</p>

Substance	Citric acid
PNEC	<p>Route of exposure: Soil Value: 33,1 mg/kg</p> <p>Route of exposure: Saltwater sediments Value: 34,6 mg/kg</p> <p>Route of exposure: Freshwater sediments Value: 3,46 mg/kg</p> <p>Route of exposure: Saltwater Value: 0,044 mg/l</p> <p>Route of exposure: Freshwater Value: 0,44 mg/l</p> <p>Route of exposure: Sewage treatment plant STP Value: > 1000 mg/l</p>

Substance	Oxalic acid
DNEL	<p>Group: Professional Route of exposure: Acute dermal (local) Value: 0,69 mg/cm²</p> <p>Group: Professional Route of exposure: Long-term inhalation (systemic) Value: 3,11 mg/m³</p> <p>Group: Professional Route of exposure: Long-term dermal (systemic)</p>

	<p>Value: 0,88 mg/kg bw/day</p> <p>Group: Consumer Route of exposure: Acute dermal (local) Value: 0,35 mg/cm²</p> <p>Group: Consumer Route of exposure: Long-term dermal (systemic) Value: 0,315 mg/kg bw/day</p> <p>Group: Consumer Route of exposure: Long-term oral (systemic) Value: 0,315 mg/kg bw/day</p> <p>Group: Consumer Route of exposure: Long-term inhalation (systemic) Value: 0,466 mg/m³</p>
PNEC	<p>Route of exposure: Saltwater Value: 0,016 mg/l</p> <p>Route of exposure: Freshwater Value: 0,16 mg/l</p>
Substance	Amines, C12-14 (even numbered)– alkyldimethyl, N-oxides
DNEL	<p>Group: Professional Route of exposure: Long-term inhalation (systemic) Value: 6,2 mg/m³</p> <p>Group: Professional Route of exposure: Long-term dermal (systemic) Value: 11 mg/kg bw/day</p> <p>Group: Consumer Route of exposure: Long-term inhalation (systemic) Value: 1,53 mg/m³</p> <p>Group: Consumer Route of exposure: Long-term dermal (systemic) Value: 5,5 mg/kg bw/day</p> <p>Group: Consumer Route of exposure: Long-term oral (systemic) Value: 0,44 mg/kg bw/day</p>
PNEC	<p>Route of exposure: Freshwater Value: 0,034 mg/l</p> <p>Route of exposure: Saltwater Value: 0,003 mg/l</p> <p>Route of exposure: Freshwater sediments Value: 5,24 mg/kg dw</p> <p>Route of exposure: Saltwater sediments Value: 0,524 mg/kg dw</p>

Route of exposure: Soil

Value: 1,02 mg/kg dw

Route of exposure: Sewage treatment plant STP

Value: 24 mg/l

Route of exposure: Food products

Value: 11,1 mg/kg

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. $\geq 0,7$ mm
Neoprene. $\geq 0,5$ 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. Wear rubber footwear.

Respiratory protection

Respiratory protection necessary at

Under normal conditions of use respiration protection should not be required. In case of inadequate ventilation: Use 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	Liquid.
Colour	Colourless.
Odour	Characteristic. Slightly pungent odour.
pH	Status: In delivery state Value: ~ 1,0 Status: In aqueous solution Value: ~ 2,0 Comments: 15°dH Concentration: 1 %
Melting point / melting range	Comments: Not relevant.
Freezing point	Value: -10 °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.
Relative density	Value: ~ 1,15 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	Value: < 50 mPa s
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.

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.

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	<p>Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: 1282 mg/kg Animal test species: Rat Test reference: OECD 423</p> <p>Type of toxicity: Acute Effect tested: LD50 Route of exposure: Dermal Value: 2740 mg/kg Animal test species: Rabbit</p> <p>Type of toxicity: Acute Effect tested: LC50 Route of exposure: Inhalation. Duration: 1h Value: 3846 mg/l Animal test species: Rat</p>
Substance	Citric acid

Acute toxicity
Type of toxicity: Acute
Effect tested: LD50
Route of exposure: Oral
Value: 5400 mg/kg
Animal test species: Mouse.

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

Substance

Oxalic acid

Acute toxicity

Type of toxicity: Acute
Effect tested: LD50
Route of exposure: Oral
Value: > 375 mg/kg
Animal test species: Rat

Type of toxicity: Acute
Effect tested: LD50
Route of exposure: Dermal
Value: > 20.000 mg/kg
Animal test species: Rabbit

Substance

Amines, C12-14 (even numbered)– alkyldimethyl, N-oxides

Acute toxicity

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.

Other information regarding health hazards

Assessment of acute toxicity, classification
 No evidence for acute toxicity.

Substance

Phosphoric acid

Skin corrosion / irritation test result

Toxicity type: Skin corrosion
Method: Not known.
Species: Rabbit.
Evaluation result: Corrosive to skin.

Substance

Phosphoric acid

Eye damage or irritation, test results

Toxicity type: Eye damage
Method: Not known.
Species: Not known.
Evaluation result: Result: Corrosive to eyes.

Substance

Phosphoric acid

Respiratory or skin sensitisation

Toxicity type: Skin sensitivity
Method: Not known.
Species: Not known.
Evaluation result: Not Sensitising.

Inhalation	Aerosols may be corrosive.
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.
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.

Symptoms of exposure

Symptoms of overexposure	No specific symptoms noted.
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11.2.2 Other information

Endocrine disruption	No evidence for endocrine disrupting properties.
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SECTION 12: Ecological information

12.1. Toxicity

Substance	Phosphoric acid
Aquatic toxicity, fish	Value: 98 – 106 mg/l Test duration: 96h Species: Lepomis macrochirus Test reference: Suppliser MSDS
Substance	Citric acid
Aquatic toxicity, fish	Value: 440 mg/l Test duration: 48 hour(s) Species: Leuciscus idus melanotus Method: LC50
Substance	Oxalic acid
Aquatic toxicity, fish	Value: 160 mg/l Test duration: 48h Species: Carassius auratus

Substance	Method: LC50
Aquatic toxicity, fish	Amines, C12-14 (even numbered)– alkyldimethyl, N-oxides Toxicity type: Acute Value: 1,26 mg/l Exposure time: 96 hour(s) Species: Oncorhynchus mykiss Method: LC50, OECD 203 Toxicity type: Chronic Value: 0,42 mg/l Species: Pimephales promelas
Substance	Phosphoric acid
Aquatic toxicity, algae	Value: > 100 mg/l Test duration: 72h Test reference: Supplier MSDS
Substance	Citric acid
Aquatic toxicity, algae	Toxicity type: Acute Value: 425 mg/l Test duration: 8 day(s) Species: Scenedesmus quadricauda Method: NOEC
Substance	Amines, C12-14 (even numbered)– alkyldimethyl, N-oxides
Aquatic toxicity, algae	Toxicity type: Acute Value: 0,19 mg/l Test duration: 72 hour(s) Species: Pseudokirchneriella subcapitata Method: ErC 50 Toxicity type: Chronic Value: 0,067 mg/l Test duration: 28 day(s) Species: Periphyton Method: NOEC
Substance	Phosphoric acid
Aquatic toxicity, crustacean	Value: > 100 mg/l Test duration: 48h Species: Daphnia Magna Test reference: Supplier MSDS
Substance	Citric acid
Aquatic toxicity, crustacean	Value: 1535 mg/l Test duration: 24 hour(s) Species: Daphnia magna Method: LC50
Substance	Oxalic acid
Aquatic toxicity, crustacean	Value: 162,2 mg/l Test duration: 48h Species: Daphnia magna

	Method: EC50
Substance	Amines, C12-14 (even numbered)– alkyldimethyl, N-oxides
Aquatic toxicity, crustacean	Toxicity type: Acute Value: 2,9 mg/l Exposure time: 48 hour(s) Species: Daphnia magna Method: EC50 OECD TG 202
	Toxicity type: Chronic Value: 0,70 mg/l Exposure time: 21 day(s) Species: Daphnia magna Method: OECD 211 NOEC
Ecotoxicity	Large amounts of the product may affect the acidity (pH-factor) in water with possible risk of harmful effects to aquatic organisms.

12.2. Persistence and degradability

Persistence and degradability description/evaluation	The product is easily biodegradable.
Substance	Citric acid
Biodegradability	Value: 97 % Method: OECD 301B Test period: 28 day(s)

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

12.7. Other adverse effects

Potential endocrine disruptor	Comments: No evidence for endocrine disrupting properties.
Additional ecological information	For this product no classification is required for environmental hazards.

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. 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.
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	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.

SECTION 14: Transport information

Dangerous goods	Yes
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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.
Technical name/Danger releasing substance English ADR/RID/ADN	Oxalic acid, Phosphoric acid
ADR/RID/ADN	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Technical name/danger releasing substance ADR/RID/ADN	Oxalic acid, Phosphoric acid
IMDG	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Technical name/danger releasing substance IMDG	Oxalic acid, Phosphoric acid
ICAO/IATA	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Technical name/danger releasing substance ICAO/IATA	Oxalic acid, Phosphoric acid

14.3. Transport hazard class(es)

ADR/RID/ADN	8
Classification 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	Nej
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14.6. Special precautions for user

Special safety precautions for user Not relevant.

14.7. Maritime transport in bulk according to IMO instruments

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

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

ADR/RID Other information

Tunnel restriction code	E
Transport category	3
Hazard No.	80
Other applicable information ADR/ RID	80

IMDG 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

SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	H290 May be corrosive to metals. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H411 Toxic 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: 1-5% H314 Causes severe skin burns and eye damage.
Information added, deleted or revised	Change to Sections: 1, 2, 7, 8, 9, 11, 12, 13, 16
Version	1
Prepared by	ALM