

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Revision Date 12.11.2019

Version 2.1

SECTION 1. Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Catalogue No.	EX0996
Product name	Extran® 300 Detergent Phosphate-Free
REACH Registration Number	This product is a mixture. REACH Registration Number see section 3.

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

Identified uses	Reagent for analysis For additional information on uses please refer to the Merck Chemicals portal (www.merckgroup.com).
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1.3 Details of the supplier of the safety data sheet

Company	Merck KGaA * 64271 Darmstadt * Germany * Phone: +49 6151 72-0
Responsible Department	LS-QHC * e-mail: prodsafe@merckgroup.com
Regional representation	This information is given on the authorised Safety Data Sheet for your country.

1.4 Emergency telephone number Please contact the regional Merck representation in your country.**SECTION 2. Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Corrosive to metals, Category 1, H290
Skin corrosion, Category 1B, H314
Specific target organ toxicity - single exposure, Category 3, Respiratory system, H335
For the full text of the H-Statements mentioned in this Section, see Section 16.

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Catalogue No.
Product name

EX0996
Extran® 300 Detergent Phosphate-Free

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

Danger

Hazard statements

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

Precautionary statements

Prevention

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

Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/
physician.

Reduced labelling (≤125 ml)

Hazard pictograms



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.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
lenses, if present and easy to do. Continue rinsing.
P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

Contains: ethanolamine

2.3 Other hazards

None known.

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SECTION 3. Composition/information on ingredients

Chemical nature Aqueous solution of inorganic and organic compounds.

3.1 Substance

Not applicable

3.2 Mixture

Hazardous components (REGULATION (EC) No 1272/2008)

Chemical name (Concentration)

CAS-No.	Registration number	Classification
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ethanolamine ($\geq 10\%$ - $< 20\%$)

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

141-43-5	01-2119486455-28-XXXX	Acute toxicity, Category 4, H302 Acute toxicity, Category 4, H332 Acute toxicity, Category 4, H312 Skin corrosion, Category 1B, H314 Specific target organ toxicity - single exposure, Category 3, H335 Long-term (chronic) aquatic hazard, Category 3, H412
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Ethylenedinitrilotetraacetic acid disodium salt ($\geq 1\%$ - $< 10\%$)

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

139-33-3	01-2119486775-20-XXXX	Acute toxicity, Category 4, H332 Specific target organ toxicity - repeated exposure, Category 2, H373
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sodium hydroxide ($\geq 1\%$ - $< 2\%$)

PBT/vPvB: Not applicable for inorganic substances

1310-73-2	01-2119457892-27-XXXX	Corrosive to metals, Category 1, H290 Skin corrosion, Category 1A, H314
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polyethyleneglycoldodecyl ether with >5-20 mol ethylene oxide ($\geq 0,25\%$ - $< 1\%$)

9002-92-0	*)	Serious eye damage, Category 1, H318 Short-term (acute) aquatic hazard, Category 1, H400
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*) A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

For the full text of the H-Statements mentioned in this Section, see Section 16.

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SECTION 4. First aid measures

4.1 Description of first aid measures

General advice

First aider needs to protect himself.

After inhalation: fresh air. Call in physician.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed

Risk of blindness!

Irritation and corrosion, Cough, Shortness of breath

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water, Foam, Carbon dioxide (CO₂), Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Mixture with combustible ingredients.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

Fire may cause evolution of:
nitrogen oxides

5.3 Advice for firefighters

Special protective equipment for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

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Further information

Remove container from danger zone and cool with water. Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent and neutralising material (e.g. Chemizorb® OH⁻, Merck Art. No. 101596). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Observe label precautions.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

No metal containers.

Storage conditions

Tightly closed.

Recommended storage temperature see product label.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL)

ethanolamine (141-43-5)

Worker DNEL, longterm	Systemic effects	dermal	1 mg/kg Body weight
Worker DNEL, longterm	Local effects	inhalation	3,3 mg/m ³
Consumer DNEL, longterm	Systemic effects	dermal	0,24 mg/kg Body weight
Consumer DNEL, longterm	Local and systemic effects	inhalation	2 mg/m ³
Consumer DNEL, longterm	Systemic effects	oral	3,75 mg/kg Body weight

Ethylenedinitrilotetraacetic acid disodium salt (139-33-3)

Worker DNEL, acute	Local effects	inhalation	3 mg/m ³
Worker DNEL, longterm	Local effects	inhalation	1,5 mg/m ³
Consumer DNEL, acute	Local effects	inhalation	1,2 mg/m ³
Consumer DNEL, longterm	Local effects	inhalation	0,6 mg/m ³
Consumer DNEL, longterm	Systemic effects	oral	25 mg/kg Body weight

sodium hydroxide (1310-73-2)

Worker DNEL, longterm	Local effects	inhalation	1 mg/m ³
Consumer DNEL, longterm	Local effects	inhalation	1 mg/m ³

Predicted No Effect Concentration (PNEC)

ethanolamine (141-43-5)

PNEC Fresh water	0,085 mg/l
PNEC Marine water	0,0085 mg/l
PNEC Aquatic intermittent release	0,025 mg/l
PNEC Sewage treatment plant	100 mg/l
PNEC Sediment	0,425 mg/kg
PNEC Marine sediment	0,0425 mg/kg
PNEC Soil	0,035 mg/kg

Ethylenedinitrilotetraacetic acid disodium salt (139-33-3)

PNEC Fresh water	2,2 mg/l
PNEC Marine water	0,22 mg/l
PNEC Aquatic intermittent release	1,2 mg/l
PNEC Sewage treatment plant	43 mg/l
PNEC Soil	0,72 mg/kg

sodium hydroxide (1310-73-2)

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PNEC no data available

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection

Tightly fitting safety goggles

Hand protection

full contact:

Glove material:	natural latex
Glove thickness:	0,6 mm
Break through time:	480 min

splash contact:

Glove material:	Nitrile rubber
Glove thickness:	0,11 mm
Break through time:	10 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 706 Lapren® (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Other protective equipment

Flame retardant antistatic protective clothing.

Respiratory protection

required when vapours/aerosols are generated.

Recommended Filter type: filter ABEK

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Environmental exposure controls

Do not let product enter drains.

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SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Colour	off-white
Odour	odourless
Odour Threshold	No information available.
pH	11,5 (undiluted)
Melting point	No information available.
Boiling point	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Vapour pressure	No information available.
Relative vapour density	No information available.
Density	1,06 g/cm ³ at 20 °C
Relative density	No information available.
Water solubility	No information available.
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.

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Oxidizing properties none

9.2 Other data

Corrosion May be corrosive to metals.

SECTION 10. Stability and reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Violent reactions possible with:

The generally known reaction partners of water.

Metals, Light metals, Ammonia

Exothermic reaction with:

Acids

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Metals

Light metals

Gives off hydrogen by reaction with metals.

10.6 Hazardous decomposition products

in the event of fire: See section 5.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Mixture

Acute oral toxicity

Acute toxicity estimate: > 2.000 mg/kg

Calculation method

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

Acute inhalation toxicity

Acute toxicity estimate: > 20 mg/l; 4 h ; vapour

Calculation method

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract

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Acute dermal toxicity

Acute toxicity estimate : > 2.000 mg/kg

Calculation method

Skin irritation

Mixture causes burns.

Eye irritation

Mixture causes serious eye damage. Risk of blindness!

Sensitisation

This information is not available.

Germ cell mutagenicity

This information is not available.

Carcinogenicity

This information is not available.

Reproductive toxicity

This information is not available.

Teratogenicity

This information is not available.

Specific target organ toxicity - single exposure

Mixture may cause respiratory irritation.

Target Organs: Respiratory system

Specific target organ toxicity - repeated exposure

This information is not available.

Aspiration hazard

This information is not available.

11.2 Further information

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Components

ethanolamine

Acute oral toxicity

LD50 Rat: ca. 1.515 mg/kg

OECD Test Guideline 401

Acute inhalation toxicity

Acute toxicity estimate: 11,1 mg/l; vapour

Expert judgement

Acute dermal toxicity

LD50 Rabbit: 2.692,5 mg/kg

OECD Test Guideline 402

Skin irritation

Rabbit

Result: Corrosive

OECD Test Guideline 404

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Product name Extran® 300 Detergent Phosphate-Free

Eye irritation

Rabbit
Result: Corrosive
OECD Test Guideline 405

Sensitisation

Maximisation Test Guinea pig
Result: negative

(ECHA)

Germ cell mutagenicity

Genotoxicity in vivo
In vivo micronucleus test
Mouse
male and female
Oral
Result: negative
Method: OECD Test Guideline 474

Genotoxicity in vitro

Ames test
Escherichia coli/Salmonella typhimurium
Result: negative
Method: OECD Test Guideline 471

Mutagenicity (mammal cell test): chromosome aberration.
rat hepatocytes
Result: negative
Method: OECD Test Guideline 473

In vitro mammalian cell gene mutation test
Mouse lymphoma test
Result: negative
Method: OECD Test Guideline 476

Ethylenedinitrilotetraacetic acid disodium salt

Acute oral toxicity

LD50 Rat: 2.800 mg/kg
OECD Test Guideline 401

Acute inhalation toxicity

Acute toxicity estimate: 1,6 mg/l; dust/mist
Expert judgement

Skin irritation

Rabbit
Result: No irritation
OECD Test Guideline 404

Eye irritation

Rabbit
Result: No eye irritation

(ECHA)

Repeated dose toxicity

Rat
male
Inhalation
aerosol
5 d

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daily
LOAEL: 0,03 mg/l
OECD Test Guideline 412
Lungs

Rat
male and female
Inhalation
dust/mist
90 d
daily
NOAEL: 0,003 mg/l
OECD Test Guideline 413
larynx

Rat
male
Oral
13 Weeks
daily
NOAEL: >= 500 mg/kg

(ECHA)

Germ cell mutagenicity
Genotoxicity in vitro
In vitro mammalian cell gene mutation test
Mouse lymphoma test
Result: negative
Method: OECD Test Guideline 476

sodium hydroxide

Skin irritation
Rabbit
Result: Causes burns.

(External MSDS)

Eye irritation
Rabbit
Result: Irreversible effects on the eye

(ECHA)

Sensitisation
Patch test: human
Result: negative

(ECHA)

Germ cell mutagenicity
Genotoxicity in vitro
Mutagenicity (mammal cell test): micronucleus.
Result: negative

(Lit.)

Ames test
Result: negative

(IUCLID)

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Product name Extran® 300 Detergent Phosphate-Free

polyethyleneglycoldodecyl ether with >5-20 mol ethylene oxide

Acute oral toxicity

LD50 Rat: 2.880 mg/kg
OECD Test Guideline 401

Acute dermal toxicity

LD50 Rat: > 2.000 mg/kg
(External MSDS)

Skin irritation

Rabbit
Result: slight irritation
OECD Test Guideline 404

Eye irritation

Rabbit
Result: Eye irritation
OECD Test Guideline 405

Germ cell mutagenicity

Genotoxicity in vivo
Mutagenicity (mammal cell test): chromosome aberration.
Result: negative

(National Toxicology Program)

Mutagenicity (mammal cell test): micronucleus.
Result: negative

(National Toxicology Program)

Genotoxicity in vitro

Ames test
Result: negative

(National Toxicology Program)

SECTION 12. Ecological information

Mixture

12.1 Toxicity

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not conducted.

12.6 Other adverse effects

Discharge into the environment must be avoided.

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Product name Extran® 300 Detergent Phosphate-Free

Components

ethanolamine

Toxicity to fish

semi-static test LC50 *Cyprinus carpio* (Carp): 349 mg/l; 96 h

Analytical monitoring: yes

Directive 67/548/EEC, Annex V, C.1.

Toxicity to daphnia and other aquatic invertebrates

static test EC50 *Daphnia magna* (Water flea): 65 mg/l; 48 h

Analytical monitoring: yes

Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae

static test ErC50 *Pseudokirchneriella subcapitata* (green algae): 2,8 mg/l; 72 h

Analytical monitoring: yes

OECD Test Guideline 201

static test NOEC *Pseudokirchneriella subcapitata* (green algae): 1 mg/l; 72 h

Analytical monitoring: yes

OECD Test Guideline 201

Toxicity to bacteria

EC50 activated sludge: > 1.000 mg/l; 3 h

OECD Test Guideline 209

Toxicity to fish (Chronic toxicity)

flow-through test NOEC *Oryzias latipes* (Orange-red killifish): 1,24 mg/l; 41 d

Analytical monitoring: yes

OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

semi-static test NOEC *Daphnia magna* (Water flea): 0,85 mg/l; 21 d

Analytical monitoring: yes

OECD Test Guideline 202

Biodegradability

> 90 %; 21 d; aerobic

OECD Test Guideline 301A

Readily biodegradable

Partition coefficient: n-octanol/water

log Pow: -2,3 (25 °C)

OECD Test Guideline 107

Bioaccumulation is not expected.

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

Ethylenedinitrilotetraacetic acid disodium salt

Toxicity to fish

static test LC100 *Oncorhynchus mykiss* (rainbow trout): 860 mg/l; 24 h

(ECHA)

Toxicity to daphnia and other aquatic invertebrates

static test EC50 *Daphnia magna* (Water flea): 140 mg/l; 48 h

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Product name Extran® 300 Detergent Phosphate-Free

Toxicity to bacteria

static test EC50 activated sludge: > 500 mg/l; 0,5 h
OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

semi-static test NOEC Daphnia magna (Water flea): 25 mg/l; 21 d

(ECHA)

Partition coefficient: n-octanol/water

log Pow: -4,3 (25 °C)
(experimental)

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

sodium hydroxide

Toxicity to fish

LC50 Gambusia affinis (Mosquito fish): 125 mg/l; 96 h
(External MSDS)

Toxicity to daphnia and other aquatic invertebrates

EC50 Ceriodaphnia (water flea): 40,4 mg/l; 48 h
(ECHA)

Toxicity to bacteria

EC50 Photobacterium phosphoreum: 22 mg/l; 15 min
(External MSDS)

Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances.

PBT/vPvB: Not applicable for inorganic substances

polyethyleneglycoldodecyl ether with >5-20 mol ethylene oxide

Toxicity to fish

LC50 Danio rerio (zebra fish): 0,1 - 1 mg/l; 96 h
(External MSDS)

Toxicity to daphnia and other aquatic invertebrates

EC50 Daphnia magna (Water flea): 0,1 - 1 mg/l; 48 h
(External MSDS)

Toxicity to algae

IC50 Desmodesmus subspicatus (green algae): < 1 mg/l; 72 h
(External MSDS)

Toxicity to bacteria

BRINGMANN-KÜHN-TEST EC10 Pseudomonas putida: 3,2 mg/l; 16 h

Biodegradability

> 70 %; 28 d
OECD Test Guideline 301A
Readily biodegradable

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SECTION 13. Disposal considerations

Waste treatment methods

Notice Directive on waste 2008/98/EC.

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14. Transport information

Land transport (ADR/RID)

14.1 UN number	UN 1719
14.2 Proper shipping name	CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE, ETHANOLAMINE)
14.3 Class	8
14.4 Packing group	III
14.5 Environmentally hazardous	--
14.6 Special precautions for user	yes
Tunnel restriction code	E

Inland waterway transport (ADN)

Not relevant

Air transport (IATA)

14.1 UN number	UN 1719
14.2 Proper shipping name	CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE, ETHANOLAMINE)
14.3 Class	8
14.4 Packing group	III
14.5 Environmentally hazardous	--
14.6 Special precautions for user	no

Sea transport (IMDG)

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14.1 UN number UN 1719
14.2 Proper shipping name CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE, ETHANOLAMINE)
14.3 Class 8
14.4 Packing group III
14.5 Environmentally hazardous --
14.6 Special precautions for user yes
EmS F-A S-B
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not relevant

SECTION 15. Regulatory information

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

EU regulations

Major Accident Hazard Legislation SEVESO III
Not applicable

Occupational restrictions Take note of Dir 94/33/EC on the protection of young people at work.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer not regulated

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC not regulated

Substances of very high concern (SVHC) This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of $\geq 0.1\%$ (w/w).

National legislation

Storage class 8A

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

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Product name Extran® 300 Detergent Phosphate-Free

SECTION 16. Other information

Full text of H-Statements referred to under sections 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.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Training advice

Provide adequate information, instruction and training for operators.

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

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