

## SAFETY DATA SHEET

according to the Global Harmonized System (and with all of the information required by the HPR)

Revision Date 11/12/2019

Version 1.6

### SECTION 1. Identification

#### Product identifier

Product number EX0996  
Product name Extran® 300 Detergent Phosphate-Free

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

Identified uses Reagent for analysis

#### Details of the supplier of the safety data sheet

Company Millipore (Canada) Ltd. | 2149 Winston Park Dr. | Oakville | Ontario L6H 6J8 | Canada | General Inquiries: +1 905 829 9500 | Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)  
MilliporeSigma is a business of Merck KGaA, Darmstadt, Germany.

**Emergency telephone** 800-424-9300 CHEMTREC (USA)  
+1-703-527-3887 CHEMTREC (International)  
24 Hours/day; 7 Days/week

### SECTION 2. Hazards identification

#### GHS Classification

Flammable liquid, Category 4, H227  
Corrosive to Metals, Category 1, H290  
Skin corrosion, Category 1B, H314  
Serious eye damage, Category 1, H318  
Specific target organ systemic toxicity - single exposure, Category 3, Respiratory system, H335  
Specific target organ systemic toxicity - repeated exposure, Category 2, Inhalation, Respiratory Tract, H373

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

#### GHS-Labeling

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Extran® 300 Detergent Phosphate-Free

## Hazard pictograms



## Signal Word

Danger

## Hazard Statements

H227 Combustible liquid.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H373 May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.

## Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P234 Keep only in original container.

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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/doctor.

P321 Specific treatment (see supplemental first aid instructions on this label).

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P390 Absorb spillage to prevent material damage.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P406 Store in corrosive resistant stainless steel container with a resistant inner liner.

P501 Dispose of contents/ container to an approved waste disposal plant.

## Other hazards

None known.

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## SECTION 3. Composition/information on ingredients

Chemical nature                      Aqueous solution of inorganic and organic compounds.

### Hazardous ingredients

*Chemical name (Concentration)*

CAS-No.

*ethanolamine (>= 10 % - < 20 % )*

141-43-5

*Ethylenedinitrilotetraacetic acid disodium salt (>= 5 % - < 10 % )*

139-33-3

*sodium hydroxide (>= 1 % - < 5 % )*

1310-73-2

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## SECTION 4. First aid measures

### Description of first-aid measures

*General advice*

First aider needs to protect himself.

*Inhalation*

After inhalation: fresh air. Call in physician.

*Skin contact*

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

*Eye contact*

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

*Ingestion*

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

Never give anything by mouth to an unconscious person.

### Most important symptoms and effects, both acute and delayed

Risk of blindness!

Irritation and corrosion, Cough, Shortness of breath

### Indication of any immediate medical attention and special treatment needed

No information available.

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### SECTION 5. Fire-fighting measures

#### Extinguishing media

*Suitable extinguishing media*

Water, Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder

*Unsuitable extinguishing media*

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

#### 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 vapors possible in the event of fire.

Fire may cause evolution of:

nitrogen oxides

#### Advice for firefighters

*Special protective equipment for fire-fighters*

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

*Further information*

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

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### SECTION 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, 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.

#### Environmental precautions

Do not let product enter drains.

#### 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 neutralizing material (e.g. Chemizorb® OH<sup>-</sup>, Art. No. 101596). Dispose of properly. Clean up affected area.

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## SECTION 7. Handling and storage

### Precautions for 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.

### Conditions for safe storage, including any incompatibilities

#### *Requirements for storage areas and containers*

No metal containers.

Tightly closed.

Store at room temperature.

## SECTION 8. Exposure controls/personal protection

### Exposure limit(s)

#### *Components*

Basis	Value	Threshold limits	Remarks
<i>ethanolamine 141-43-5</i>			
CAD AB OEL	Time Weighted Average (TWA):	3 ppm 7.5 mg/m <sup>3</sup>	
	Short Term Exposure Limit (STEL):	6 ppm 15 mg/m <sup>3</sup>	
CAD BC OEL	Short Term Exposure Limit (STEL):	6 ppm	
	Time Weighted Average (TWA):	3 ppm	
CAD MB OEL	Time Weighted Average (TWA):	3 ppm	
	Short Term Exposure Limit (STEL):	6 ppm	
CAD ON OEL	Short Term Exposure Limit (STEV):	6 ppm	
	Time Weighted Average (TWA):	3 ppm	
OEL (QUE)	Time Weighted Average (TWA):	3 ppm 7.5 mg/m <sup>3</sup>	
	Short Term Exposure Limit (STEL):	6 ppm 15 mg/m <sup>3</sup>	

*sodium hydroxide 1310-73-2*

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CAD AB OEL	Ceiling Limit Value:	2 mg/m <sup>3</sup>
CAD BC OEL	Ceiling Limit Value:	2 mg/m <sup>3</sup>
CAD MB OEL	Ceiling Limit Value:	2 mg/m <sup>3</sup>
CAD ON OEL	Ceiling Limit Value (CEV):	2 mg/m <sup>3</sup>
OEL (QUE)	Ceiling Limit Value:	2 mg/m <sup>3</sup>

Recirculation prohibited

## Engineering measures

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

## Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

### Hygiene measures

Immediately change contaminated clothing. Apply skin- protective barrier cream.  
Wash hands and face after working with substance.

### 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 Dermatrill® L (splash contact).

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

This recommendation applies only to the product stated in the safety data sheet and supplied by us as well as to the purpose specified by us. 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](http://www.kcl.de)).

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*Other protective equipment:*

Flame retardant antistatic protective clothing.

*Respiratory protection*

required when vapors/aerosols are generated.

Recommended Filter type: filter ABEK

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

These measures have to be properly documented.

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## SECTION 9. Physical and chemical properties

Physical state	liquid
Color	off-white
Odor	odorless
Odor 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.
Vapor pressure	No information available.
Relative vapor density	No information available.
Density	1.06 g/cm <sup>3</sup> at 68 °F (20 °C)
Relative density	No information available.

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Water solubility	No information available.
Partition coefficient: n-octanol/water	No information available.
Autoignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none
Corrosion	May be corrosive to metals.

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### SECTION 10. Stability and reactivity

#### Reactivity

Forms explosive mixtures with air on intense heating.

#### Chemical stability

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

#### Possibility of hazardous reactions

Violent reactions possible with:

The generally known reaction partners of water.

Metals, Light metals, Ammonia

Exothermic reaction with:

Acids

#### Conditions to avoid

Strong heating.

#### Incompatible materials

Metals

Light metals

Gives off hydrogen by reaction with metals.

#### Hazardous decomposition products

in the event of fire: See section 5.



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## SECTION 11. Toxicological information

### Information on toxicological effects

#### *Likely route of exposure*

Eye contact, Skin contact

#### *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 esophagus and the stomach.

#### *Acute inhalation toxicity*

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

Calculation method

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

#### *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!

#### *Specific target organ systemic toxicity - single exposure*

May cause respiratory irritation.

Target Organs: Respiratory system

#### *Specific target organ systemic toxicity - repeated exposure*

May cause damage to organs through prolonged or repeated exposure if inhaled.

Routes of exposure: Inhalation

Target Organs: Respiratory Tract

#### *Aspiration hazard*

Regarding the available data the classification criteria are not fulfilled.

### **Carcinogenicity**

IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater

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NTP  
ACGIH

than or equal to 0.1% is on OSHA's list of regulated carcinogens.  
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

## 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; vapor  
Expert judgment

#### *Acute dermal toxicity*

LD50 Rabbit: 2,692.5 mg/kg  
OECD Test Guideline 402

#### *Skin irritation*

Rabbit  
Result: Corrosive  
OECD Test Guideline 404

#### *Eye irritation*

Rabbit  
Result: Corrosive  
OECD Test Guideline 405

#### *Sensitization*

Maximization Test Guinea pig  
Result: negative  
(ECHA)

#### *Germ cell mutagenicity*

*Genotoxicity in vivo*  
In vivo micronucleus test  
Mouse  
Result: negative  
Method: OECD Test Guideline 474

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## *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 judgment

*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

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

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OECD Test Guideline 413  
larynx

Rat  
male  
Oral  
13 Weeks  
daily  
NOAEL:  $\geq$  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)

*Sensitization*  
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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## **SECTION 12. Ecological information**

### **Ecotoxicity**

No information available.

### **Persistence and degradability**

No information available.

### **Bioaccumulative potential**

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No information available.

## **Mobility in soil**

No information available.

## **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.

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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  
DIN 38412

### *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

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## SECTION 13. Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

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## SECTION 14. Transport information

### Land transport (DOT)

<b>UN number</b>	UN 1719
<b>Proper shipping name</b>	CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE, ETHANOLAMINE)
<b>Class</b>	8
<b>Packing group</b>	III
<b>Environmentally hazardous</b>	--

### Air transport (IATA)

<b>UN number</b>	UN 1719
<b>Proper shipping name</b>	CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE, ETHANOLAMINE)
<b>Class</b>	8
<b>Packing group</b>	III
<b>Environmentally hazardous</b>	--
<b>Special precautions for user</b>	no

### Sea transport (IMDG)

<b>UN number</b>	UN 1719
<b>Proper shipping name</b>	CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIDE, ETHANOLAMINE)
<b>Class</b>	8
<b>Packing group</b>	III
<b>Environmentally hazardous</b>	--
<b>Special precautions for user</b>	yes

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EmS F-A S-B

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## SECTION 15. Regulatory information

### United States of America

### Canada

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

### Notification status

TSCA: All components of the product are listed in the TSCA-inventory.

DSL: All components of this product are on the Canadian DSL

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## SECTION 16. Other information

### 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](http://www.wikipedia.org).

Revision Date 11/12/2019

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact [mlsbranding@sial.com](mailto:mlsbranding@sial.com).

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