

# Safety Data Sheet

## UNBLOCKER GEL

Conforms to Regulations (EC) 1907/2006, (EC) 1272/2008 and subsequent amendments.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Mixture identification:

Trade name: UNBLOCKER GEL

Trade code: 1979-S

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

Recommended use:

Alkaline Drain Unblocking Gel

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

Supplier:

ITALCHIMICA s.r.l.

Riviera Maestri del lavoro 10 35127 Padova Italy

Phone +39 049 8792456

Marketing authorization holder

ITALCHIMICA s.r.l. ||Riviera Maestri del lavoro 10 35127 Padova Italy ||Phone +39 049 8792456

- [www.sanitecitalia.com](http://www.sanitecitalia.com)

Competent person responsible for the safety data sheet:

[regulatory@italchimica.it](mailto:regulatory@italchimica.it)

#### 1.4. Emergency telephone number

Centro antiveneni, "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA, Piazza Sant'Onofrio, 4 Roma Tel. 06 68593726

Centro antiveneni, Az. Osp. Univ. Foggia, V.le Luigi Pinto 1, Foggia Tel. 800183459

Centro antiveneni, Azienda Ospedaliera "Antonio Cardarelli", III Servizio di anestesia e rianimazione, Via A. Cardarelli 9, Napoli Tel. 081-5453333

Centro antiveneni, Policlinico "Umberto I", V.le del Policlinico 155, Roma Tel. 06-49978000

Centro antiveneni, Policlinico "A. Gemelli", Largo Agostino Gemelli 8, Roma Tel. 06-3054343

Centro antiveneni, Az. Osp. "Careggi" U.O. Tossicologia Medica, Via Largo Brambilla 3, Firenze Tel. 055-7947819

Centro antiveneni, Centro Nazionale di Informazione Tossicologica, IRCCS Fondazione Salvatore Maugeri Clinica di Lavoro e della riabilitazione, Via Salvatore Maugeri 10, Pavia Tel. 0382-24444

Centro antiveneni Osp. Niguarda Ca' Grande, Piazza Ospedale Maggiore 3, Milano Tel. 02-66101029

Centro antiveneni, Azienda Ospedaliera Papa Giovanni XXII, Piazza OMS 1, Bergamo Tel. 800883300

Centro antiveneni, Azienda Ospedaliera Integrata Verona, Piazzale Aristide Stefani 1, Verona Tel. 800011858

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

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⚠ Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.  
Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P280 Wear protective gloves and eye/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.

Special Provisions:

PACK1 The packing must be featured by a safety lock for children.

PACK2 The packing must have tactile indications of danger for blind people.

Contains

sodium hydroxide

disodium metasilicate

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$

Other Hazards:

No other hazards

Product contents:

Anionic surfactants

5 - 15 %

Chlorine-based bleaching agents

< 5 %

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

N.A.

#### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
$\geq 5\%$ - < 7.5%	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	CAS: 68891-38-3 REACH No.: 01- 2119488639 -16-0009	⚠ 3.2/2 Skin Irrit. 2 H315 4.1/C3 Aquatic Chronic 3 H412 ⚠ 3.3/1 Eye Dam. 1 H318 Specific Concentration Limits: 5% $\leq$ C < 10%: Eye Irrit. 2 H319 C $\geq$ 10%: Eye Dam. 1 H318

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>= 5% - < 7.5%	sodium hydroxide	Index number: CAS: EC: REACH No.:	011-002-00-6 1310-73-2 215-185-5 01-2119457892-27-xxxx	<div> <div></div> <div>2.16/1 Met. Corr. 1 H290</div> </div> <div> <div></div> <div>3.2/1A Skin Corr. 1A H314</div> </div> <div> <div></div> <div>3.3/1 Eye Dam. 1 H318</div> </div> <div> <div></div> <div>Specific Concentration Limits: C &gt;= 5%: Skin Corr. 1A H314 2% &lt;= C &lt; 5%: Skin Corr. 1B H314</div> </div>
>= 2.5% - < 5%	disodium metasilicate	Index number: CAS: EC: REACH No.:	014-010-00-8 6834-92-0 229-912-9 01-2119449811-37-0004	<div> <div></div> <div>2.16/1 Met. Corr. 1 H290</div> </div> <div> <div></div> <div>3.2/1B Skin Corr. 1B H314</div> </div> <div> <div></div> <div>3.8/3 STOT SE 3 H335</div> </div>
< 2.5%	sodium hypochlorite, solution 15% Cl active	Index number: CAS: EC: REACH No.:	017-011-00-1 7681-52-9 231-668-3 01-2119488157-34-0033	<div> <div></div> <div>2.16/1 Met. Corr. 1 H290</div> </div> <div> <div></div> <div>3.2/1B Skin Corr. 1B H314</div> </div> <div> <div></div> <div>4.1/C1 Aquatic Chronic 1 H410</div> </div> <div> <div></div> <div>4.1/A1 Aquatic Acute 1 H400</div> </div> <div> <div></div> <div>EUH031</div> </div> <div> <div></div> <div>Specific Concentration Limits: C &gt;= 5%: EUH031</div> </div>

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media:

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Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

### 5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

### 5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6: Accidental release measures

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

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

### 6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

### 6.4. Reference to other sections

See also section 8 and 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

### 7.3. Specific end use(s)

None in particular

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

sodium hydroxide - CAS: 1310-73-2

ACGIH - STEL: Ceiling 2 mg/m<sup>3</sup> - Notes: URT, eye, and skin irr

DNEL Exposure Limit Values

Alcohols, C12-14, ethoxylated,sulfates, sodium salts - CAS: 68891-38-3

Worker Professional: 2750 mg/kg - Exposure: Human Dermal - Frequency: Long Term,

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systemic effects

Worker Professional: 175 ppm - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 1650 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 15 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 52 ppm - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

disodium metasilicate - CAS: 6834-92-0

Worker Industry: 1.49 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 6.22 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 0.74 mg/kg - Exposure: Human Dermal - Frequency: Long Term, local effects

Consumer: 1.55 mg/kg - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 0.74 mg/kg - Exposure: Human Oral - Frequency: Long Term, local effects

PNEC Exposure Limit Values

Alcohols, C12-14, ethoxylated, sulfates, sodium salts - CAS: 68891-38-3

Target: Fresh Water - Value: 0.24 mg/l

Target: Soil (agricultural) - Value: 0.946 mg/kg

Target: Microorganisms in sewage treatments - Value: 10000 mg/l

Target: Marine water - Value: 0.024 mg/l

Target: Marine water sediments - Value: 0.545 mg/kg

disodium metasilicate - CAS: 6834-92-0

Target: 08 - Value: 1000 mg/l

Target: Fresh Water - Value: 7.5 mg/l

Target: Marine water - Value: 1 mg/l

Target: Air - Value: 7.5 mg/l

### 8.2. Exposure controls

Eye protection:

Use closed safety visors complying with EN 166, do not use eye lenses.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves in compliance with the UNI EN 374-3 standard of class 3 or higher (eg PVC, neoprene or rubber). The suitability and stability of a glove depend on use; for example, the duration, the contact frequency and the chemical resistance of the materials, so the final choice must consider the specific conditions of use.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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Properties	Value	Method:	Notes:
Physical state:	Liquid	--	--
Colour:	Transparent	--	--
Odour:	Characteristic, Lightweight	Olfactory	--
Melting point/freezing point:	Not Relevant	--	--
Boiling point or initial boiling point and boiling range:	Not Relevant	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	Not Relevant	--	--
Flash point:	N.A.		--
Auto-ignition temperature:	Not Relevant	--	Parameter Not Relevant For The Product Type.
Decomposition temperature:	Not Relevant	--	Parameter Not Relevant For The Product Type.
pH:	13.5 +/- 0.5	Instrumental Control	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	Excellent	Internal Tests	--
Solubility in oil:	Not Relevant	--	--
Partition coefficient n-octanol/water (log value):	Not Relevant	--	--
Vapour pressure:	Not Relevant	--	Parameter Not Relevant For The Product Type.
Density and/or relative density:	1.0800 +/-0,01 gr/ml	--	--
Relative vapour density:	Not Relevant	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

#### 9.2. Other information

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Properties	Value	Method:	Notes:
Viscosity:	5500+/-500	Instrumental Control	--

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions

#### 10.2. Chemical stability

Stable under normal conditions

#### 10.3. Possibility of hazardous reactions

None

#### 10.4. Conditions to avoid

Stable under normal conditions.

#### 10.5. Incompatible materials

None in particular.

#### 10.6. Hazardous decomposition products

None.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

Alcohols, C12-14, ethoxylated, sulfates, sodium salts - CAS: 68891-38-3

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

Test: LD50 - Route: Oral - Species: Rat 4100 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit Positive - Notes: PROVA OECD 404

Test: Eye Irritant - Route: Skin - Species: Rabbit Positive - Notes: PROVE OECD 405

Test: Respiratory Tract Irritant - Route: Inhalation Negative

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin Negative - Notes: Organismo - Porcellino d'India

e) germ cell mutagenicity:

Test: Mutagenesis - Species: Generic Bacteria Negative - Notes: OECD 471

Test: Mutagenesis - Species: Generic Bacteria Negative - Notes: OECD 476

Test: Mutagenesis - Species: Generic Bacteria Negative - Notes: OECD 475

g) reproductive toxicity:

Test: Reproductive Toxicity - Species: Rat > 300 mg/kg

disodium metasilicate - CAS: 6834-92-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Mouse = 1152-1349 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 2.06 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rat > 5000 mg/kg

sodium hypochlorite, solution 15% Cl active - CAS: 7681-52-9

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 10000 mg/kg

If not differently specified, the information required in Regulation (EU)2020/878 listed below must be considered as N.A.:

a) acute toxicity;

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- b) skin corrosion/irritation;
  - c) serious eye damage/irritation;
  - d) respiratory or skin sensitisation;
  - e) germ cell mutagenicity;
  - f) carcinogenicity;
  - g) reproductive toxicity;
  - h) STOT-single exposure;
  - i) STOT-repeated exposure;
  - j) aspiration hazard.
- 11.2. Information on other hazards
- Endocrine disrupting properties:
- No endocrine disruptor substances present in concentration  $\geq 0.1\%$

### SECTION 12: Ecological information

#### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Alcohols, C12-14, ethoxylated, sulfates, sodium salts - CAS: 68891-38-3

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia 7.4 mg/l - Duration h: 48

Species: Algae 27.7 mg/l - Duration h: 72 - Notes: ErC50 Tasso di crescita

Endpoint: LC50 - Species: Fish 7.1 mg/l - Duration h: 96

Endpoint: NOEC - Species: Daphnia 1.2 mg/l - Duration h: 504

Endpoint: NOEC - Species: Fish 1 mg/l - Duration h: 1080

c) Bacteria toxicity:

> 10 g/kg - Duration h: 16 - Notes: EC10

disodium metasilicate - CAS: 6834-92-0

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1700 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 207 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish = 2320 mg/l - Duration h: 96

sodium hypochlorite, solution 15% Cl active - CAS: 7681-52-9

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.059 mg/l - Duration h: 96

Endpoint: LC50 - Species: Algae = 46 mg/l - Duration h: 72

Endpoint: EC50 - Species: Daphnia = 0.04 mg/l - Duration h: 48

#### 12.2. Persistence and degradability

N.A.

#### 12.3. Bioaccumulative potential

N.A.

#### 12.4. Mobility in soil

N.A.

#### 12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

#### 12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

#### 12.7. Other adverse effects

None

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

### SECTION 14: Transport information



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- 14.1. UN number or ID number  
 ADR-UN Number: 1760  
 IATA-UN Number: 1760  
 IMDG-UN Number: 1760
- 14.2. UN proper shipping name  
 ADR-Shipping Name: CORROSIVE LIQUID, N.O.S. (sodium hydroxide; sodium hypochlorite)  
 IATA-Shipping Name: CORROSIVE LIQUID, N.O.S. (sodium hydroxide; sodium hypochlorite)  
 IMDG-Shipping Name: CORROSIVE LIQUID, N.O.S. (sodium hydroxide; sodium hypochlorite)
- 14.3. Transport hazard class(es)  
 ADR-Class: 8  
 ADR - Hazard identification number: 80  
 IATA-Class: 8  
 IATA-Label: 8  
 IMDG-Class: 8
- 14.4. Packing group  
 ADR-Packing Group: III  
 IATA-Packing group: III  
 IMDG-Packing group: III
- 14.5. Environmental hazards  
 ADR-Environmental Pollutant: No  
 IMDG-Marine pollutant: No  
 IMDG-EmS: F-A, S-B
- 14.6. Special precautions for user  
 ADR-Subsidiary hazards: -  
 ADR-S.P.: 274  
 ADR-Transport category (Tunnel restriction code): (E)  
 IATA-Passenger Aircraft: 852  
 IATA-Subsidiary hazards: -  
 IATA-Cargo Aircraft: 615  
 IATA-S.P.: -  
 IATA-ERG: 8L  
 IMDG-Subsidiary hazards: -  
 IMDG-Stowage and handling: Category A  
 IMDG-Segregation: Clear of living quarters.
- 14.7. Maritime transport in bulk according to IMO instruments  
 N.A.

The product is transported in conditions that comply with exemption criteria for ADR transport.

### SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
 Dir. 98/24/EC (Risks related to chemical agents at work)  
 Dir. 2000/39/EC (Occupational exposure limit values)  
 Regulation (EC) n. 1907/2006 (REACH)  
 Regulation (EC) n. 1272/2008 (CLP)  
 Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

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Regulation (EU) n. 2020/878  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
Regulation (EU) n. 2017/776 (ATP 10 CLP)  
Regulation (EU) n. 2018/669 (ATP 11 CLP)  
Regulation (EU) n. 2018/1480 (ATP 13 CLP)  
Regulation (EU) n. 2019/521 (ATP 12 CLP)  
Regulation (EU) n. 2020/217 (ATP 14 CLP)  
Regulation (EU) n. 2020/1182 (ATP 15 CLP)  
Regulation (EU) n. 2021/643 (ATP 16 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restrictions related to the substances contained:

Restriction 75

Volatile Organic compounds - VOCs = 0.00 %

Volatile Organic compounds - VOCs = 0.00 g/Kg

Volatile Organic compounds - VOCs = 0.00 g/l

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

## SECTION 16: Other information

Full text of phrases referred to in Section 3:

H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting effects.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

EUH031 Contact with acids liberates toxic gas.

Hazard class and hazard category	Code	Description
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1

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Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Paragraphs modified from the previous revision:

### SECTION 3: Composition/information on ingredients

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

<b>Classification according to Regulation (EC) Nr. 1272/2008</b>	<b>Classification procedure</b>
Skin Corr. 1A, H314	Calculation method
Aquatic Chronic 3, H412	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van  
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.

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GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.