

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Alkaline Cleaner Conc.

Version	Revision Date:	SDS Number:	Date of last issue: 17.05.2019
1.3	31.07.2020	103000012	Country / Language: GB / EN(GB)

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

#### 1.1 Product identifier

Trade name : Alkaline Cleaner Conc.  
Product code : 0556

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

Use of the Sub-  
stance/Mixture : complexing agent, Bleach stabilizer, Water softeners

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

Supplier : North Dynamic AB  
Tillverkarvägen 9  
187 66 Täby, Sweden  
Telephone : +46841039100  
E-mail address of person  
responsible for the SDS : info@surfaceproducts.se

#### 1.4 Emergency telephone number

0870 190 6777. National Chemical Emergency Centre

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**  
Not a hazardous substance or mixture.

#### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**  
Not a hazardous substance or mixture.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Aqueous solution  
contains

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Alkaline Cleaner Conc.

Version	Revision Date:	SDS Number:	Date of last issue: 17.05.2019
1.3	31.07.2020	103000010398	Country / Language: GB / EN(GB)

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sodium iminodisuccinate

## Components

Remarks : No hazardous ingredients

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Do not leave the victim unattended.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
If unconscious, place in recovery position and get medical attention immediately.  
If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.  
Maintain open airway.  
Loosen tight clothing such as a collar, tie, belt or waistband.  
If symptoms persist, call a physician.
- In case of skin contact : If on skin, rinse well with water.  
Remove contaminated clothing and shoes.  
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.  
Keep eye wide open while rinsing.  
Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth with water.  
Give small amounts of water to drink.  
Stop if the exposed person feels sick as vomiting may be dangerous.  
DO NOT induce vomiting unless directed to do so by a physician or poison control center.  
If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.  
Never give anything by mouth to an unconscious person.  
If unconscious, place in recovery position and get medical attention immediately.  
Maintain open airway.  
Loosen tight clothing such as a collar, tie, belt or waistband.  
If symptoms persist, call a physician.
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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Alkaline Cleaner Conc.

Version	Revision Date:	SDS Number:	Date of last issue: 17.05.2019
1.3	31.07.2020	103000010398	Country / Language: GB / EN(GB)

---

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

None known.

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

Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : Do NOT use water jet.

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

Specific hazards during fire-fighting : In a fire or if heated, a pressure increase will occur and the container may burst.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)  
Metal oxides

No hazardous combustion products are known

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Further information : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.  
No action shall be taken involving any personal risk or without suitable training.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

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

Personal precautions : No action shall be taken involving any personal risk or without suitable training.  
Keep unnecessary and unprotected personnel from entering.

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Alkaline Cleaner Conc.

Version	Revision Date:	SDS Number:	Date of last issue: 17.05.2019
1.3	31.07.2020	103000010398	Country / Language: GB / EN(GB)

---

Do not touch or walk through spilt material.  
Use personal protective equipment.

## 6.2 Environmental precautions

Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.  
If the product contaminates rivers and lakes or drains inform respective authorities.

## 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.  
Dispose of wastes in an approved waste disposal facility.

## 6.4 Reference to other sections

For personal protection see section 8.  
For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.  
Do not get in eyes or mouth or on skin.  
Do not breathe vapours or spray mist.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat, drink or smoke. Wash hands and face before breaks and immediately after handling the product.  
Remove contaminated clothing and protective equipment before entering eating areas.

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

Requirements for storage areas and containers : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep containers sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Alkaline Cleaner Conc.

Version 1.3      Revision Date: 31.07.2020      SDS Number: 103000010398      Date of last issue: 17.05.2019  
Country / Language: GB / EN(GB)

Advice on common storage : No materials to be especially mentioned.

Further information on storage stability : No decomposition if stored and applied as directed.

## 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Reaction mass of Tetrasodium 2-(1,2-dicarboxylatoethylimino)succinate and D,L-Aspartic acid, sodium salt	Workers	Inhalation	Long-term exposure, Systemic effects	7.05 mg/m <sup>3</sup>
	Workers	Inhalation	Short-term exposure, Systemic effects	14.1 mg/m <sup>3</sup>
	Workers	Dermal	Long-term exposure, Systemic effects	2 mg/kg bw/day
	Workers	Dermal	Short-term exposure, Systemic effects	4 mg/kg bw/day
	Consumers	Inhalation	Long-term exposure, Systemic effects	1.73 mg/m <sup>3</sup>
	Consumers	Inhalation	Short-term exposure, Systemic effects	3.46 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term exposure, Systemic effects	1 mg/kg bw/day
	Consumers	Dermal	Short-term exposure, Systemic effects	2 mg/kg bw/day
	Consumers	Oral	Long-term exposure, Systemic effects	1 mg/kg bw/day
	Consumers	Oral	Short-term exposure, Systemic effects	2 mg/kg bw/day

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Reaction mass of Tetrasodium 2-(1,2-dicarboxylatoethylimino)succinate and D,L-Aspartic acid, sodium salt	Fresh water	0.234 mg/l
	Marine water	0.0234 mg/l
	Fresh water sediment	0.842 mg/kg dry

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Alkaline Cleaner Conc.

Version 1.3      Revision Date: 31.07.2020      SDS Number: 103000010398      Date of last issue: 17.05.2019  
Country / Language: GB / EN(GB)

		weight (d.w.)
	Marine sediment	0.0842 mg/kg dry weight (d.w.)
	Soil	1 mg/kg dry weight (d.w.)

## 8.2 Exposure controls

### Engineering measures

If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

Wearing time : < 60 min

Material : Nitrile rubber - NBR

Material : Polyvinyl chloride - PVC

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations

Skin and body protection : Protective suit

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : Liquid

Colour : colourless to light-yellow

Odour : slight

Odour Threshold : No data available

pH : 10.3 - 11.4

Melting point/range : -20 °C

Boiling point/boiling range : 100 °C  
(1,013 hPa)

Flash point : Not applicable

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Alkaline Cleaner Conc.

Version	Revision Date:	SDS Number:	Date of last issue: 17.05.2019
1.3	31.07.2020	103000010398	Country / Language: GB / EN(GB)

---

Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	1.32 - 1.35 g/cm <sup>3</sup> (20 °C)
Solubility(ies)	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Ignition temperature	:	No data available
Decomposition temperature	:	> 350 °C
Viscosity	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

## 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur. No hazards to be specially mentioned.
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### 10.4 Conditions to avoid

Conditions to avoid	:	No specific data.
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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Alkaline Cleaner Conc.

Version	Revision Date:	SDS Number:	Date of last issue: 17.05.2019
1.3	31.07.2020	103000010398	Country / Language: GB / EN(GB)

---

## 10.5 Incompatible materials

Materials to avoid : No specific data.

## 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation  
Eye contact  
Skin contact  
Ingestion

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 423  
GLP: No information available.  
Remarks: The results refer to active ingredient.

#### Skin corrosion/irritation

Not classified based on available information.

#### Product:

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: No skin irritation  
GLP: No information available.  
Remarks: The results refer to active ingredient.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Product:

Species: Rabbit  
Method: OECD Test Guideline 405  
Result: No eye irritation  
GLP: No information available.  
Remarks: The results refer to active ingredient.

#### Respiratory or skin sensitisation

##### Skin sensitisation

Not classified based on available information.

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Alkaline Cleaner Conc.

Version  
1.3

Revision Date:  
31.07.2020

SDS Number:  
103000010398

Date of last issue: 17.05.2019  
Country / Language: GB / EN(GB)

---

### Respiratory sensitisation

Not classified based on available information.

#### Product:

Test Type: Maximisation Test

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

GLP: No information available.

Remarks: The results refer to active ingredient.

### Germ cell mutagenicity

Not classified based on available information.

#### Product:

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: No information available.

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Cell type: Bone marrow  
Application Route: Intraperitoneal  
Method: OECD Test Guideline 474  
Result: negative  
GLP: No information available.  
Remarks: The results refer to active ingredient.

Test Type: comet assay  
Species: Rat (male)  
Application Route: Oral  
Method: OECD 489  
Result: negative  
GLP: No information available.  
Remarks: The results refer to active ingredient.

### Carcinogenicity

Not classified based on available information.

#### Product:

Species: Rat, (male and female)

Application Route: Oral

NOAEL: >= 1,000 mg/kg bw/day

Method: OECD Test Guideline 453

Result: negative

GLP: No information available.

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Alkaline Cleaner Conc.

Version 1.3	Revision Date: 31.07.2020	SDS Number: 103000010398	Date of last issue: 17.05.2019 Country / Language: GB / EN(GB)
----------------	------------------------------	-----------------------------	---

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Remarks: The results refer to active ingredient.

### Reproductive toxicity

Not classified based on available information.

#### Product:

Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat, male and female  
Application Route: Oral  
Dose: 4000 - 16000 parts per million  
General Toxicity - Parent: NOAEL: 4,000 ppm  
General Toxicity F1: NOAEL: 16,000 ppm  
Method: OECD Test Guideline 415  
Result: Animal testing did not show any effects on fertility.  
GLP: No information available.  
Remarks: The results refer to active ingredient.

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat, female  
Application Route: Oral  
General Toxicity Maternal: NOAEL: > 1,000 mg/kg body weight  
Developmental Toxicity: NOAEL: > 1,000 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: negative  
GLP: No information available.  
Remarks: The results refer to active ingredient.

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Repeated dose toxicity

#### Product:

Species: Rat, male  
NOAEL: 100 mg/kg  
LOAEL: 300 mg/kg  
Application Route: Oral  
Exposure time: 90 d  
Method: OECD Test Guideline 408  
GLP: No information available.  
Remarks: Subchronic toxicity  
The results refer to active ingredient.

Species: Rat, female  
NOAEL: 300 mg/kg  
Application Route: Oral  
Exposure time: 90 d  
Method: OECD Test Guideline 408

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Alkaline Cleaner Conc.

Version	Revision Date:	SDS Number:	Date of last issue: 17.05.2019
1.3	31.07.2020	103000010398	Country / Language: GB / EN(GB)

---

GLP: No information available.  
Remarks: Subchronic toxicity  
The results refer to active ingredient.

## Aspiration toxicity

Not classified based on available information.

## Further information

### Product:

Remarks: No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 82.6 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: No information available.  
Method: Regulation (EC) No. 440/2008, Annex, C.1  
GLP: No information available.  
Remarks: Fresh water  
The results refer to active ingredient.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): > 84 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: No information available.  
Method: OECD Test Guideline 202  
GLP: No information available.  
Remarks: Fresh water  
The results refer to active ingredient.

Toxicity to algae : NOEC (Scenedesmus subspicatus): 22.8 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Analytical monitoring: No information available.  
Method: Regulation (EC) No. 440/2008, Annex, C.3  
GLP: No information available.  
Remarks: Fresh water  
The results refer to active ingredient.

ErC50 (Scenedesmus subspicatus): >= 94.5 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Analytical monitoring: No information available.  
Method: Regulation (EC) No. 440/2008, Annex, C.3

---

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Alkaline Cleaner Conc.

Version 1.3      Revision Date: 31.07.2020      SDS Number: 103000010398      Date of last issue: 17.05.2019  
Country / Language: GB / EN(GB)

---

GLP: No information available.  
Remarks: Fresh water  
The results refer to active ingredient.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC:  $\geq$  11.7 mg/l  
End point: Reproduction  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Analytical monitoring: No information available.  
Method: OECD Test Guideline 211  
GLP: No information available.  
Remarks: Fresh water  
The results refer to active ingredient.

Toxicity to microorganisms : NOEC (activated sludge):  $\geq$  1,000 mg/l  
End point: Respiration inhibition  
Exposure time: 30 min  
Analytical monitoring: No information available.  
Method: OECD Test Guideline 209  
GLP: No information available.  
Remarks: Fresh water  
The results refer to active ingredient.

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 79 %  
Exposure time: 28 d  
Method: Regulation (EC) No. 440/2008, Annex, C.4-B  
GLP: No information available.  
Remarks: The results refer to active ingredient.

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Other adverse effects

#### Product:

Adsorbed organic bound halogens (AOX) : Remarks: The product does not contain organically bounded halogens which could lead to an AOX value in waste water.

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Alkaline Cleaner Conc.

Version	Revision Date:	SDS Number:	Date of last issue: 17.05.2019
1.3	31.07.2020	103000010398	Country / Language: GB / EN(GB)

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Product : The generation of waste should be avoided or minimised wherever possible.  
Where possible recycling is preferred to disposal or incineration.  
Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls  
The product should not be allowed to enter drains, water courses or the soil.  
Dispose of wastes in an approved waste disposal facility.  
Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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### SECTION 14: Transport information

#### 14.1 UN number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

- Hazard statements : Not dangerous cargo.  
Has a slight odour.  
Keep separated from foodstuffs.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Alkaline Cleaner Conc.

Version 1.3	Revision Date: 31.07.2020	SDS Number: 103000010398	Date of last issue: 17.05.2019 Country / Language: GB / EN(GB)
----------------	------------------------------	-----------------------------	---

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### SECTION 15: Regulatory information

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

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors	: Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	: Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	: Not applicable
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	Not applicable

#### 15.2 Chemical safety assessment

not applicable

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### SECTION 16: Other information

#### Full text of other abbreviations

ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals

#### Further information

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet and its Annex [if required according to Regulation (EC) 1907/2006 (REACH)] is to describe the products in terms of their safety requirements. The given details do not imply any guarantee concerning the composition, properties or performance.

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