

## HOSTASTAT HS 1 PILLS ZN

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Substance key: SXR027092

Revision Date: 05/11/2022

Version : 5 - 4 / USA

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## SECTION 1. IDENTIFICATION

**Identification of the company:**

Clariant Plastics & Coatings  
(Deutschland) GmbH  
Frankfurt am Main, 65926  
Telephone No.: +49 69 305 18000

**Information of the substance/preparation:**

Product Stewardship, +1-704-331-7710  
e-mail: SDS.NORAM@clariant.com

**Emergency tel. number:** +1 800-424-9300 CHEMTREC

**Trade name:****HOSTASTAT HS 1 PILLS ZN****Material number:**

109444

**Synonyms:**

Hostastat HS 1 granules ZN

**Primary product use:**

Additive  
Industrial uses are not restricted by REACH legislation.

**Chemical family:**

sulfonic acids, petroleum, sodium salts

## SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Acute toxicity (Oral) : Category 4

Skin irritation : Category 2

Serious eye damage : Category 1

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.

Precautionary statements : **Prevention:**  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.

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P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

**Disposal:**

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

**Other hazards**

Avoid contact with skin and eyes.

Potential environmental effects

No additional hazards are known except those derived from the labelling.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Sulfonic acids, C14-17-sec-alkane, sodium salts	97489-15-1	>= 90 - <= 100

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

General advice : Remove/ Take off immediately all contaminated clothing.

If inhaled : Move the victim to fresh air.  
Give oxygen or artificial respiration if needed.  
Get immediate medical advice/ attention.  
Never give anything by mouth to an unconscious person.

In case of skin contact : Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.

Immediately flush skin with plenty of water while removing contaminated clothing. Wash contaminated clothing before

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- reuse. If redness or irritation occurs, seek medical attention.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Get medical attention immediately if irritation develops and persists.
- If swallowed : Get immediate medical advice/ attention.  
Do NOT induce vomiting.
- If conscious, give the victim plenty of water to drink.  
Consult a physician.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : The possible symptoms known are those derived from the labelling (see section 2).  
No additional symptoms are known.
- Notes to physician : None known.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Foam  
Water spray jet
- Unsuitable extinguishing media : Dry powder  
Carbon dioxide (CO<sub>2</sub>)  
High volume water jet
- Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:  
Carbon monoxide (CO)  
Sulphur dioxide
- Emits toxic and corrosive fumes under fire conditions.
- Keep away from sources of ignition. Take precautionary measures to prevent static discharges. Wear proper protective equipment to avoid inhalation of smoke, fumes, or hazardous decomposition of products.
- Further information : Wear positive pressure self-contained breathing apparatus (SCBA) and full protective equipment.
- Special protective equipment for firefighters : Self-contained breathing apparatus

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, : Wear suitable protective equipment.

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protective equipment and emergency procedures : Wearing appropriate personal protective equipment, contain spill and collect into a suitable container. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

Environmental precautions : Do not allow to enter drains or waterways

Methods and materials for containment and cleaning up : Pick up mechanically. Rinse away rest with water.

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**SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking. Vapours may spread long distances and ignite. Electrical equipment should be protected to the appropriate standard. Vapours may form explosive mixtures with air.

Advice on safe handling : Avoid dust formation. Keep away from sources of ignition. Lead off electrostatic charges. Avoid inhalation, ingestion and contact with skin and eyes. Wash thoroughly after handling.

Further information on storage conditions : Store in original container. Keep container tightly closed. Store in a cool, dry, well-ventilated area. Keep away sources of ignition.

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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Engineering measures** : Local ventilation recommended - mechanical ventilation may be used.

**Personal protective equipment**

Respiratory protection : Use NIOSH/MSHA approved respirators following manufacturer's recommendations where dust or fume may be generated.

If airborne concentrations pose a health hazard, become irritating, or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29CFR1910.134.

Hand protection

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Remarks	:	Butyl Rubber, PVC Or Neoprene.
Eye protection	:	Safety glasses or chemical splash goggles. Tightly fitting safety goggles
Skin and body protection	:	Wear suitable protective equipment.
Protective measures	:	Avoid contact with skin and eyes.
Hygiene measures	:	Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Take off immediately all contaminated clothing and wash it before reuse.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	granules
Colour	:	light yellow
Odour	:	not specified
pH	:	approximately 7 (68 °F / 20 °C) Concentration: 1 % Method: DIN EN 1262
Melting point	:	> 662 °F / > 350 °C Method: DSC
Softening point	:	> 392 °F / > 200 °C
Boiling point	:	> 680 °F / > 360 °C Method: DSC
Flash point	:	not tested.
Evaporation rate	:	Not applicable
Self-ignition	:	Method: Expert judgement The substance or mixture is not classified as pyrophoric.  Method: VDI 2263 (Grewer) The substance or mixture is not classified as self heating.
Upper explosion limit / upper flammability limit	:	Not applicable

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Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	< 0.000001 hPa Method: Calculated by Syracuse.
Relative vapour density	:	Not applicable
Density	:	approx. 1.05 g/cm <sup>3</sup> (73 °F / 23 °C) 30 % water-borne solution
Solubility(ies) Water solubility	:	approx. 320 g/l (77 °F / 25 °C)
Partition coefficient: n-octanol/water	:	log Pow: 0.2 Method: Calculated from the solubilities
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	> 680 °F / > 360 °C No decomposition if used as directed.
Viscosity Viscosity, kinematic	:	Not applicable
Explosive properties	:	There are no chemical groups associated with explosive properties present in the molecule. Not explosive Method: Expert judgement
Oxidizing properties	:	The substance or mixture is not classified as oxidizing. Method: Expert judgement GLP: no The product does not contain organic peroxide-groups which result from either the manufacturing process or from added ingredients.
Self-heating substances	:	Method: Expert judgement The substance or mixture is not classified as self heating.
Surface tension	:	0.03 N/m, 1 g/l, 68 °F / 20 °C
Metal corrosion rate	:	Not applicable
Particle size	:	not tested.

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	No dangerous reaction known under conditions of normal use.
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Chemical stability	:	Stable
Possibility of hazardous reactions	:	The substance or mixture does not emit flammable gases in contact with water. Not corrosive to metals Stable
Conditions to avoid	:	Keep away from open flames, hot surfaces and sources of ignition.
Incompatible materials	:	not known
Hazardous decomposition products	:	The product does not contain any chemical groups which suggest self-reactive properties, nor is the estimated SADT less than 75 °C, nor is the exothermic decomposition energy higher than 300 J/g. This product may release the following: Sulphur oxides Carbon dioxide (CO <sub>2</sub> )

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Eye contact  
Skin contact  
Ingestion  
Inhalation

**Acute toxicity****Product:**

Acute oral toxicity : LD50 (Rat): > 500 - 2,000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

**Components:****Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Acute oral toxicity : LD50 (Rat, male and female): 500 - 2,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : LD50 (Mouse, female): > 2,000 mg/kg  
Method: Other

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GLP: no

Assessment: The substance or mixture has no acute dermal toxicity

**Skin corrosion/irritation****Product:**

Result: Skin irritation

**Components:****Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Species: Rabbit

Exposure time: 4 h

Method: OECD Test Guideline 404

Result: Irritating to skin.

GLP: yes

**Serious eye damage/eye irritation****Product:**

Result: Risk of serious damage to eyes.

Method: OECD Test Guideline 405

Remarks: The toxicological data has been taken from products of similar composition.

**Components:****Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Species: Rabbit

Result: Risk of serious damage to eyes.

Exposure time: 24 h

Method: OECD Test Guideline 405

GLP: yes

**Respiratory or skin sensitisation****Product:**

Species: Guinea pig

Method: OECD Test Guideline 406

Result: non-sensitizing

**Components:****Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Test Type: Maximisation Test

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Not a skin sensitizer.

GLP: no



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Assessment: Harmful if swallowed., Causes skin irritation., Causes serious eye damage.

**Germ cell mutagenicity****Product:**

Genotoxicity in vitro : Remarks: no data available

Germ cell mutagenicity - Assessment : No information available.

**Components:****Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Genotoxicity in vitro : Test Type: In vitro gene mutation study in bacteria  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: no

Test Type: In vitro gene mutation study in mammalian cells  
Test system: Chinese hamster fibroblasts  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse (male and female)  
Strain: NMRI  
Application Route: oral (gavage)  
Method: OECD Test Guideline 474  
Result: negative  
GLP: no

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

In vivo tests did not show mutagenic effects

**Carcinogenicity****Product:**

Remarks: not available

Carcinogenicity - Assessment : No information available.

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**Components:****Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Species: Rat, (male and female)  
Application Route: oral (feed)  
Exposure time: 2 Years  
Dose: 0, 0,08, 0,4 ,2 % in diet  
Frequency of Treatment: 1 daily  
1,000 mg/kg body weight  
LOAEL: 1,000 mg/kg body weight  
Method: Other  
Result: negative  
GLP: no

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**IARC**

No component 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 than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity****Product:**

Reproductive toxicity - Assessment : No information available.  
No information available.

**Components:****Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Effects on foetal development : Test Type: Two-generation study  
Species: Rat, male and female  
Strain: CD1  
Application Route: oral (feed)  
Dose: 1000, 3000, 10000 in diet parts per million  
Duration of Single Treatment: > 60 d  
Frequency of Treatment: 1 daily  
Teratogenicity: NOEL: >= 10,000 ppm  
Embryo-foetal toxicity: NOEL: >= 10,000 ppm  
Method: Other  
GLP: no

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

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Did not show teratogenic effects in animal experiments.

**STOT - single exposure****Product:**

Remarks: not tested.

**Components:****Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT - repeated exposure****Product:**

Remarks: not tested.

**Components:****Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Repeated dose toxicity****Product:**

Species: Rat, male and female

NOAEL: 200 mg/kg

Application Route: oral (feed)

Method: Chronic oral toxicity

Species: Mouse

NOAEL: 500 mg/kg

Method: Subacute dermal toxicity

**Components:****Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Species: Rat, male and female

NOAEL: 200 mg/kg bw/day

Application Route: oral (feed)

Exposure time: 52 weeks

Number of exposures: daily

Dose: 0, 0,08, 0,4, 2% in diet

Group: yes

Method: Other

GLP: no

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Repeated dose toxicity - Assessment : Harmful if swallowed., Causes skin irritation., Causes serious eye damage.

**Aspiration toxicity****Product:**

no data available

**Components:****Sulfonic acids, C14-17-sec-alkane, sodium salts:**

no data available

**Experience with human exposure****Product:**

General Information : The possible symptoms known are those derived from the labelling (see section 2).

**Further information****Product:**

Remarks: Information refers to the main component.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1 - 10 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 9.81 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 61 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.85 mg/l  
Exposure time: 28 d  
Method: OECD Test Guideline 204
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.36 mg/l  
Exposure time: 22 d  
Method: OECD Test Guideline 202

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Toxicity to microorganisms : EC50 (*Pseudomonas putida*): > 1,000 mg/l  
Method: DIN 38412 T.8

: NOEC (*Pseudomonas putida*): 600 mg/l  
Method: DIN 38412 T.8

Toxicity to soil dwelling organisms : (*Eisenia fetida* (earthworms)): 470 mg/kg  
Exposure time: 56 d  
Method: OECD Test Guideline 222

**Ecotoxicology Assessment**

Acute aquatic toxicity : no data available

**Components:****Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Toxicity to fish : LC50 (*Leuciscus idus* (Golden orfe)): 8.4 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: flow-through test  
Method: Regulation (EC) No. 440/2008, Annex, C.1  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 9.8 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (*Desmodesmus subspicatus* (green algae)): > 100 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to fish (Chronic toxicity) : NOEC (*Oncorhynchus mykiss* (rainbow trout)): 0.85 mg/l  
End point: mortality  
Exposure time: 28 d  
Test Type: flow-through test  
Analytical monitoring: yes  
Method: OECD Test Guideline 204  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 1 mg/l  
End point: Reproduction rate  
Exposure time: 22 d

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Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to microorganisms : NOEC (*Pseudomonas putida*): 1,000 mg/l  
Exposure time: 16 h  
Test Type: static test  
Method: DIN 38 412 Part 8  
GLP: no

Toxicity to soil dwelling organisms : Test Type: artificial soil  
NOEC (*Eisenia fetida* (earthworms)): 470 mg/kg  
Exposure time: 56 d  
End point: Reproduction  
Method: OECD Test Guideline 222  
GLP: yes

Sediment toxicity : NOEC (*Nematode Caenorhabditis elegans*): 1000 mg/kg dry weight (d.w.)  
Analytical monitoring: no  
Solvent: yes  
Duration: 96 h  
Method: Draft ISO/DIS 10872 (2008)  
GLP: yes

**Ecotoxicology Assessment**

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

**Persistence and degradability****Product:**

Biodegradability : Remarks: This property is substance-specific and therefore cannot be given for the preparation.

Chemical Oxygen Demand (COD) : 2,065 mg/g

Dissolved organic carbon (DOC) : 400 mg/g

Physico-chemical removability : Remarks: no data available

**Components:****Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 103 mg/l

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Carbon dioxide (CO<sub>2</sub>)  
Result: Readily biodegradable.  
Biodegradation: 78 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: no

**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: not available

**Mobility in soil****Product:**

Stability in soil : Remarks: no data available

**Components:****Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Distribution among environmental compartments : adsorption  
Medium: Soil  
Kd: 20 - 75  
Method: OECD Test Guideline 106  
Remarks: immobile

**Other adverse effects****Product:**

Environmental fate and pathways : Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Results of PBT and vPvB assessment : Remarks: no data available

Additional ecological information : Information refers to the main component.

**Components:****Sulfonic acids, C14-17-sec-alkane, sodium salts:**

Results of PBT and vPvB assessment : The substance is not identified as a PBT or as a vPvB substance.

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

RCRA - Resource Conservation and Recovery : This product, if discarded as sold, is not a Federal RCRA hazardous waste.

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Authorization Act

Waste Code : NONE

Waste from residues : Dispose of spilled or waste product, contaminated soil and other contaminated materials in licensed landfill or treatment facility in accordance with all local, state, and federal regulations.

Contaminated packaging : Packaging that cannot be cleaned should be disposed of as product waste

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**SECTION 14. TRANSPORT INFORMATION**

DOT not restricted

IATA not restricted

IMDG not restricted

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**SECTION 15. REGULATORY INFORMATION****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Acute toxicity (any route of exposure)  
Skin corrosion or irritation  
Serious eye damage or eye irritation**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).



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**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

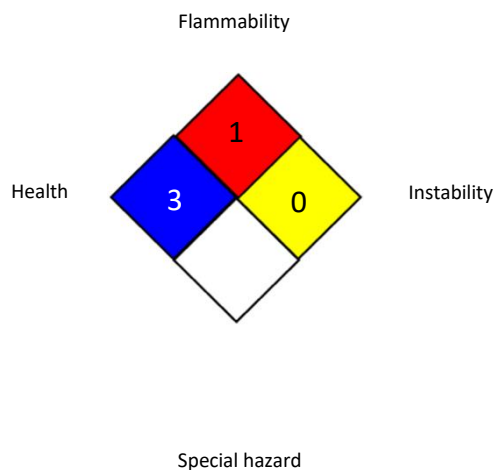
This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

Fatty acids, C16-18, zinc salts 91051-01-3  $\geq 0.1 - < 1\%$

This product contains the following priority pollutants related to the U.S. Clean Water Act:, Zinc

**The components of this product are reported in the following inventories:**

TSCA : On TSCA Inventory, All components are compliant with the TSCA Inventory Notification (Active) rule.

**SECTION 16. OTHER INFORMATION****Further information****NFPA 704:****Full text of other abbreviations**

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide;

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GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

On the basis of an extensive test program, which had to be submitted to the competent authority on the occasion of the Notification of the substance in the European Community, this product was found to be toxicologically not dangerous within the meaning of the EC Directives.  
None known.

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# SAFETY DATA SHEET



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