

SAFETY DATA SHEET

Hostastat HS 1 Pills ZN

Page 1

Substance key: SXR027092

Revision Date: 08/04/2025

Version : 6 - 0 / USA

Date of printing :08/27/2025

SECTION 1. IDENTIFICATION

Identification of the company:	Clariant Corporation 500 East Morehead Street Charlotte, NC, 28202 Telephone No.: +1 704 331 7000
	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
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)

Hazards for the product as supplied

Acute toxicity (Oral) : Category 4

Skin irritation : Category 2

Serious eye damage : Category 1

Other hazards

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

Hazards associated with a change in physical form:

Conditions	Hazards
If small particles are generated during further processing, handling or by other means.	May form combustible dust concentrations in air.

GHS label elements

Hazard pictograms :



Signal word : Danger

SAFETY DATA SHEET



Hostastat HS 1 Pills ZN

Page 2

Substance key: SXR027092

Revision Date: 08/04/2025

Version : 6 - 0 / USA

Date of printing :08/27/2025

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

Supplemental Hazard Statements : Corrosive to the respiratory tract.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ eye protection/ face protection.
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 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 + P364 Take off contaminated clothing and wash it before reuse.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)	Trade secret
Petroleumsulfonate, sodium salt	68608-26-4*	>= 80 - <= 100	TSC

* Indicates that the identifier is a CAS No.

TSC- the actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

SAFETY DATA SHEET



Hostastat HS 1 Pills ZN

Page 3

Substance key: SXR027092

Revision Date: 08/04/2025

Version : 6 - 0 / USA

Date of printing :08/27/2025

- If inhaled : Move to fresh air.
If unconscious, place in recovery position and seek medical advice.
Never give anything by mouth to an unconscious person.
Get immediate medical advice/ attention.

Give oxygen or artificial respiration if needed.
- In case of skin contact : If on skin, rinse well with water.
Take off all contaminated clothing immediately.
Take victim immediately to hospital.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get immediate medical advice/ attention.
If easy to do, remove contact lens, if worn.
Protect unharmed eye.
Keep eye wide open while rinsing.
- If swallowed : Rinse mouth with water.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : The possible health hazards known are those derived from the labelling (see corresponding section) and/or provided in this section.
The possible symptoms known are those derived from the labelling (see section 2).
Harmful if swallowed.
Causes skin irritation.
Causes serious eye damage.
Corrosive to the respiratory tract.
- Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray jet
Alcohol-resistant foam
Dry powder
Carbon dioxide (CO₂)
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet
- Hazardous combustion products : Carbon oxides
Hydrocarbons

Substance key: SXR027092

Revision Date: 08/04/2025

Version : 6 - 0 / USA

Date of printing :08/27/2025

Sodium oxides
Sulphur compounds

- Further information : In the event of fire and/or explosion do not breathe fumes.
Do not allow run-off from fire fighting to enter drains or water courses.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Avoid contact with skin, eyes and clothing.
Ensure adequate ventilation.
Evacuate personnel to safe areas.
Remove all sources of ignition.
Use personal protective equipment.
Refer to protective measures listed in sections 7 and 8.
Avoid breathing dust.
Avoid dust formation.
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 : The product should not be allowed to enter drains, water courses or the soil.
- Methods and materials for containment and cleaning up : Avoid dust formation.
Non-sparking tools should be used.
Take measures to prevent the build up of electrostatic charge.
Sweep up and shovel into suitable containers for disposal.
Clean contaminated surface thoroughly.
Treat recovered material as described in the section "Disposal considerations".

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Keep away from heat and sources of ignition.
Observe the general rules of industrial fire protection
Take precautionary measures against build-up of electrostatic charges, e.g earthing during loading and off-loading operations.
Dust can form an explosive mixture in air.
Electrical equipment should be protected to the appropriate standard.

Substance key: SXR027092

Revision Date: 08/04/2025

Version : 6 - 0 / USA

Date of printing :08/27/2025

Cool endangered containers with water spray jet.

- Advice on safe handling : Use only with adequate ventilation/personal protection.
For personal protection see section 8.
Avoid contact with skin, eyes and clothing.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Avoid dust formation.
Take measures to prevent the build up of electrostatic charge.
Ensure all equipment is electrically grounded before beginning transfer operations.
Use only non-sparking tools.
- Conditions for safe storage : Keep containers tightly closed in a dry, cool and well-ventilated place.
Handle and open container with care.
Keep away from sources of ignition - No smoking.
- Materials to avoid : When used and handled as intended, none.
- Further information on storage stability : Stable under recommended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

- Engineering measures** : Use adequate exhaust ventilation and/or dust collection to keep dust levels below exposure limits.

Personal protective equipment

- Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
- Hand protection
Remarks : Butyl Rubber, PVC Or Neoprene.
- Eye protection : Chemical splash goggles with face shield.
Do not wear contact lenses.

Substance key: SXR027092

Revision Date: 08/04/2025

Version : 6 - 0 / USA

Date of printing :08/27/2025

Skin and body protection	: Wear protective clothing, including long sleeves and gloves, to prevent skin contact.
Protective measures	: Observe the usual precautions for handling chemicals. Avoid breathing dust or vapour.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Use protective skin cream before handling the product. Wash hands before breaks and at the end of workday. 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
Flammability (solid, gas)	: May form combustible dust concentrations in air during processing, handling or other means.
Self-ignition	: no data available
Upper explosion limit / upper flammability limit	: Does not apply to solids.
Lower explosion limit / Lower flammability limit	: Does not apply to solids.

SAFETY DATA SHEET



Hostastat HS 1 Pills ZN

Page 7

Substance key: SXR027092

Revision Date: 08/04/2025

Version : 6 - 0 / USA

Date of printing :08/27/2025

Vapour pressure	: < 0.000001 hPa Method: Calculated by Syracuse.
Relative vapour density	: Does not apply to solids.
Density	: approx. 1.05 g/cm ³ (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	: Does not apply to solids.
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
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	: no data available
Particle size	: not tested.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
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.

Substance key: SXR027092

Revision Date: 08/04/2025

Version : 6 - 0 / USA

Date of printing :08/27/2025

Incompatible materials : not known

Hazardous decomposition products : When handled and stored appropriately, no dangerous decomposition products are known

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

Skin contact

Eye contact

Ingestion

Inhalation

Acute toxicity

Harmful if swallowed.

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

Causes skin irritation.

Product:

Result : Skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

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.

Respiratory or skin sensitisation**Skin sensitisation**

Not classified

Respiratory sensitisation

Not classified

Product:

Species : Guinea pig

Method : OECD Test Guideline 406

Result : non-sensitizing

Germ cell mutagenicity

Not classified

SAFETY DATA SHEET



Hostastat HS 1 Pills ZN

Page 9

Substance key: SXR027092

Revision Date: 08/04/2025

Version : 6 - 0 / USA

Date of printing :08/27/2025

Product:

Genotoxicity in vitro : Remarks: no data available

Germ cell mutagenicity - Assessment : No information available.

Carcinogenicity

Not classified

Product:

Remarks : not available

Carcinogenicity - Assessment : No information available.

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

Not classified

Product:

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

STOT - single exposure

Corrosive to the respiratory tract.

Product:

Remarks : not tested.

STOT - repeated exposure

Not classified

Product:

Remarks : not tested.

Repeated dose toxicity

Product:

Species : Rat, male and female
NOAEL : 200 mg/kg
Application Route : oral (feed)
Method : Chronic oral toxicity

Hostastat HS 1 Pills ZN

Page 10

Substance key: SXR027092

Revision Date: 08/04/2025

Version : 6 - 0 / USA

Date of printing :08/27/2025

Species : Mouse
NOAEL : 500 mg/kg
Method : Subacute dermal toxicity

Aspiration toxicity

Not classified

Product:

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.

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

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

SAFETY DATA SHEET



Hostastat HS 1 Pills ZN

Page 11

Substance key: SXR027092

Revision Date: 08/04/2025

Version : 6 - 0 / USA

Date of printing :08/27/2025

: 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

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

Bioaccumulative potential

no data available

Mobility in soil

Product:

Stability in soil : Remarks: no data available

Other adverse effects

Product:

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

Additional ecological information : Information refers to the main component.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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

Waste Code : NONE

SAFETY DATA SHEET



Hostastat HS 1 Pills ZN

Page 12

Substance key: SXR027092

Revision Date: 08/04/2025

Version : 6 - 0 / USA

Date of printing :08/27/2025

- Waste from residues : Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities
- Contaminated packaging : Packaging that cannot be cleaned should be disposed of as product waste

SECTION 14. TRANSPORT INFORMATION

DOT	not restricted
IATA	not restricted
IMDG	not restricted

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).

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.

Substance key: SXR027092

Revision Date: 08/04/2025

Version : 6 - 0 / USA

Date of printing :08/27/2025

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

Zinc distearate 557-05-1 $\geq 0.1 - < 1 \%$

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

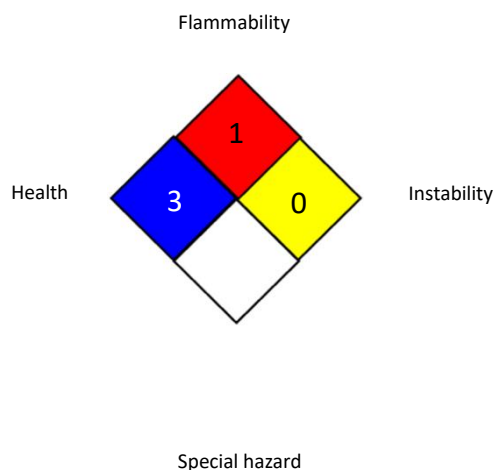
The components of this product are reported in the following inventories:

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; GHS - Globally Harmonised 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 Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50

SAFETY DATA SHEET



Hostastat HS 1 Pills ZN

Page 14

Substance key: SXR027092

Revision Date: 08/04/2025

Version : 6 - 0 / USA

Date of printing :08/27/2025

- 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 - Organisation 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

Observe national and local legal requirements

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Revision Date : 08/04/2025

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application. NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE. Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.

US / EN