

HOSTASTAT FE 2 P

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Substance key: SXR021315

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

Trade name:	HOSTASTAT FE 2 P
Material number:	116070
CAS number:	85251-77-0
Synonyms:	HOSTASTAT FE 2
Primary product use:	Additive
Chemical family:	Mono- / diglyceride of a mixture of natural fatty acids, mainly palmitic acid

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Combustible dust

GHS label elements

Signal word	: Warning
Hazard statements	: May form combustible dust concentrations in air.
Precautionary statements	: Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P243 Take action to prevent static discharges.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	: Substance
Substance name	: Stearic acid, monoester with glycerol
CAS-No.	: 85251-77-0

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Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Stearic acid, monoester with glycerol	31566-31-1	100

SECTION 4. FIRST AID MEASURES

- General advice : If symptoms persist, call a physician.
Show this safety data sheet to the doctor in attendance.
- 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.
- 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 medical attention immediately.
- Most important symptoms and effects, both acute and delayed : None known.
- Notes to physician : None known.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Foam
Carbon dioxide (CO₂)
Dry powder
Water mist
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Emits toxic fumes under fire conditions. This product presents no unusual fire or explosion hazards while sealed in a shipping container. During usage, if a dust cloud is generated, organic powders have the potential to be explosive with static spark or flame initiation.
- Further information : Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full

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protective clothing.

Special protective equipment : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition.
Wear suitable protective equipment.
Keep people away from and upwind of spill/leak.
Avoid dust formation.
Refer to protective measures listed in sections 7 and 8.
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.
Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

Methods and materials for containment and cleaning up : Pick up and transfer to properly labelled containers.
Clean thoroughly.
Treat recovered material as described in the section "Disposal considerations".
Keep in suitable, closed containers for disposal.
Non-sparking tools should be used.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Keep product and empty container away from heat and sources of ignition.

Take measures to prevent the build up of electrostatic charge.

Observe the general rules of industrial fire protection

Advice on safe handling : Avoid inhalation, ingestion and contact with skin and eyes.
Wash thoroughly after handling.

Technical measures/Precautions : Store in a cool, dry, well-ventilated area. Keep container sealed when not in use.

Materials to avoid : Do not store with strong oxidizing agents

Do not store or transport together with foodstuffs

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

Engineering measures : Use local exhaust ventilation to control residual dust from broken or crushed tablets/capsules when handling in bulk quantities.
Use only explosion-proof equipment.

Personal protective equipment

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

Hand protection
Remarks : Butyl Rubber, PVC Or Neoprene.

Eye protection : Safety glasses or chemical splash goggles.

Skin and body protection : Wear suitable protective equipment.

Protective measures : Wear suitable protective equipment.
When using, do not eat, drink or smoke.
Contaminated work clothing should not be allowed out of the workplace.
Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene measures : Observe the usual precautions for handling chemicals.
Wash hands before breaks and immediately after handling the product.
Do not eat, drink or smoke when using this product.
Remove contaminated clothing and protective equipment before entering eating areas.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Colour : light yellow

Odour : characteristic

Melting point : 58 - 61 °C

Boiling point : not available

Flash point : > 100 °C
Method: ISO 2592, open cup

Self-ignition : 145 °C

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Upper explosion limit / upper flammability limit	:	32 mg/l
Lower explosion limit / Lower flammability limit	:	60,000 - 125,000 mg/m3
Density	:	0.92 - 0.93 g/cm3 (60 °C)
Solubility(ies) Water solubility	:	practically insoluble (20 °C)
Partition coefficient: n-octanol/water	:	log Pow: 5.63
Decomposition temperature	:	No decomposition if used as directed.
Dust deflagration index (Kst)	:	158 m.b_/s
Dust explosion class	:	ST1 Capable of dust explosion
Minimum ignition energy	:	1 - 3 mJ

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use. Stable
Conditions to avoid	:	Avoid dust formation. Keep away from heat and sources of ignition. Keep away from flames and sparks. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.
Incompatible materials	:	not known
Hazardous decomposition products	:	No hazardous decomposition products if stored and handled as prescribed

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

None known.

Acute toxicity**Product:**

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- Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes
- Acute inhalation toxicity : LC50 (Rat, male): > 1.86 mg/l
Exposure time: 6 h
Method: OECD Test Guideline 403
GLP: no
Remarks: By analogy with a product of similar composition
- Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: Directive 67/548/EEC, Annex V, B.3.
GLP: no
Remarks: By analogy with a product of similar composition

Skin corrosion/irritation**Product:**

Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes

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

Species: rabbit eye
Result: No eye irritation
Method: OECD Test Guideline 405
GLP: yes

Respiratory or skin sensitisation**Product:**

Test Type: Guinea pig maximization test
Exposure routes: Dermal
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.
GLP: yes
Remarks: By analogy with a product of similar composition

Germ cell mutagenicity**Product:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Concentration: 1600 - 5000 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

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GLP: yes

Remarks: By analogy with a product of similar composition

Test Type: HGPRT assay

Test system: Chinese hamster ovary cells

Concentration: 31,25 - 1000 µg/ml

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: No information available.

Remarks: By analogy with a product of similar composition

Test Type: Ames test

Test system: Salmonella typhimurium

Concentration: 8 - 5000 µg/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Remarks: By analogy with a product of similar composition

Genotoxicity in vivo

: Test Type: Micronucleus test
 Species: Mouse (male and female)
 Cell type: Bone marrow
 Application Route: oral (gavage)
 Exposure time: 1x, 24 - 48 - 72 h
 Dose: 1000 - 10000 mg/kg
 Method: OECD Test Guideline 474
 Result: negative
 GLP: yes
 Test substance: other TS

Germ cell mutagenicity -
Assessment

: It is concluded that the product is not mutagenic based on
 evaluation of several mutagenicity tests.

Carcinogenicity**Product:**Carcinogenicity -
Assessment

: No information available.

IARC

Not listed

OSHA

Not listed

NTP

Not listed

Reproductive toxicity**Product:**

Effects on fertility

: Test Type: Fertility/early embryonic development
 Species: Rat, female
 Strain: Sprague-Dawley

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Application Route: oral (gavage)
Dose: 100 - 300 - 1000 mg/kg
General Toxicity - Parent: NOAEL: 1,000 mg/kg body weight
Method: OECD Test Guideline 422
GLP: yes
Remarks: By analogy with a product of similar composition

Effects on foetal development : Test Type: Fertility/early embryonic development
Species: Rat
Application Route: Ingestion
Dose: 100 - 300 - 1000 mg/kg
Duration of Single Treatment: 41 - 49 d
Frequency of Treatment: 1 daily
Developmental Toxicity: NOAEL: 1,000 mg/kg body weight
Method: OECD Test Guideline 422
GLP: yes

Reproductive toxicity - Assessment : No reproductive toxicity to be expected.
No teratogenic effects to be expected.

STOT - single exposure**Product:**

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

STOT - repeated exposure**Product:**

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: ca. 5,000 mg/kg
Application Route: oral (feed)
Exposure time: 13 w
Number of exposures: daily
Dose: 0,62-1,25-2,5-5,0-10,0 % diet
Group: yes
Method: OECD Test Guideline 408
GLP: yes
Remarks: By analogy with a product of similar composition

Application Route: Inhalation
Remarks: This information is not available.

Application Route: Dermal
Remarks: This information is not available.

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Aspiration toxicity**Product:**

no data available

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

- Toxicity to fish : LC0 (Danio rerio (zebra fish)): > 10,000 mg/l
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: ISO 7346/1
GLP: yes
Remarks: By analogy with a product of similar composition
The details of the toxic effect relate to the nominal concentration.
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0.01 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: Directive 67/548/EEC, Annex V, C.2.
GLP: yes
Remarks: By analogy with a product of similar composition
No toxicity at the limit of solubility
- Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 0.01 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: Directive 67/548/EEC, Annex V, C.3.
GLP: yes
Remarks: By analogy with a product of similar composition
No toxicity at the limit of solubility
- Toxicity to fish (Chronic toxicity) : Remarks: not required
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): > 0.01 mg/l
Exposure time: 21 d
Test Type: semi-static test
Analytical monitoring: no data available
Method: OECD Test Guideline 211
GLP: yes
Remarks: By analogy with a product of similar composition
No toxicity at the limit of solubility

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- Toxicity to microorganisms : GLP:
Remarks: not required
- Toxicity to soil dwelling organisms : Remarks: Not applicable
- Plant toxicity : Remarks: Not applicable
- Sediment toxicity : Remarks: Not applicable
- Toxicity to terrestrial organisms : Remarks: Not applicable

Persistence and degradability**Product:**

- Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Concentration: 2 - 5 mg/l
Result: Readily biodegradable.
Biodegradation: 69 - 95 % (Biochemical oxygen demand)
Exposure time: 28 d
Method: OECD Test Guideline 301D
GLP: yes
Remarks: By analogy with a product of similar composition

Bioaccumulative potential**Product:**

- Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Mobility in soil**Product:**

- Distribution among environmental compartments : Adsorption/Soil
Medium: water - soil
log Koc: 2.5 - 8.7
Method: estimated

Other adverse effects**Product:**

- Environmental fate and pathways : Remarks: no data available
- Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

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SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

- RCRA - Resource Conservation and Recovery Act
Waste from residues : No -- Not as sold.
- Waste from residues : Small quantities may be treated in aerobic wastewater treatment systems. Larger quantities may be incinerated or landfilled after solidification in permitted systems.
- Contaminated packaging : Packaging that cannot be cleaned should be disposed of as product waste
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Avoid release to the environment.

SECTION 14. TRANSPORT INFORMATION

- DOT not restricted
- IATA not restricted
- IMDG not restricted

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know****Act****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 311/312 Hazards : No SARA Hazards

SARA 313 : This product does not contain any toxic chemical listed under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986.

Clean Water Act

Contains no known priority pollutants at concentrations greater than 0.1%.

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

TSCA : Listed on TSCA

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

AICS - Australian Inventory of Chemical Substances; 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 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; 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

Handle with care. Organic dusts have the potential to be explosive with static spark or flame initiation.

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SAFETY DATA SHEET



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