

Hostanox O 3 Pills

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SECTION 1. IDENTIFICATION

Identification of the company:	Clariant Corporation 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704-331-7000
	Information of the substance/preparation: Product Safety 1-704-331-7710
	Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name:	Hostanox O 3 Pills
Material number:	116063
CAS number:	32509-66-3
Synonyms:	Hostanox O 3 granules
Chemical family:	bis-(3,3-bis-(4i-hydroxy-3i-tert.butylphenyl)butyric acid)- glycol ester

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Combustible dust :

GHS Label element

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.
 P243 Take precautionary measures against static discharge.
 P233 Keep container tightly closed.

Other hazards

Does not require a hazard warning label, but the normal safety precautions for handling chemicals must be observed.
 Dust can form an explosive mixture in air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Benzenepropanoic acid, 3-(1,1-dimethylethyl derivative)	32509-66-3	100

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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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 with soap and water. Contact physician if irritation or other symptoms occur. If hot wax strikes skin, drench or immerse the area in water to assist cooling. Do not remove wax from a burn after it cools. Consult a physician.
- 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 : If swallowed, DO NOT induce vomiting.
Do not give anything to drink.
Call a physician immediately.
- 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
Dry powder
- Unsuitable extinguishing media : High volume water jet
Carbon dioxide (CO2)
- Specific hazards during firefighting : None known.

Electrical grounding of equipment is required to prevent possible dust explosion. Emits toxic fumes under fire conditions.
- Further information : Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.
- Special protective equipment : Wear personal protective equipment.

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for firefighters

In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment. 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 : Take up mechanically

Treat recovered material as described in the section "Disposal considerations".

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Dust explosion class: ST2 Capable of dust explosion (Test performed on the powder form).
- Advice on safe handling : Avoid inhalation, ingestion and contact with skin and eyes. Wash thoroughly after handling. Avoid dust formation. Keep away from sources of ignition. Lead off electrostatic charges.
- Technical measures/Precautions : Store in a cool, dry, well-ventilated area. Keep container sealed when not in use.
- Materials to avoid : Do not store or transport together with foodstuffs

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

- Engineering measures** : Use adequate exhaust ventilation and/or dust collection to keep dust levels below exposure limits.
- Personal protective equipment**
- Respiratory protection : Use NIOSH/MSHA approved respirators following manufacturer's recommendations where dust or fume may be generated.
- Hand protection

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Remarks	: Nitrile rubber gloves.
Eye protection	: Safety glasses or chemical splash goggles.
Skin and body protection	: Wear suitable protective equipment.
Protective measures	: Observe the usual precautions for handling chemicals.
Hygiene measures	: Observe the usual precautions for handling chemicals. Do not eat, drink or smoke when using this product. Keep away from food and drink. Wash hands before breaks and at the end of workday. Keep working clothes separately.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Granules
Colour	: light yellow
Odour	: not specified
Odour Threshold	: not tested.
pH	: Not applicable
Crystalline melting point	: ≥ 167 °C Method: DSC (after annealing at 140 °C/4h for crystallisation) GLP: no
Boiling range	: 346 - 348 °C (1,013.25 hPa) Method: OECD Test Guideline 103 GLP: no
Flash point	: Not applicable
Evaporation rate	: not tested.
Flammability (solid, gas)	: not highly flammable GLP: no
Upper explosion limit	: not tested.
Lower explosion limit	: not tested.
Vapour pressure	: < 0.0000001 hPa (20 °C) Method: OECD Test Guideline 104 GLP: yes

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	< 0.0000001 hPa (25 °C) Method: OECD Test Guideline 104 GLP: yes
	< 0.0000001 hPa (50 °C) Method: OECD Test Guideline 104 GLP: yes
Relative vapour density	: not tested.
Relative density	: ca. 1.1 (23 °C) Method: ISO 1183 GLP: no
Solubility(ies) Water solubility	: 0.5 mg/l (20 °C) Method: OECD Test Guideline 105 GLP: no
Solubility in other solvents	: > 70 g/l (20 °C) Solvent: Acetone
	360 g/l (20 °C) Solvent: 1-octanol Method: OECD Test Guideline 105 GLP: yes
Partition coefficient: n- octanol/water	: log Pow: > 6.5 Method: OECD Test Guideline 117 GLP: no
Auto-ignition temperature	: not tested.
Decomposition temperature	: > 400 °C
Viscosity Viscosity, dynamic	: not tested.
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive Method: Expert judgement GLP: no
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

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Method: Expert judgement

GLP: no

The product does not contain organic peroxide-groups which result from either the manufacturing process or from added ingredients.

Surface tension : not required

SECTION 10. STABILITY AND REACTIVITY

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

Chemical stability : Stable

Possibility of hazardous reactions : The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions. The substance or mixture does not emit flammable gases in contact with water.
Not corrosive to metals

Conditions to avoid : None known.

Incompatible materials : no data available

Hazardous decomposition products : At high temperatures: thermal decomposition giving toxic products.
Carbon dioxide (CO₂)
Possible in traces:
Phenol

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.

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

Skin contact

Acute toxicity**Product:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute inhalation toxicity : Remarks: not tested.

Acute dermal toxicity : Remarks: not tested.

Skin corrosion/irritation**Product:**

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Species: Rabbit
Result: Mild skin irritation

Serious eye damage/eye irritation

Product:

Species: rabbit eye
Result: No eye irritation

Respiratory or skin sensitisation

Product:

Remarks: not tested.

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: not tested.

Germ cell mutagenicity - Assessment : No information available.

Carcinogenicity

Product:

Carcinogenicity - Assessment : No information available.

IARC Not listed

OSHA Not listed

NTP Not listed

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : No information available.

Repeated dose toxicity

Product:

Remarks: not tested.

Experience with human exposure

Product:

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

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Further information**Product:**

Remarks: According to experience, the product is considered to be harmless to health if used in the correct manner

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

- Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 100 - 1,000 mg/l
GLP: no
- Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)):
Exposure time: 48 h
Test Type: Immobilization
Method: OECD Test Guideline 202
GLP: yes
Remarks: No observable toxic effect in saturated solution.
- Toxicity to algae : ErC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 2.33 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201
GLP: yes
Remarks: No observable toxic effect in saturated solution.
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 5.00 mg/l
Exposure time: 21 d
End point: Reproduction rate
Test Type: semi-static test
Method: OECD Test Guideline 211
GLP: yes
Remarks: No toxicity at the limit of solubility
- Toxicity to bacteria : EC50 (activated sludge of a predominantly domestic sewage): > 1,000 mg/l
End point: Bacteria toxicity (respiration inhibition)
Exposure time: 3 h
Method: OECD Test Guideline 209
GLP: yes
- : NOEC (activated sludge of a predominantly domestic sewage): 1,000 mg/l
End point: Bacteria toxicity (respiration inhibition)
Exposure time: 3 h
Method: OECD Test Guideline 209
GLP: yes
- Toxicity to soil dwelling : Test Type: artificial soil

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organisms NOEC (Eisenia fetida (earthworms)): 1,000 mg/kg
Exposure time: 56 d
End point: Reproduction
Method: OECD Test Guideline 222
GLP: yes

Persistence and degradability**Product:**

Biodegradability : Test Type: aerobic
Inoculum: activated sludge, domestic, non-adapted
Biodegradation: 50 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes
Remarks: Not readily biodegradable.

Stability in water : Degradation half life (pH4): 508 d (20 °C) pH: 4
Hydrolysis: at 20 °C
Method: OECD Test Guideline 111
GLP: yes
Remarks: Hydrolyses readily.

Degradation half life (pH4): 178 d (30 °C) pH: 4
Hydrolysis: at 30 °C
Method: OECD Test Guideline 111
GLP: yes
Remarks: Hydrolyses readily.

Degradation half life (pH4): 456 h (50 °C) pH: 4
Hydrolysis: at 50 °C
Method: OECD Test Guideline 111
GLP: yes
Remarks: Hydrolyses slowly.

Degradation half life (pH7): 245 d (20 °C) pH: 7
Hydrolysis: at 20 °C
Method: OECD Test Guideline 111
GLP: yes
Remarks: Hydrolyses readily.

Degradation half life (pH7): 2,045 h (30 °C) pH: 7
Hydrolysis: at 30 °C
Method: OECD Test Guideline 111
GLP: yes
Remarks: Hydrolyses readily.

Degradation half life (pH7): 666 h (50 °C) pH: 7
Hydrolysis: at 50 °C
Method: OECD Test Guideline 111
GLP: yes
Remarks: Hydrolyses slowly.

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Degradation half life (pH9): 1,234 h (20 °C) pH: 9
Hydrolysis: at 20 °C
Method: OECD Test Guideline 111
GLP: yes
Remarks: Hydrolyses readily.

Degradation half life (pH9): 357 h (30 °C) pH: 9
Hydrolysis: at 30 °C
Method: OECD Test Guideline 111
GLP: yes
Remarks: Hydrolyses readily.

Degradation half life (pH9): 63.5 h (50 °C) pH: 9
Hydrolysis: at 50 °C
Method: OECD Test Guideline 111
GLP: yes
Remarks: Hydrolyses slowly.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: not available

Mobility in soil

Product:

Distribution among environmental compartments : adsorption
Medium: Soil
Koc: 8940, log Koc: 3.951
Method: OECD Test Guideline 121

Other adverse effects

Product:

Environmental fate and pathways : Remarks: no data available

Additional ecological information : Product is insoluble in water

May be eliminated in purification plants

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act
Waste from residues : No -- Not as sold.

: 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

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regulations.

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

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 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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 : On TSCA Inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information

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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.

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

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This information is supplied under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and is offered in good faith based on data available to us that we believe to be true and accurate. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable to the material. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate for that use. No warranty, express or implied, is made regarding the accuracy of this data, the hazards connected with the use of the material, or the results to be obtained from the use thereof. We assume no responsibility for damage or injury from the use of the product described herein. Data provided here are typical and not intended for use as product specifications.

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