

HOSTANOX O 3 P

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Substance key: SXR020969	Revision Date: 10/25/2021
Version : 4 - 3 / USA	Date of printing :04/01/2022

SECTION 1. IDENTIFICATION

Identification of the	Clariant Plastics & Coatings				
company:	(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: Material number:	HOSTANOX O 3 P 107014				
CAS number:	32509-66-3				
Primary product use:	Industrial use				
Chemical family:	Bis-(3,3-bis-(4'-hydroxy-3'-tert butylphenyl) butanoic acid)-glycol				

SECTION 2. HAZARDS IDENTIFICATION

ester

GHS classification in accordance with the OSHA Hazard Communication Standard (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. P243 Take precautionary measures against static discharge. P233 Keep container tightly closed.

Other hazards

Dust can form an explosive mixture in air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Substance
Substance name	:	Bis-(3,3-bis-(4'-hydroxy-3'-tert butylphenyl) butanoic acid)- glycol ester



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CAS-No. : 32509-66-3

Components

This product does not contain any components that require disclosure according to OSHA Hazard Communication Standard 2012.

SECTION 4. FIRST AID MEASUR	ES	
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.
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 conscious, give the victim plenty of water to drink. Get immediate medical advice/ attention.
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	:	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.



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Special protective equipment : for firefighters	Self-contained breathing apparatus
	Impervious clothing Protective helmets
SECTION 6. ACCIDENTAL RELEAS	SE 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 :	Do not allow to enter drains or waterways
Methods and materials for : containment and cleaning up	Take up mechanically
	Treat recovered material as described in the section "Disposal

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

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Take precautionary measures against build-up of electrostatic charges, e.g earthing during loading and off-loading operations. Keep away sources of ignition. Dust can form an explosive mixture in air.
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.
Further information on storage conditions	:	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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters Contains no substances with occupational exposure limit values.



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Engineering measures :	A system of local and/or general exhaust is recommended where employee exposures are at or above Occupational Exposure Limits (OEL).
Personal protective equipment	
Respiratory protection :	
Hand protection Remarks :	Nitrile rubber gloves.
Eye protection :	Safety glasses with side-shields
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.
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	:	powder
Colour	:	light yellow
Odour	:	not specified
Odour Threshold	:	no data available
рН	:	Not applicable
Crystalline melting point	:	>= 333 °F / >= 167 °C Method: DSC (after annealing at 140 °C/4h for crystallisation) GLP: no
Boiling range	:	655 - 658 °F / 346 - 348 °C (1,013.25 hPa) Method: OECD Test Guideline 103 GLP: no
Flammability (solid, gas)	:	not highly flammable Method: Regulation (EC) No. 440/2008, Annex, A.10



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Self-ignition	:	> 752 °F / > 400 °C Method: VDI 2263 (Grewer) GLP: no The substance or mixture is not classified as self heating.
		Method: Expert judgement GLP: no The substance or mixture is not classified as pyrophoric.
Burning number	:	1 Method: VDI 2263, ESCIS, Vol. 1 GLP: no Does not catch fire
Upper explosion limit / upper flammability limit	:	not tested.
Lower explosion limit / Lower flammability limit	:	20,000 mg/m3
Vapour pressure	:	< 0.0000001 hPa (68 °F / 20 °C) Method: OECD Test Guideline 104 GLP: yes
		< 0.0000001 hPa (77 °F / 25 °C) Method: OECD Test Guideline 104 GLP: yes
		< 0.0000001 hPa (122 °F / 50 °C) Method: OECD Test Guideline 104 GLP: yes
Relative density	:	ca. 1.1 (73 °F / 23 °C) Method: ISO 1183 GLP: no
Density	:	approx. 1.1 g/cm3 (73 °F / 23 °C) Method: ISO 1183
Solubility(ies) Water solubility	:	0.5 mg/l (68 °F / 20 °C) Method: OECD Test Guideline 105 GLP: no
Solubility in other solvents	:	> 70 g/l (68 °F / 20 °C) Solvent: Acetone
		360 g/l (68 °F / 20 °C) Solvent: 1-octanol Method: OECD Test Guideline 105 GLP: yes



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Partition coefficient: n- octanol/water	:	log Pow: > 6.5 Method: OECD Test Guideline 117 GLP: no
Auto-ignition temperature	:	788 °F / 420 °C
Decomposition temperature	:	> 752 °F / > 400 °C
Viscosity Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	Not applicable
Surface tension	:	not required
Conductivity	:	0 μS/cm
Dust deflagration index (Kst)	:	329 m.b_/s
Dust explosion class	:	St3
Minimum ignition energy	:	13 mJ with inductive electrical resistance

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	:	Keep away from heat and sources of ignition.
Incompatible materials	:	no data available
Hazardous decomposition products	:	At high temperatures: thermal decomposition giving toxic products. Carbon dioxide (CO2) Possible in traces: Phenol Toxic gases/vapours
		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.



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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposureEye contact
Skin contact
InhalationEye contactAcute toxicityEye contactProduct:
Acute oral toxicityEye contactAcute oral toxicity:LD50 (Rat, female): > 15,000 mg/kg
Method: OECD Test Guideline 401Acute inhalation toxicity:Acute dermal toxicity:Remarks: no data available

Skin corrosion/irritation

Product:

Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation

Serious eye damage/eye irritation

Product:

Species: Rabbit Result: No eye irritation Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Product:

Species: Mouse Method: OECD Test Guideline 429 Result: Not a skin sensitizer.

Germ cell mutagenicity

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
	Test Type: Mammalian cell gene mutation assay Test system: Chinese hamster fibroblasts Metabolic activation: with and without metabolic activation

Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative



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	Test Type: Chromosome aberration test in vitro Test system: Chinese hamster fibroblasts Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative
Germ cell mutagenicity - Assessment	: In vitro tests did not show mutagenic effects
Carcinogenicity	
Product:	
Carcinogenicity - Assessment	: No information available.
IARC	No component of this product present at levels greater than o 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 o equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No component of this product present at levels greater than o equal to 0.1% is identified as a known or anticipated carcinog by NTP.
Reproductive toxicity	
Product:	
Effects on foetal development	 Species: Rat, male and female Strain: wistar Application Route: oral (feed) Developmental Toxicity: NOAEL: 500 mg/kg body weight Method: OECD Test Guideline 415
	Species: Rat, male and female Strain: wistar Application Route: oral (feed) General Toxicity Maternal: NOAEL: 100 mg/kg body weigh Developmental Toxicity: NOAEL: 100 mg/kg body weight Method: OECD Test Guideline 421
Reproductive toxicity -	: No evidence of adverse effects on sexual function and fert or on development, based on animal experiments.

Remarks: no data available



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STOT - repeated exposure

Product:

Remarks: no data available

Repeated dose toxicity

Product:

Species: Rat, male and female NOAEL: 500 mg/kg bw/day Application Route: oral (feed) Method: OECD Test Guideline 452

Aspiration toxicity

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: 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	:	Remarks: no data available
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l End point: mortality Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	NOEC (Desmodesmus subspicatus (green algae)): 2.18 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201
Toxicity to fish (Chronic	:	Remarks: no data available



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toxicity)		
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 5 mg/l End point: Reproduction rate Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211
Toxicity to microorganisms	:	NOEC (activated sludge): 1,000 mg/l Exposure time: 3 h Test Type: static test Method: OECD Test Guideline 209
Toxicity to soil dwelling organisms	:	NOEC (Eisenia fetida (earthworms)): 1000 mg/kg dry weight (d.w.) Exposure time: 56 d Method: OECD Test Guideline 222
Ecotoxicology Assessment		
Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.
Persistence and degradabil	ity	
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 (pH): 508 d (68 °F / 20 °C) pH: 4 Hydrolysis: at 68 °F / 20 °C Method: OECD Test Guideline 111 GLP: yes Remarks: Hydrolyses readily.
		Degradation half life (pH): 178 d (86 °F / 30 °C) pH: 4 Hydrolysis: at 86 °F / 30 °C Method: OECD Test Guideline 111 GLP: yes Remarks: Hydrolyses readily.
		Degradation half life (pH): 456 h (122 °F / 50 °C) pH: 4 Hydrolysis: at 122 °F / 50 °C Method: OECD Test Guideline 111 GLP: yes Remarks: Hydrolyses slowly.
		Degradation half life (pH): 245 d (68 °F / 20 °C) pH: 7



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	Method: OECD Test Guideline 111
	GLP: yes
	Remarks: Hydrolyses readily.
	Degradation half life (pH): 2,045 h (86 °F / 30 °C) pH: 7
	Hydrolysis: at 86 °F / 30 °C
	Method: OECD Test Guideline 111 GLP: yes
	Remarks: Hydrolyses readily.
	Degradation half life (pH): 666 h (122 °F / 50 °C) pH: 7
	Hydrolysis: at 122 °F / 50 °C
	Method: OECD Test Guideline 111
	GLP: yes Remarks: Hydrolyses slowly.
	Degradation half life (pH): 1,234 h (68 °F / 20 °C) pH: 9
	Hydrolysis: at 68 °F / 20 °C
	Method: OECD Test Guideline 111
	GLP: yes
	Remarks: Hydrolyses readily.
	Degradation half life (pH): 357 h (86 °F / 30 °C) pH: 9
	Hydrolysis: at 86 °F / 30 °C Method: OECD Test Guideline 111
	GLP: yes
	Remarks: Hydrolyses readily.
	Degradation half life (pH): 63.5 h (122 °F / 50 °C) pH: 9
	Hydrolysis: at 122 °F / 50 °C
	Method: OECD Test Guideline 111 GLP: yes
	Remarks: Hydrolyses slowly.
Bioaccumulative potential	
Product:	
	: Remarks: Low potential for bioaccumulation (log Pow < 3).
Mobility in soil	
Product:	
Distribution among	: adsorption Medium: Soil
environmental compartments	Koc: 8940, log Koc: 3.951
	Method: OECD Test Guideline 121
Other adverse effects	
Product:	
Additional ecological	: Product is insoluble in water
information	

CLARIANT

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		May be eliminated in purification plants
		The product should not be allowed to enter drains, water courses or the soil.
SECTION 13. DISPOSAL CONSI	DEF	RATIONS
RCRA - Resource Conservation and Recovery Authorization Act	:	This product, if discarded as sold, is not a Federal RCRA hazardous waste.
Waste Code	:	None
Waste from residues	:	Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.
Contaminated packaging	:	Packaging that cannot be cleaned should be disposed of as product waste

SECTION 14. TRANSPORT INFORMATION

DOT	not restricted
ΙΑΤΑ	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	:	Combustible dust
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).



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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 SOCMI 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.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

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

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

For additional information, contact Product Stewardship.

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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.



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