

EXOLIT OP 1311

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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: EXOLIT OP 1311**Material number:** 204968**Primary product use:** Flame retardants**Chemical family:** Mixture of organic phosphorus compounds

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), None under Title III of SARA

SECTION 4. FIRST AID MEASURES

- General advice : Remove contaminated clothing and shoes.
Get medical advice/ attention if you feel unwell.
- 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 : Flush eyes with water at least 15 minutes. Get medical

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attention if eye irritation develops or persists.

- If swallowed : Get 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 : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : gaseous extinguishing media
- Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:
Carbon monoxide (CO)
Carbon dioxide (CO₂)
Phosphorus oxides (eg Phosphorus pentoxide)
- 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 protective clothing.
- Special protective equipment for firefighters : Self-contained breathing apparatus

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Do not breathe dust.
Avoid contact with skin and eyes.
Wear personal protective equipment. Unprotected persons must be kept away.
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 let product enter drains.
Retain and dispose of contaminated wash water.

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Methods and materials for containment and cleaning up : Take up mechanically
Dispose of absorbed material in accordance with the regulations.
Avoid dust formation.
Take measures to prevent the build up of electrostatic charge.
Risk of dust explosion.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Dust can form an explosive mixture in air. Keep away sources of ignition. Avoid dust formation. Avoid dust accumulation in enclosed space. In areas with dust explosion hazard: maximum surface temperature of 310 °C (according DIN EN 50281-2-1).

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.

Conditions for safe storage : Protect from moisture.

Technical measures/Precautions : Keep containers tightly closed in a dry, cool and well-ventilated place.
Protect from moisture.

Materials to avoid : Observe TRGS 514Ü (storage compatibility)

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

No level has been established by OSHA, NIOSH, ACGIH.

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.

Hand protection

Remarks : Wear suitable gloves. PVC

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear suitable protective equipment.

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- Protective measures : Do not breathe dust.
Avoid contact with skin.
Avoid contact with 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 : powder
- Colour : white
- Odour : odourless
- Odour Threshold : Not tested
- pH : 4, Concentration: 100 g/l (20 °C)
- Decomposition temperature : from 300 °C
Method: DTA
- Initial boiling point and boiling range : Not applicable Decomposes below the boiling point.
- Flash point : Not applicable
- Evaporation rate : Not applicable
- Flammability (solid, gas) : does not ignite
Method: Flammability (solids)
- Upper explosion limit : Not applicable
- Lower explosion limit : Not applicable
- Vapour pressure : Not applicable
- Relative vapour density : Not applicable
- Density : 1.4 g/cm³ (20 °C)
- Bulk density : 400 - 600 kg/m³ (20 °C)
- Solubility(ies)
Water solubility : < 1 g/l (20 °C)

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Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: > 230 °C Method: DSC The substance or mixture is not classified self-reactive.
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive Not explosive Method: EEC L251,A.14. 1984 * thermal
Oxidizing properties	: Method: Expert judgement The product does not contain organic peroxide-groups which result from either the manufacturing process or from added ingredients.
Impact sensitivity	: Not impact sensitive.
Surface tension	: Based on chemical structure, no surface activity is expected or can be predicted.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable
Possibility of hazardous reactions	: Dust can form an explosive mixture in air. Stable
Conditions to avoid	: Temperatures exceeding thermal stability. High concentration of powders. Electrostatic charges.
Incompatible materials	: not known
Hazardous decomposition products	: No decomposition if used as directed. 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**

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Eye contact
Skin contact
Inhalation

Acute toxicity**Product:**

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

Acute dermal toxicity : LD50 (rat (female)): > 2,000 mg/kg
Method: OECD Test Guideline 402

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: slight irritant effect - does not require labelling
Method: OECD Test Guideline 405

Respiratory or skin sensitisation**Product:**

Species: Guinea pig
Method: OECD Test Guideline 406
Result: non-sensitizing

Germ cell mutagenicity**Product:**

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Germ cell mutagenicity -
Assessment : Not mutagenic in Ames Test

No information available.

Carcinogenicity

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IARC Not listed**OSHA** Not listed**NTP** Not listed**Repeated dose toxicity****Product:**

Species: Rats (Male/Female), male and female

NOAEL: > 1,000 mg/kg

Application Route: oral (gavage)

Exposure time: 29

Number of exposures: 28

Method: OECD Test Guideline 407

GLP: yes

Experience with human exposure**Product:**

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

Further information**Product:**

Remarks: No data is available on the product itself.

The classification was made by the conventional (calculation) method of the CLP Regulation (EC) No 1272/2008.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202Toxicity to algae : NOEC (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 180 mg/l
Analytical monitoring: yes
Method: Tested according to Directive 92/69/EEC.
GLP: yesToxicity to bacteria : EC50 (activated sludge): = 1,968 mg/l
Exposure time: 3 h

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Method: OECD Test Guideline 209

GLP:

Toxicity to soil dwelling organisms : Remarks: not available

Sediment toxicity : Remarks: not available

Toxicity to terrestrial organisms : Remarks: not available

Persistence and degradability**Product:**

Biodegradability : Test Type: anaerobic Degradability
Result: Not biodegradable
Method: OECD Test Guideline 302B
GLP: no
Remarks: Data refer to the organic component.

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: not available

Mobility in soil**Product:**

Distribution among environmental compartments : Remarks: not available

Other adverse effects**Product:**

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

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.
The product has not been tested. The information is derived from the properties of the individual components.
The classification was made by the conventional (calculation) method of the CLP Regulation (EC) No 1272/2008.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

RCRA - Resource Conservation and Recovery Act

Waste from residues : No -- Not as sold.
Dispose of spilled or waste product, contaminated soil and

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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

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), KECl (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION**Further information**

SAFETY DATA SHEET



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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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