

## EXOLIT OP 1400 (LP)

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Version : 2 - 6 / USA

Revision Date: 04/29/2019  
Date of printing :06/09/2019

## SECTION 1. IDENTIFICATION

<b>Identification of the company:</b>	Clariant Plastics & Coating USA LLC 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704 331 7000
	<b>Information of the substance/preparation:</b> Product Stewardship, +1-704-331-7710
	<b>Emergency tel. number:</b> +1 800-424-9300 CHEMTREC

**Trade name:** EXOLIT OP 1400 (LP)  
**Material number:** 253192

**Primary product use:** Flame retardants  
**Chemical family:** mixture of flame retardants

## 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 precautionary measures against static discharge.

**Other hazards**

Risk of dust explosion.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Pure substance

Substance name : mixture of flame retardants

CAS-No. : Not Assigned

**Components**

No hazardous ingredients

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**SECTION 4. FIRST AID MEASURES**

- General advice : Remove contaminated clothing and shoes.
- 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 : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Get medical attention.  
Wash clothing before reuse.  
Destroy contaminated shoes.
- In case of eye contact : Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or 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.

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**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 (CO<sub>2</sub>)  
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.

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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

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**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.

Environmental precautions : Do not let product enter drains.  
Retain and dispose of contaminated wash water.

Methods and materials for containment and cleaning up : Pick up mechanically. Rinse away rest with water.  
Avoid dust formation.

Dispose of absorbed material in accordance with the regulations.

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**SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion : Avoid dust formation.

Not combustible.

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 : Keep container tightly closed in a cool, well-ventilated place.

Further information on storage conditions : Store in original container.  
Keep container tightly closed.  
Store in a cool, dry, well-ventilated area.

Materials to avoid : Keep in a cool place.  
Keep away from alkali.

Further information on storage stability : The product must not be stored above 100 °C.

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

Contains no substances with occupational exposure limit values.

**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 : Butyl Rubber, PVC Or Neoprene.

Eye protection : Chemical splash goggles or safety glasses with full face shield

Skin and body protection : Wear suitable protective equipment.

Protective measures : Do not breathe dust.  
Avoid contact with skin.  
Avoid contact with eyes.Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Clean skin thoroughly after work; apply skin cream.**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance : powder  
Colour : white  
Odour : odourless  
Odour Threshold : not determined  
pH : 4.2 (68 °F / 20 °C)  
Concentration: 10 g/l  
Melting point : > 680 °F / > 360 °C  
Boiling point : not determined  
Flash point : Not applicable  
Evaporation rate : Not applicable

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Flammability (solid, gas)	:	not determined
Self-ignition	:	Method: Expert judgement The substance or mixture is not classified as pyrophoric.  644 °F / 340 °C 25 bar Method: VDI 2263 (Grewer) not auto-flammable
Burning number	:	1 Method: VDI 2263, ESCIS, Vol. 1 Does not catch fire
Upper explosion limit / upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Density	:	1.448 g/cm <sup>3</sup> (68 °F / 20 °C)
Bulk density	:	466 g/l Method: DIN 53466
Solubility(ies)	:	
Water solubility	:	3.2 g/l (68 °F / 20 °C)
Solubility in other solvents	:	not determined
Partition coefficient: n-octanol/water	:	not determined
Auto-ignition temperature	:	not determined
Decomposition temperature	:	> 662 °F / > 350 °C Heating rate: 5 K/min Method: DTA  824 - 860 °F / 440 - 460 °C Heating rate: 3 K/min Method: DSC Open cup at 25 bar air pressure  752 - 878 °F / 400 - 470 °C Heating rate: 3 K/min Method: DSC closed cup The substance or mixture is not classified self-reactive.

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Self-Accelerating decomposition temperature (SADT)	:	> 167 °F / > 75 °C
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive Not explosive Method: Regulation (EC) No. 440/2008, A.14
Oxidizing properties	:	Method: Expert judgement The product does not contain organic peroxide-groups which result from either the manufacturing process or from added ingredients.
Surface tension	:	Based on chemical structure, no surface activity is expected or can be predicted.
Dust explosion class	:	ST1 Capable of dust explosion
Minimum ignition energy	:	> 100 mJ (68 °F / 20 °C) Method: Mike 3 apparatus
Particle size	:	14 µm Median value

**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 Risk of dust explosion.
Conditions to avoid	:	Temperatures exceeding thermal stability. High concentration of powders. Electrostatic charges.
Incompatible materials	:	none
Hazardous decomposition products	:	No hazardous decomposition products if stored and handled as prescribed No decomposition if used as directed.

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

Eye contact

Skin contact

Inhalation

**Acute toxicity****Product:**

Acute oral toxicity : Acute toxicity estimate: 2,500 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 29.17 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 2,500 mg/kg  
Method: Calculation method

**Skin corrosion/irritation****Product:**

Remarks: no data available

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

Remarks: no data available

**Respiratory or skin sensitisation****Product:**

Remarks: no data available

**Germ cell mutagenicity****Product:**

Germ cell mutagenicity - : No information available.  
Assessment

**Carcinogenicity****Product:**

Carcinogenicity - : No information available.  
Assessment

**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.

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**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****Product:**

Reproductive toxicity - Assessment : No information available.

**Repeated dose toxicity****Product:**

Remarks: This information is not available.

**Experience with human exposure****Product:**

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

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

Toxicity to fish :  
Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates :  
Remarks: no data available

Toxicity to algae/aquatic plants :  
Remarks: no data available

Toxicity to microorganisms :  
Remarks: no data available

**Persistence and degradability****Product:**

Biodegradability :  
Remarks: not available

**Bioaccumulative potential****Product:**

Bioaccumulation :  
Remarks: not available



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**Mobility in soil**

no data available

**Other adverse effects****Product:**

Environmental fate and pathways : Remarks: not available

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.  
Avoid release to the environment.**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**RCRA - Resource Conservation and Recovery Act Waste Code : No -- Not as sold.  
: NONE

Waste from residues : 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 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 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

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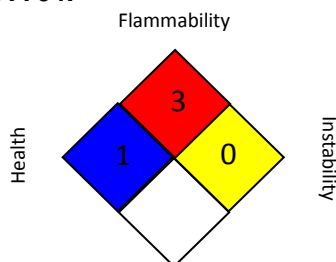
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**SARA 311/312 Hazards** : Combustible dust**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.**Clean Water 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, All components are compliant with the TSCA Inventory Notification (Active) rule.

**SECTION 16. OTHER INFORMATION****Further information****NFPA 704:****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 -

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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

Observe national and local legal requirements

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

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