

## EXOLIT OP 550 (LV)

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Revision Date: 04/28/2015

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## SECTION 1. IDENTIFICATION

<b>Identification of the company:</b>	Clariant Produkte (Deutschland) GmbH Frankfurt am Main, 65926 Telephone No.: +49 69 305 18000
<b>Information of the substance/preparation:</b>	Product Safety 1-704-331-7710
<b>Emergency tel. number:</b>	+1 800-424-9300 CHEMTREC

**Trade name:** EXOLIT OP 550 (LV)  
**Material number:** 156480

**Primary product use:** Flame retardants  
**Chemical family:** polymeric ester of ethylene glycol and phosphoric acid with ethyl and hydroxyalkyl groups

## SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification**

Reproductive toxicity : Category 1B

**GHS Label element**

Hazard pictograms :



Signal word : Danger

Hazard statements : H360 May damage fertility or the unborn child.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P281 Use personal protective equipment as required.  
**Response:**  
P308 + P313 IF exposed or concerned: Get medical advice/attention.  
**Storage:**  
P405 Store locked up.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
2-Ethoxyethanol	110-80-5	0.2

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

**SECTION 4. FIRST AID MEASURES**

- General advice : Get medical attention.
- 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 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.
- : If conscious, give the victim plenty of water to drink.  
Consult a physician.  
Never give anything by mouth to an unconscious person.
- 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 : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water mist  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:  
Carbon monoxide (CO)

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Phosphorus oxides (eg Phosphorus pentoxide)  
Carbon dioxide (CO<sub>2</sub>)

Burning produces noxious and toxic fumes.

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 : Wear suitable protective clothing.  
Wear suitable protective equipment.  
Contain spill. Small spills may be flushed to the sewer or absorbed on suitable absorbents. Larger spills should be collected as liquid or absorbed. Clean-up may be accomplished by flushing with water if appropriate or remove contaminated soils. place in appropriate containers.

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Dispose of contaminated material as prescribed

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**SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion : No special measures necessary.

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

Use personal protective equipment.  
Avoid breathing dust.  
Avoid contact with skin and eyes.  
Wash thoroughly after handling.  
Store in a dry place.  
Keep away from heat.  
Store in original container.  
Keep container tightly closed.

Avoid contact with skin, eyes and clothing.  
Wash thoroughly after handling.

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Technical measures/Precautions : Store in original container.  
Keep container tightly closed.  
Store in a cool, dry, well-ventilated area.

Store in original container.  
Keep container tightly closed.  
Store in a cool, dry, well-ventilated area.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-Ethoxyethanol	110-80-5	TWA	5 ppm	ACGIH
	Further information: Embryo/fetal damage, Male reproductive damage, Substances for which there is a Biological Exposure Index or Indices (see BEI® section), Danger of cutaneous absorption			
		TWA	0.5 ppm 1.8 mg/m3	NIOSH REL
	Further information: Potential for dermal absorption			
		TWA	200 ppm 740 mg/m3	OSHA Z-1
	Further information: Skin designation, The value in mg/m3 is approximate.			
		TWA	200 ppm 740 mg/m3	OSHA P0

## 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 : Do not breathe mist.

Hygiene measures : Clean skin thoroughly after work; apply skin cream.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	: Liquid
Colour	: colourless to yellow-brown
Odour	: sweet
Odour Threshold	: not determined
pH	: approx. 5, Concentration: 10 g/l (20 °C)
Melting point	: < -20 °C
Boiling point (decomposition)	: > 150 °C (1,013 hPa)
Flash point	: not tested.
Evaporation rate	: not determined
Upper explosion limit	: not determined
Lower explosion limit	: not determined
Vapour pressure	: < 10 mbar (20 °C)
Relative vapour density	: not determined
Relative density	: no data available
Density	: 1.31 g/cm <sup>3</sup> (25 °C)
Bulk density	: Not applicable
Solubility(ies) Water solubility	: miscible (20 °C)
Partition coefficient: n- octanol/water	: not tested.
Auto-ignition temperature	: not tested.
Decomposition temperature	: > 150 °C Method: DTA
Viscosity Viscosity, dynamic	: approx. 2,000 mPa.s (25 °C)
Viscosity, kinematic	: not determined
Explosive properties	: Not explosive

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Not explosive  
Method: Expert judgement

Impact sensitivity : Not impact sensitive.

Molecular weight : no data available

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**SECTION 10. STABILITY AND REACTIVITY**

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

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

Conditions to avoid : Thermal decomposition

Incompatible materials : Keep away from strong bases.  
Oxidizer

Hazardous decomposition products : No decomposition if used as directed.

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

Eye contact

Skin contact

Ingestion

**Acute toxicity****Product:**Acute oral toxicity : LD50 (rat (male)): > 2,000 mg/kg  
Method: EC Directive 92/69/EEC B.1bisAcute inhalation toxicity : Acute toxicity estimate: > 40 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Remarks: no data available

Acute dermal toxicity : Remarks: This information is not available.

**Components:****2-Ethoxyethanol:**

Acute oral toxicity : LD50 (Rat): 3,000 mg/kg

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

Remarks: no data available

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

Remarks: no data available

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

Remarks: This information is not available.

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

Germ cell mutagenicity - Assessment : Not mutagenic in Ames Test

**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.

**STOT - single exposure****Product:**

Remarks: no data available

**STOT - repeated exposure****Product:**

Remarks: no data available

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**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).

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1,000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203Toxicity to daphnia and other aquatic invertebrates :  
Remarks: no data availableToxicity to algae :  
Remarks: no data available

Toxicity to bacteria : EC50 (Pseudomonas putida): &gt; 1,000 mg/l

**Persistence and degradability****Product:**Biodegradability : Test Type: anaerobic Degradability  
Biodegradation: < 20 %  
Method: Measurement of Gas Production, 35°C, 90 d, ISO 11734.  
GLP: yesBiodegradation: < 20 %  
Method: OECD Test Guideline 302B  
GLP: yes**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: not available

**Mobility in soil****Product:**

Distribution among environmental compartments : Remarks: no data available



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

Environmental fate and pathways : Remarks: no data available

Results of PBT and vPvB assessment : After consideration of all available toxicity and ecotoxicity data it is concluded that the substance does not fulfil the PBT or vPvB criteria.

Additional ecological information : no data available

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

RCRA - Resource Conservation and Recovery Act

Authorization Act

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 : Uncontaminated packaging may be taken for recycling

**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**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
2-Ethoxyethanol	110-80-5	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

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- SARA 311/312 Hazards** : Acute Health Hazard  
Chronic Health Hazard
- SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313** : This product contains toxic chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right- To-Know Act of 1986 and 40 CFR 372. Any such toxic chemical(s) are shown below. This information must be included in all MSDS's that are copied and distributed for this material.
- |                 |          |       |
|-----------------|----------|-------|
| 2-Ethoxyethanol | 110-80-5 | 0.2 % |
|-----------------|----------|-------|

#### 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

Observe national and local legal requirements  
None known.

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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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