

EXOLIT OP 560

Page 1

Substance key: 000000015798

Revision Date: 09/20/2018

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SECTION 1. IDENTIFICATION**Identification of the company:**

Clariant Plastics & Coating USA Inc.
4000 Monroe Road
Charlotte, NC, 28205
Telephone No.: +1 704 331 7000

Information of the substance/preparation:

Product Stewardship, +1-704-331-7710

Emergency tel. number: +1 800-424-9300 CHEMTREC**Trade name:****EXOLIT OP 560****Material number:**

150522

Primary product use:

Flame retardants

Chemical family:

Phosphorpolyol

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with 29 CFR 1910.1200**

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Substance name : Phosphorpolyol

CAS-No. : Not Assigned

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/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.

EXOLIT OP 560

Page 2

Substance key: 000000015798

Revision Date: 09/20/2018

Version : 2 - 10 / USA

Date of printing :12/07/2018

- 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 thoroughly with plenty of water for at least 15 minutes and consult a physician.
- If swallowed : If conscious, give the victim plenty of water to drink. Do NOT induce vomiting. 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 : Water spray jet
Foam
Carbon dioxide (CO₂)
Dry powder
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO₂)
Phosphorus oxides (eg Phosphorus pentoxide)
- 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 : Use breathing apparatus.
Full protective suit

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment.
Wear suitable protective equipment.
Sweep up and shovel into suitable containers for disposal.
Pick up contaminated soil.
Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.
- Environmental precautions : Do not empty into drains.

EXOLIT OP 560

Page 3

Substance key: 000000015798

Revision Date: 09/20/2018

Version : 2 - 10 / USA

Date of printing :12/07/2018

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Treat recovered material as described in the section "Disposal considerations".

SECTION 7. HANDLING AND STORAGE

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

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

Conditions for safe storage : Protect from moisture.

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

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

Engineering measures : Use with local exhaust ventilation.

Personal protective equipment

Respiratory protection : Use NIOSH/MSHA approved respirators following manufacturer's recommendations where dust or fume may be generated.

Hand protection
Remarks : Nitrile rubber gloves.

Eye protection : Safety glasses with side-shields
Tightly fitting safety goggles

Skin and body protection : Wear suitable protective equipment.

Protective measures : Observe the usual precautions for handling chemicals.

Hygiene measures : Do not eat, drink or smoke when using this product.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid

Colour : colourless

EXOLIT OP 560

Page 4

Substance key: 000000015798

Revision Date: 09/20/2018

Version : 2 - 10 / USA

Date of printing :12/07/2018

Odour	:	sweetish, weakly
Odour Threshold	:	Not tested
pH	:	approx. 4.5 Concentration: 10 g/l
Melting point	:	< -30 °C
Boiling point (decomposition)	:	> 150 °C (1,013 hPa)
Flash point	:	196 °C Method: Cleveland open cup
Evaporation rate	:	not determined
Flammability (solid, gas)	:	not determined
Self-ignition	:	no data available
Upper explosion limit / upper flammability limit	:	no data available
Lower explosion limit / Lower flammability limit	:	no data available
Vapour pressure	:	no data available
Relative vapour density	:	no data available
Relative density	:	no data available
Density	:	approx. 1.20 g/cm ³ (25 °C)
Solubility(ies) Water solubility	:	hydrolyses
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	not tested.
Decomposition temperature	:	> 150 °C Method: DTA
Viscosity Viscosity, dynamic	:	approx. 100 - 500 mPa.s
Viscosity, kinematic	:	not determined
Molecular weight	:	no data available

Substance key: 000000015798

Revision Date: 09/20/2018

Version : 2 - 10 / USA

Date of printing :12/07/2018

Particle size : Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity : See section 10.3. "Possibility of hazardous reactions"

Chemical stability : Stable

Possibility of hazardous reactions : Reactions with alkalies.
Exothermic reaction

Conditions to avoid : Keep away from strong bases.

Incompatible materials : See under section "Conditions to avoid"

Hazardous decomposition products : No decomposition if used as directed.

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

Skin contact

Ingestion

Inhalation

Acute toxicity**Product:**

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

Acute inhalation toxicity : Remarks: not available

Acute dermal toxicity : Remarks: no data available

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

Result: No eye irritation

Method: OECD Test Guideline 405

GLP: yes

EXOLIT OP 560

Page 6

Substance key: 000000015798

Revision Date: 09/20/2018

Version : 2 - 10 / USA

Date of printing :12/07/2018

Respiratory or skin sensitisation**Product:**

Remarks: no data 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: not available

STOT - repeated exposure**Product:**

Remarks: not available

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).

Substance key: 000000015798

Revision Date: 09/20/2018

Version : 2 - 10 / USA

Date of printing :12/07/2018

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

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l
Exposure time: 95 h
Method: OECD Test Guideline 203
GLP: yes

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

Toxicity to algae :
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

Mobility in soil**Product:**

Distribution among :
environmental compartments Remarks: not available

Other adverse effects**Product:**

Additional ecological :
information no data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

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

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

Substance key: 000000015798

Revision Date: 09/20/2018

Version : 2 - 10 / USA

Date of printing :12/07/2018

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 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, All components are compliant with the TSCA Inventory Notification (Active) rule.

SECTION 16. OTHER INFORMATION**Further information****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 -

Substance key: 000000015798

Revision Date: 09/20/2018

Version : 2 - 10 / USA

Date of printing :12/07/2018

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

The product is listed in Schedule 2 B(4) of the Chemical Weapons Convention.
None known.

Revision Date : 09/20/2018

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