

Safety data sheet in accordance with 2001/58/EC
EXOLIT OP 1312

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Substance key: 000000131484
Version : 2 - / EURevision Date: 07.06.2004
Date of printing : 09.06.2004**1. Identification of the substance/preparation and company****Trade name****EXOLIT OP 1312****Material number:** 191565**Use of the substance/preparation.**Industry sector : Plastic processing industry.
Type of use : flameproofing agents**Identification of the company**Clariant GmbH
Chemiepark Knapsack
50351 Hürth
Telephone no. : +49 2233 480**Information about the substance/preparation**Division Pigments & Additives
+49(0)2233-48-6152, PA.EHS@Clariant.com**Emergency telephone number :** +49 69 305 6418**2. Composition/information on ingredients****Chemical characterization**

mixture of flame retardants

Hazardous ingredientsZinc borate
Concentration : < 5 %
Hazard symbols N
R phrases 50/53**3. Hazards identification**

|| Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

|| The product may cause dust explosions.

4. First aid measures**General information**

Seek medical assistance if discomfort continues

After inhalation

Remove the casualty into fresh air and keep him calm.

After contact with skin

In case of contact with skin, clean with soap and water.

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Rinse the affected eye with plenty of water, at the same time keep the unaffected eye well protected.

After ingestion

If swallowed do not induce vomiting, seek medical advice and show safety datasheet or label

5. Fire-fighting measures**Suitable extinguishing media**

water spray jet
foam

Extinguishing media that must not be used for safety reasons

carbon dioxide
dry powder

Special hazards from the substance itself, its combustion products or from its vapours

In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO)
Carbon dioxide (CO₂)
hydrogen cyanide (hydrocyanic acid)

Special protective equipment for firefighting

Use self-contained breathing apparatus

6. Accidental release measures**Environmental precautions**

Do not allow entry to drains, water courses or soil

Methods for cleaning up/taking up

Take up mechanically
Dispose of absorbed material in accordance with the regulations.
Avoid dust formation and electrical charging (sparking) because dust explosion might occur.

7. Handling and storage**Advice on safe handling**

Avoid dust formation.
Provide exhaust ventilation if dust is formed.
Take precautionary measures against electrostatic loading.

Advice on protection against fire and explosion

Take precautionary measures against electrostatic charges - earthing necessary during loading operations.
Keep away from sources of ignition
Dust can form an explosive mixture with air.

Requirements for storage rooms and vessels

Protect from moisture.

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Keep away from flammable substances.

Storage stability

When stored in unopened container, the product is stable for at least 12 month.

8. Exposure controls/personal protection**General protective measures**Observe the usual precautions for handling chemicals.
Observe General Limit For Dust (6mg/m³)**Hygiene measures**Wash hands before breaks and after work.
Use barrier skin cream.
Remove soiled or soaked clothing immediately and clean thoroughly before using again.**Respiratory protection :**Use respiratory protection if dust is raised
Wear dust mask when handling large quantities**Hand protection :**antistatic gloves
PVC or PE gloves
Minimum breakthrough time (glove): not applicable
Minimum thickness (glove): not determined
Observe the information of the glove manufacturers on permeability and breakthrough times and other workplace requirements**Eye protection :**

tightly fitting safety glasses

Body protection :

working clothes

9. Physical and chemical properties

| | |
|--|-------------------------------|
| Form : | solid |
| Colour : | white |
| Odour : | odourless |
| Flash point : | Not applicable |
| Ignition temperature : | Not applicable |
| Vapour pressure : | Not applicable |
| Density : | 1,6 g/cm ³ (20 °C) |
| Solubility in water : | < 10 g/l (20 °C) |
| pH value : | 4 (20 °C, 100 g/l) |
| Octanol/water partition coefficient (log Pow) : | Not determined |
| Viscosity (dynamic) : | Not applicable |

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Risk of dust explosions.**Hazardous decomposition products**

when handled and stored appropriately no dangerous decomposition products are known

Conditions to avoid

Temperatures exceeding thermal stability of the masterbatch. High concentration of powders. Electrostatic charges.

11. Toxicological information**Acute oral toxicity :** LD50 > 2.000 mg/kg (rat)**Irritant effect on skin :** non-irritant (rabbit)**Irritant effect on eyes :** non-irritant (rabbit eye)**Remarks**

The product has not been tested. The statements are derived from products of a similar composition.

12. Ecological information**Remarks**

Do not allow to enter soil, waterways or waste water

13. Disposal considerations**Product**

Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities

Uncleaned packaging

Packaging that cannot be cleaned should be disposed of as product waste

14. Transport information

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Proper shipping name: Environmentally hazardous substance, solid, n.o.s.
Class: 9
Packing group: III
UN no. UN 3077
Primary risk: 9
Hazard no. : 90
Remarks Shipment permitted
Hazard inducer(s): Zinc borate

ADNR

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.
Class: 9
Packing group: III
UN no. UN 3077
Primary risk: 9
Remarks Shipment permitted
Hazard inducer(s): Zinc borate

RID

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.
Class: 9
Packing group: III
UN no. UN 3077
Primary risk: 9
Hazard no. : 90
Remarks Shipment permitted
Hazard inducer(s): Zinc borate

IATA

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.
Class: 9
Packing group: III
UN/ID number: UN 3077
Primary risk: 9
Remarks Shipment permitted
Hazard inducer(s): Zinc borate

IMDG

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.
Class: 9
Packing group: III
UN no. UN 3077
Primary risk: 9
Remarks Shipment permitted
Hazard inducer(s): Zinc borate
EmS : F-A S-F

15. Regulatory information**Labelling in accordance with EC-Directives**
hazard warning labelling compulsory

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N Dangerous for the environment

Hazardous component(s) to be indicated on label

Zinc borate

R phrases

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases60 This material and its container must be disposed of as hazardous waste.
61 Avoid release to the environment. Refer to special instructions/Safety data sheets.**16. Other information****Text of the R-phrases which are allocated to the ingredients/components mentioned in section 2 of this Safety Data Sheet.**

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The data are based on the current state of our knowledge, and are intended to describe the product with regard to the requirements of safety. The data should not be taken to imply any guarantee of a particular or general specification. It is the responsibility of the user of the product to ensure to his satisfaction that the product is suitable for the intended purpose and method of use. We do not accept responsibility for any harm caused by the use of this information. In all cases, our general conditions of sale apply.