

Safety Data Sheet in accordance with Regulation (EU)**No.453/2010****EXOLIT OP 1230**

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Substance key: 000000111039
Version : 2 - 10 / EURevision Date: 08.04.2011
Date of printing : 15.08.2011**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Trade name****EXOLIT OP 1230****Material number:** 185108**REACH - Registration number** 01-0000017463-71-0000
according to article 20(3):**1.2. Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**Industry sector : Plastic processing industry.
Type of use : flameproofing agents**1.3. Details of the supplier of the safety data sheet****Identification of the company**Clariant Produkte (Deutschland) GmbH
Chemiepark Knapsack
50351 Hürth
Telephone no. : +49 2233 480**Information about the substance/mixture**Division Pigments & Additives
+49(0)2233-48-6152
e-mail: PA.PSKNAPSACK@CLARIANT.COM**1.4. Emergency telephone number**

00800-5121 5121 (24 h)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according EC Directive (67/548/EEC or 1999/45/EC, as amended)**

The product is not classified as dangerous according to EC directives/the relevant national laws.

2.2. Label elements**Labelling according CLP regulation (Regulation (EC) No. 1272/2008, as amended)**

The product does not require classification and labelling as hazardous according to CLP/GHS.

2.3. Other hazards

The product may cause dust explosions.

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Organophosphorus salt

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove clothing where dust collected.

After inhalation

Remove the casualty into fresh air and keep him calm.

Ensure supply of fresh air.

Take medical treatment.

After contact with skin

In case of contact with skin wash off immediately with soap and water

After contact with eyes

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice

After ingestion

Get medical treatment

4.2. Most important symptoms and effects, both acute and delayed**Symptoms**

No significant symptom known, only those caused by the physical form of the material.

Hazards

No hazards known at this time.

4.3. Indication of any immediate medical attention and special treatment needed**Treatment**

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

extinguishing measures to suit surroundings

Extinguishing media that must not be used for safety reasons

gaseous extinguishing media

5.2. Special hazards arising from the substance or mixture

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In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO)
Carbon dioxide (CO₂)
Phosphorus oxides (eg Phosphorus pentoxide)

5.3. Advice for firefighters**Special protective equipment for firefighting**

Use self-contained breathing apparatus

Further information

Fire residues must be disposed of in a proper manner

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Do not inhale dust.
Avoid contact with skin and eyes.
Wear personal protective equipment. Unprotected persons must be kept away.

6.2. Environmental precautions

Do not allow to enter drains
Retain and dispose of contaminated wash water.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. Rinse away rest with water.
Avoid raising dust

6.4. Reference to other sections**Additional information**

None

SECTION 7: Handling and storage**7.1. Precautions for safe handling****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

Dust can form an explosive mixture with air.
Keep away from sources of ignition
Avoid formation of dust
Avoid deposition of dust
In areas with dust explosion hazard: maximum surface temperature of 310 °C (according DIN EN 50281-2-1).

Dust explosion class : ST1 Capable of dust explosion

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Observe TRGS 514Ü (storage compatibility)

Further information on storage conditions

Keep container tightly closed in a well-ventilated place

Storage stability

The product must not be stored above 100 °C.

7.3. Specific end use(s)

No further recommendations.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limit values**

Exposure limit values are not available.

DNEL/DMEL values

DNEL/DMEL values are not available.

PNEC values

PNEC values are not available.

8.2. Exposure controls**General protective measures**Do not inhale dust
Avoid contact with skin
Avoid contact with eyes**Hygiene measures**Do not eat or drink during work time.
Do not smoke during work time.
Clean skin thoroughly after work; apply skin cream.**Respiratory protection :** Dust mask**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 :** protective clothing**SECTION 9: Physical and chemical properties**

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9.1. Information on basic physical and chemical properties

Form :	Powder
Particle size :	not available
Colour :	white
Odour :	not specified
Odour threshold :	Not applicable
pH value :	approx. 5 (20 °C, 10 g/l) Source : Testing Clariant Suspension in water
Decomposition point :	from 300 °C Method : DTA Source : Testing Clariant
Flash point :	Not applicable
Minimum ignition energy :	> 100 mJ 20 °C Method : Mike 3 apparatus
Vapour pressure :	Not applicable
Solubility in water :	= 2 g/l
Octanol/water partition coefficient (log Pow) :	Not applicable
Ignition temperature :	Not applicable
Self-ignition temperature :	> 400 °C Method : 92/69/EEC, A.16
Self-ignition temperature :	> 260 °C Method : VDI 2263 (Grewer)
Self-ignition temperature :	470 °C Method : DIN EN 50281-2-1 Dust cloud ignition at a hot surface.
Thermal decomposition :	> 300 °C (Heating rate : 5 K/min) Source : Testing Clariant Decomposes before melting.
Viscosity (dynamic) :	Not applicable
Explosive properties :	Explosive according to EU supply regulations : Not known

9.2. Other information

Density :	1,35 g/cm ³ (23 °C) Method : 92/69/EEC, A.3. Source : Testing Clariant
Bulk density :	400 - 600 kg/m ³ (20 °C) Source : Testing Clariant

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Impact sensitivity : Not impact-sensitive

SECTION 10: Stability and reactivity

10.1. Reactivity

See section 10.3. "Possibility of hazardous reactions"

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

No hazardous reactions when stored and handled according to prescribed instructions.
Risk of dust explosions.

10.4. Conditions to avoid

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

10.5. Incompatible materials

none

10.6. Hazardous decomposition products

No decomposition if used as intended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity :	LD50 > 2.000 mg/kg (rat) Method : OECD 401 Source : Testing HMR
Acute dermal toxicity :	LD50 > 2.000 mg/kg (rat (female)) Method : OECD 402 Source : Testing HMR
Irritant effect on skin :	non-irritant (4 h, rabbit) Method : OECD 404 Source : Aventis Pharma Deutschland GmbH, ProTox
Irritant effect on eyes :	slight irritant effect - does not require labelling (rabbit eye) Method : OECD 405 Source : Testing HMR
Sensitization :	non-sensitizing (Guinea pig) Method : OECD 406 Source : Testing HMR

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Repeated dose toxicity:	Sub-acute oral toxicity Route of application: gavage NOAEL: > 1.000 mg/kg (29, Rats (male/female)) Method : OECD Guide-line 407 Source : Testing HMR
Genetic toxicity in vivo :	Micronucleus assay mouse (male/female) oral unspecified Method : OECD Guide-line 474 Negative
Assesment of mutagenicity :	Not mutagenic in Ames Test. Source : Testing HMR No experimental information on genotoxicity in vitro available. Source : Testing HMR
Assessment of toxicity to reproduction :	No reproductive toxicity to be expected.
Specific target organ toxicity (STOT) - single exposure :	Remarks : not available
Specific target organ toxicity (STOT) - repeated exposure :	Remarks : not available
Aspiration hazard :	Data for aspiration toxicity are not available.

SECTION 12: Ecological information**12.1. Toxicity**

Fish toxicity :	LC50 > 100 mg/l (96 h, zebra fish) Method : OECD 203 Source : Testing HMR
Daphnia toxicity :	EC50 > 100 mg/l (48 h, Daphnia magna) Method : OECD 202 Source : Testing HMR
Algae toxicity :	NOEC > 180 mg/l (Scenedesmus subspicatus) Method : 92/69/EEC, C.3
Bacteria toxicity :	EC50 = 1.968 mg/l (3 h, activated sludge) Method : OECD 209
Toxicity to soil-dwelling organisms :	not available
Toxicity to terrestrial organisms :	not available
Toxicity to other environmentally relevant organisms :	not available
Sediment toxicity :	not available

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Biodegradability : not degradable
Method : OECD 302B / ISO 9888 / EEC 88/302C
Data refer to the organic component.

12.3. Bioaccumulative potential

Bioaccumulation: not available

12.4. Mobility in soil

**Transport and distribution
between environmental
compartments :** adsorption
Method : OECD 121

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects**Additional ecotoxicological remarks**

Do not allow to enter soil, waterways or waste water

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Product**

In accordance with regulations for special waste, must be taken, after pretreatment, to an authorised special waste incineration plant

Uncleaned packaging

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

SECTION 14: Transport information**Section 14.1. to 14.5.**

ADR	not restricted
ADNR	not restricted
RID	not restricted
IATA	not restricted
IMDG	not restricted

14.6. Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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No transport as bulk according IBC - Code.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Other regulations**

VDI 2263 "Dust fires and explosions; Danger, Evaluation, Protection measures"

15.2. Chemical safety assessment

No Chemical Safety Assessment (CSA) is yet available for the substance, or for the component substances, contained in this product.

SECTION 16: Other information

Decimal notation: "thousands" places are identified with a dot (for example, "2.000 mg/kg" means "two thousand mg/kg"). Decimal places are identified with a comma (for example, "1,35 g/cm³" means "one point three five g/cm³").

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