

Material Safety Data Sheet

According to 91/155 EC



Printing date 09.01.2001

Reviewed on 19.12.2000

* 1 Identification of substance

. Product details

. Trade name **MIKROPHOS White**
Artikelnummer: 57005

. Article number: 57005

. Manufacturer/Supplier:

BK Giulini Chemie GmbH & Co. OHG
Works Ludwigshafen, Giulinistraße 2
D-67065 Ludwigshafen

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. Information:

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. Emergency information:

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Works Ludwigshafen Phone +49 621 / 5709-01

2 Composition/Data on components:

. Chemical characterization:

. CAS No. Designation: 85049-55-4 Sodium-calcium-polyphosphate

. Identification number(s):

. EINECS Number: 285-225-4

. Chemical characterization

. Description: Glassy polyphosphate in pieces

3 Hazards identification

. Hazard designation: void

. Information pertaining to particular dangers for man and environment void

. Classification system

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

4 First aid measures

. General information No special measures required.

. After inhalation : Supply fresh air; consult doctor in case of symptoms.

. After skin contact :

Rinse with warm water.
The product is not skin irritating.

. After eye contact :

Rinse opened eye for several minutes under running water. Then consult doctor.

. After swallowing :

Rinse out mouth and then drink plenty of water.
In case of persistent symptoms consult doctor.

5 Fire fighting measures

. Suitable extinguishing agents

Use fire fighting measures that suit the environment.
CO₂, extinguishing powder or water jet. Fight larger fires with foam.

. Protective equipment: No special measures required.

6 Accidental release measures

. Person-related safety precautions: Wear protective clothing.

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- . **Measures for environmental protection:**
 Do not allow to enter drainage system, surface or ground water.
- . **Measures for cleaning/collecting:** Collect mechanically.
- . **Additional information:** No dangerous materials are released.

7 Handling and storage

- . **Handling**
- . **Information for safe handling:**
 No special precautions necessary if used correctly.
 Prevent formation of dust.
- . **Information about protection against explosions and fires:**
 The product is not flammable
 No special measures required.
- . **Storage**
- . **Requirements to be met by storerooms and containers:** No special requirements.
- . **Information about storage in one common storage facility:** Not required.
- . **Further information about storage conditions:**
 Store in cool, dry conditions in well sealed containers.
- . **Storage class**
- . **Class according to regulation on inflammable liquids:** Void

8 Exposure controls and personal protection

- . **Additional information about design of technical systems:**
 No further data; see item 7.
- . **Components with critical values that require monitoring at the workplace:**
 Not required.
- .

CAS No.	Designation of material	%	Type	Value	Unit
	General dust exposure limit, measured as alveolic part		German MAK 1997	1,5	mg/m ³
- . **Additional information:**
 The lists that were valid during compilation were used as a basis.
- . **Personal protective equipment**
- . **General protective and hygienic measures**
 The usual precautionary measures should be adhered to in handling the chemicals.
 Wash hands during breaks and at the end of the work.
 Avoid contact with the eyes and skin.
- . **Breathing equipment:**
 Use breathing protection in case of insufficient ventilation.
 Dustmask
- . **Protection of hands:** Protective gloves.
- . **Eye protection:** Safety glasses

* 9 Physical and chemical properties:

- . **Form:** particulate
- . **Colour:** Transparent
- . **Smell:** Odourless
- . **Change in condition**
 - Melting point/Melting range:** ca. 900°C
 - Boiling point/Boiling range:** Not determined
- . **Flash point:** Not applicable
- . **Inflammability (solid, gaseous)** Product is not inflammable.

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- . **Danger of explosion:** Product is not explosive.
- . **Density**
- . **Settled apparent density at 20°C** ca. 1300 kg/m³
- . **Solubility in / Miscibility with Water:** Slightly soluble
- . **pH-value (10 g/l) at 20°C:** ca. 6.6

10 Stability and reactivity

- . **Thermal decomposition / conditions to be avoided:**
 No decomposition if used according to specifications.
- . **Dangerous reactions** No dangerous reactions known
- . **Dangerous composition products:** No dangerous decomposition products known

11 Toxicological information

- . **Acute toxicity:**
- . **LD/LC50 values that are relevant for classification:**
- . **Components**

		Type	Value	Species
Product	LD50:	oral	> 2000 mg/kg	rat
- . **Primary irritant effect:**
- . **on the skin:** No irritant effect.
- . **on the eye:** No irritant effect.
- . **Sensitization:** No sensitizing effect known.
- . **Additional toxicological information:**
 In our experience and according to the information provided to us, the product does not have any harmful effects when used and handled according to specification.
 The material is not subject to classification according to EC lists in the last version.

* 12 Ecological information:

- . **Information about elimination (persistence and degradability):**
- . **Other information:**
 Inorganic salts are basically not biodegradable.
 Good elimination possible
 elimination by flocculation or adsorption by sludge
- . **Behaviour in environmental systems:**
- . **Components:**
 Product should not get in higher quantities into waste water because it may act as a plant nutrient and precipitate heavy metals.
- . **Ecotoxicological effects:**
- . **Acquatic toxicity:**
- . **Type of test Effective concentration Method Assessment**
- . Fish toxicity LC0 : > 2500 mg/l (Goldorfen, 96 h)
- . Bacterial toxicity EC50: > 1000 mg/l (OECD 209)
- . **Other information:** No COD, no BOD, no AOX
- . **General notes:**
 Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

* 13 Disposal considerations

- . **Product:**
- . **Recommendation** Smaller quantities can be disposed with household garbage.

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. European waste catalogue

06 03 07 phosphates and related solid salts

. Uncleaned packaging:**. Recommendation:** Disposal must be made according to official regulations.**. Recommended cleaning agent:** Water, if necessary with cleaning agent.**14 Transport information****. Transport/Additional information:**

Not dangerous according to the above regulations.

*** 15 Regulatory information****. Designation according to EC guidelines:**

The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

Observe the normal safety regulations when handling chemicals

. National regulations**. Classification according to VbF: Void****. Water hazard class:**Water hazard class 1: slightly hazardous for water
(German Regulation)**. Other regulations, limitations and prohibitive regulations**The general dust exposure limit of 1,5 mg/m³, measured as alveolic part has to be observed (German MAK 1997, TRGS 900).**16 Other information:**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

. Department issuing data specification sheet:

Occupational health and safety department

. Contact: Dr. Roland Gitzing