

**Material Safety Data Sheet**  
According to 91/155 EEC(2001/58/EC)

Printing date 29.06.2006

Reviewed on 29.06.2006

**1 Identification of substance**. **Product details**. **Trade name**Artikelnummer: 51030. **Article number:** 51030. **Application of the substance / the preparation**

Anticorrosion additive

Special phosphate

Water treatment

Water conditioner

. **Manufacturer/Supplier:**

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. **Information:**

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. **Emergency information:**

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**\* 2 Composition/Data on components:**. **Chemical characterization:**. **CAS No. Designation:**

23209-59-8 Sodium calcium polyphosphate glas

. **Identification number(s):**. **EINECS Number:** 245-490-9. **Chemical characterization**. **Description:** Glassy polyphosphate in ball form**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 (approx. 500 ml).

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In case of persistent symptoms consult doctor.

**5 Fire fighting measures**

- . **Suitable extinguishing agents**  
Use fire fighting measures that suit the environment.  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with foam.
- . **Special hazards caused by the material, its products of combustion or flue gases:**  
None
- . **Protective equipment:** No special measures required.

**6 Accidental release measures**

- . **Person-related safety precautions:**  
Wear protective clothing.  
Avoid causing dust.
- . **Measures for environmental protection:**  
Do not allow concentrated solutions 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.

**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 TRGS 900 (2006)	3	mg/m <sup>3</sup>
- . **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.

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- . **Breathing equipment:**  
Use breathing protection in case of insufficient ventilation.  
Dust mask according to DIN EN 140 or 149 (FFP1 or FFP2)
- . **Protection of hands:** Not required.
- . **Material of gloves** Not applicable
- . **Penetration time of glove material** Not applicable
- . **Eye protection:** Safety glasses (DIN 58211, EN 166)
- . **Body protection:** Light weight protective clothing

## 9 Physical and chemical properties:

### . General Information

Form:	Solid.
Colour:	Transparent
Smell:	Odourless

### . Change in condition

Melting point/Melting range:	ca. 800°C
Boiling point/Boiling range:	Not determined

- . **Flash point:** Not applicable
- . **Inflammability (solid, gaseous)** Product is not inflammable.
- . **Ignition temperature:** Not applicable
- . **Decomposition temperature:** Not determined
- . **Danger of explosion:** Product is not explosive.
- . **Critical values for explosion:**
  - Oxidizing properties None
- . **Density**
- . **Settled apparent density at 20°C** ca. 1300 kg/m<sup>3</sup>
- . **Solubility in / Miscibility with Water:** Slightly soluble
- . **pH-value (10 g/l) at 20°C:** ca. 7
- . **Segregation coefficient (n-octanol/water):** ca. -2 log POW

## 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**

	LD50:	Type	Value	Species
Product		oral	> 2000 mg/kg	rat

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- . **Primary irritant effect:**
- . **on the skin:** No irritant effect.
- . **on the eye:** Moderate irritation
- . **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.  
Easy elimination possible 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.
- . **Mobility and bioaccumulation potential:**  
Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
- . **Ecotoxicological effects:**
- . **Aquatic toxicity:**
- . **Type of test Effective concentration Method Assessment**  
Fish toxicity LC0 : > 1600 mg/l (golden orfey, 48 h)  
Bacterial toxicity EC50: > 1000 mg/l (OECD 209)
- . **Other information:**  
No COD, no BOD, no AOX  
No VOC according to EC-directive 1999/13/EC
- . **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.  
Can be deposited with household garbage after consulting with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.
- . **European waste catalogue**  
06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
- . **Uncleaned packaging:**
- . **Recommendation:**  
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.  
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

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Dispose of packaging according to regulations on the disposal of packagings.

- . **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****. Decree to be applied in case of technical fault:**

Major accidents hazards regulation, annex:

not applicable (German regulation)

**. Water hazard class:** WGK 1 : low water hazard risk (German regulation)**. Other regulations, limitations and prohibitive regulations**

ZH 1/134 "Atenschutz-Merkblatt" (German regulation)

The general dust exposure limit of 3 mg/m<sup>3</sup>, measured as alveolic part has to be observed (German TRGS 900, 2006).**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**. \* Data compared to the previous version altered.**