

Safety Data Sheet

according to 1907/2006/EC, Article 31 (REACH)

Printing date 15.09.2010

Revision: 15.09.2010

1 Identification of substance

. **Product details**

. Trade name **Metaqua 8160**
 Artikelnummer: 48833

. **Article number:** 48833

. **Application of the substance / the preparation**

Formulation additive
 Water treatment
 Water conditioner

. **Manufacturer/Supplier:**

BK Giulini GmbH
 Works Ludwigshafen, Giulinistraße 2
 D-67065 Ludwigshafen

www.bk-giulini.com

Tel: 0621 5709-01

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. **Information:**

Business Unit BKG Water Solutions
 Works Ladenburg Tel.: +49 (0) 6203 / 77-172
 Works Ludwigshafen Tel.: +49 (0) 621 / 5709-523
 R.Gitzing@BK-Giulini.com

. **Emergency information:**

Works Ladenburg Tel.: +49 (0) 6203 / 77-112
 Works Ludwigshafen Tel.: +49 (0) 621 / 5709-112

2 Hazards identification

. **Hazard designation:**



Xi Irritant

. **Information pertaining to particular dangers for man and environment**

R 37/38 Irritating to respiratory system and skin.
 R 41 Risk of serious damage to eyes.

. **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.

. **GHS label elements**



Danger

H318 - Causes serious eye damage.



Warning

H335 - May cause respiratory irritation.

Warning

H315 - Causes skin irritation.

. **Prevention:**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

(Contd. on page 2)

Safety Data Sheet

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Printing date 15.09.2010

Revision: 15.09.2010

Trade name Metaqua 8160
 Artikelnummer: 48833

(Contd. of page 1)

. Response:

- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.

3 Composition/information on ingredients

. Chemical characterization:

. CAS No. Designation:

Void

. Identification number(s):

. EINECS Number: Void

. Chemical characterization

. Description: Blend of silicates and phosphates.

. Dangerous components:

CAS: 1344-09-8	Silicic acid, sodium salt	50-100%
EINECS: 215-687-4	Xi; R 37/38-41	
	Danger: corrosion 3.3/1	
	Warning: exclamation mark 3.8/3; 3.2/2	

4 First aid measures

- . General information** Instantly remove any clothing soiled by the product.
- . After inhalation :** Supply fresh air; consult doctor in case of symptoms.
- . After skin contact :**
 Wash with water and soap.
 If skin irritation continues, consult a doctor.
- . 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).
 Seek medical treatment.

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.
- . For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- . Protective equipment:** No special measures required.

6 Accidental release measures

- . Person-related safety precautions:**
 Wear protective clothing.
 Avoid causing dust.

(Contd. on page 3)

Safety Data Sheet

according to 1907/2006/EC, Article 31 (REACH)

Printing date 15.09.2010

Revision: 15.09.2010

Trade name Metaqua 8160
 Artikelnummer: 48833

(Contd. of page 2)

. Measures for environmental protection:

Do not allow concentrated solutions to enter drainage system, surface or ground water.

. Measures for cleaning/collecting:

Collect mechanically.
 Dispose of contaminated material as waste according to item 13.

* 7 Handling and storage

. Handling

. Information for safe handling:

Thorough dedusting.
 Provide suction extractors if dust is formed.

. Information about protection against explosions and fires:

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:

CAS No.	Designation of material	%	Type	Value	Unit
	General dust exposure limit, measured as alveolic part		German TRGS 900 (2009)	3	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.
 Dust mask according to DIN EN 140 or 149 (FFP1 or FFP2)

. Protection of hands:

Protective gloves:
 In case of spray contact at least protection index 2 recommended, according to more than 30 min. penetration time (EN 374).
 Layer thickness of gloves at least: 0.4 mm
 In case of prolonged and intensive contact protection index 6 recommended, according to more than 480 min. penetration time (EN 374).
 Layer thickness of gloves at least: 0.7 mm

. Material of gloves

Butyl rubber, BR
 Nitrile rubber, NBR
 Natural rubber, NR
 Fluorocarbon rubber (Viton)

(Contd. on page 4)

Safety Data Sheet

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Printing date 15.09.2010

Revision: 15.09.2010

Trade name Metaqua 8160
 Artikelnummer: 48833

(Contd. of page 3)

Chloroprene rubber, CR
 Neoprene gloves

. **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- . **Eye protection:** Safety glasses (DIN 58211, EN 166)
- . **Body protection:** Light weight protective clothing

9 Physical and chemical properties:

. **General Information**

Form:	Powder
Colour:	White
Smell:	Light Pungent

. **Change in condition**

Boiling point/Boiling range:	Not applicable
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Flash point:	Not applicable
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Ignition temperature:	Not applicable
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Decomposition temperature:	Not determined
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Danger of explosion:	Product is not explosive.
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. **Critical values for explosion:**

Oxidizing properties	None
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. **Density**

Settled apparent density at 20°C	ca. 660 kg/m ³
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. **Solubility in / Miscibility with**

Water:	Soluble
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pH-value (10 g/l) at 20°C:	ca. 11.7
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Segregation coefficient (n-octanol/ water):	ca. -2 log POW
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10 Stability and reactivity

. **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

. **Materials to be avoided:**

. **Dangerous reactions** Exothermic reaction with acids

. **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	oral	> 10000 mg/kg	rat

. **Primary irritant effect:**

. **on the skin:** Irritant for skin and mucous membranes.

(Contd. on page 5)

Safety Data Sheet

according to 1907/2006/EC, Article 31 (REACH)

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Revision: 15.09.2010

Trade name Metaqua 8160
 Artikelnummer: 48833

(Contd. of page 4)

- . **on the eye:** Strong irritant with the danger of severe eye injury.
- . **Sensitization:** No sensitizing effect known.
- . **Additional toxicological information:**
 The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
 Irritant

12 Ecological information:

- . **Information about elimination (persistence and degradability):**
- . **Other information:**
 Easy elimination possible by flocculation or adsorption by sludge.
 Inorganic salts are basically not biodegradable.
- . **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:**
- . **Acquatic toxicity:** Acute fish toxicity: LC50: > 100 mg/l
- . **Other information:**
 No COD, no BOD, no AOX
 No VOC according to EC-directive 1999/13/EC
- . **Additional ecological information:**
- . **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**
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
 Must be specially treated in adherence to official 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.
 Dispose of packaging according to regulations on the disposal of packagings.
- . **Recommended cleaning agent:** Water, if necessary with cleaning agent.

(Contd. on page 6)

Safety Data Sheet

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Printing date 15.09.2010

Revision: 15.09.2010

Trade name Metaqua 8160
Artikelnummer: 48833

(Contd. of page 5)

14 Transport information

- . **Transport/Additional information:**
Not dangerous according to the above regulations.

15 Regulatory information

- . **Designation according to EC guidelines:**
The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)
Observe the normal safety regulations when handling chemicals
- . **Code letter and hazard designation of product:**
Xi Irritant
- . **Hazard-determining components of labelling:**
Silicic acid, sodium salt
- . **Risk phrases:**
37/38 Irritating to respiratory system and skin.
41 Risk of serious damage to eyes.
- . **Safety phrases:**
22 Do not breathe dust.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37/39 Wear suitable gloves and eye/face protection.
- . **National regulations**
- . **Information about limitation of use:**
Employment restrictions concerning young persons must be observed.
- . **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**
BG-information M004 "Irritant/corrosive substances" (German regulation)
The general dust exposure limit of 3 mg/m³, 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.

- . **Relevant R-phrases**
37/38 Irritating to respiratory system and skin.
41 Risk of serious damage to eyes.
- . **Department issuing data specification sheet:**
Occupational health and safety department
- . **Contact:**
Dr. Roland Gitzing
R.Gitzing@BK-Giulini.com

(Contd. on page 7)

Safety Data Sheet

according to 1907/2006/EC, Article 31 (REACH)

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Revision: 15.09.2010

Trade name Metaqua 8160
Artikelnummer: 48833

(Contd. of page 6)

. **Abbreviations and acronyms:**

GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

. *** Data compared to the previous version altered.**

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