

Safety data sheet

acc. to 1907/2006/EC, Article 31 (REACH), 1272/2008/EC (CLP)

Printing date 15.06.2016

Version number 2

Revision: 15.06.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name **BEKAPLUS FS**
Article number: **BK7096**

Article number: BK7096

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture

Formulation additive
Special phosphate
Food additives

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

BK Giulini GmbH
Member of ICL Group
Works Ladenburg, Dr.A.Reimann-Str.2
D-68526 Ladenburg

www.icl-pp.com
Tel: +49 6203 / 77-0
Fax: +49 6203 / 77-7256

Information:

Business Unit Food Specialties
Product information: Phone: + 49 6203 77 7148
Contact MSDS: MSDS@icl-group.com

1.4 Emergency telephone number: Works Ladenburg Phone +49 6203 / 77-112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not to be classified according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: not applicable

vPvB: not applicable

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description:

Mixture consisting of the following components:

Polyphosphates (E 452)

orthophosphates (E 339)

Dangerous components:

CAS: 7601-54-9 Trisodium monophosphate 2.5- <10%

EINECS: 231-509-8 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335

Reg.nr.: 01-2119489800-32-0003

SVHC No

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. **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

. 4.1 Description of first aid measures

. **General information** No special measures required.

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

. **After skin contact** :

Wash with water and soap.

In case of persistent symptoms consult doctor.

. **After eye contact** : Rinse opened eye for 15 minutes under running water. If symptoms persist, consult doctor.

. **After swallowing** :

Rinse out mouth and then drink plenty of water (approx. 500 ml).

In case of persistent symptoms consult doctor.

. **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

. **5.1 Extinguishing media**

. **Suitable extinguishing agents**

Use fire fighting measures that suit the environment.

CO₂, extinguishing powder or water jet. Fight larger fires with foam.

. **5.2 Special hazards arising from the substance or mixture**

Fire can cause release of :

Phosphorus oxides (P_xO_y)

. **5.3 Advice for firefighters**

. **Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

. **6.1 Personal precautions, protective equipment and emergency procedures**

Avoid causing dust.

Wear protective clothing.

Product forms slippery surface when combined with water.

. **6.2 Environmental precautions:**

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

. **6.3 Methods and material for containment and cleaning up:** Collect mechanically.

. **6.4 Reference to other sections**

See section 7 for information on safe handling

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

. **7.1 Precautions for safe handling**

No special precautions necessary if used correctly.

Prevent formation of dust.

Provide suction extractors if dust is formed.

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. **Information about protection against explosions and fires:**

The product is not flammable
No special measures required.

. **7.2 Conditions for safe storage, including any incompatibilities**

. **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.

. **7.3 Specific end use(s)** No further relevant information available.

* SECTION 8: Exposure controls/personal protection

. **Additional information about design of technical systems:** No further data; see section 7.

. **8.1 Control parameters**

. **Components with critical values that require monitoring at the workplace:**

. **DNELs**

7601-54-9 Trisodium monophosphate

Inhalative Worker 4.07 mg/m³ (long-term exposure, systemic effects)

General population 3.04 mg/m³ (long-term exposure, systemic effects)

. **PNECs**

7601-54-9 Trisodium monophosphate

Water 0.05 mg/L (fresh water)

0.005 mg/L (sea water)

0.5 mg/L (intermittent release)

Sewage treatment 50 mg/L (sewage-treatment plant)

. **CAS No. Designation of material % Type Value Unit**

General dust exposure limit, German TRGS 900 (2015) 1,25 mg/m³
measured as alveolic part

. **Additional information:** The lists that were valid during compilation were used as a basis.

. **8.2 Exposure controls**

. **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:** 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

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

Natural rubber, NR

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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

SECTION 9: Physical and chemical properties

. **9.1 Information on basic physical and chemical properties**

. **General Information**

. **Appearance:**

Form: Powder

Colour: White

. Smell: Odourless

. Odour threshold: not applicable

. pH-value (10 g/l) at 20 °C: ca. 7

. **Change in condition**

Melting point/Melting range: ca. 600 °C

Boiling point/Boiling range: Not determined

. Flash point: not applicable

. Inflammability (solid, gaseous) not applicable

. Ignition temperature: not applicable

. Decomposition temperature: not determined

. Danger of explosion: Product is not explosive.

. **Critical values for explosion:**

Lower: not applicable

Upper: not applicable

Dust explosion class: not determined

. Oxidising properties none

. Steam pressure: not applicable

. **Density**

Settled apparent density at 20 °C ca. 1000 kg/m³

Evaporation rate not determined

. **Solubility in / Miscibility with**

Water: Readily soluble

. Partition coefficient (n-octanol/water): ca. -2 log POW

. **Viscosity:**

dynamic: not applicable

kinematic: not applicable

. **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

. **10.1 Reactivity** No further relevant information available.

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- . **10.2 Chemical stability**
- . **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- . **10.3 Possibility of hazardous reactions** No dangerous reactions known
- . **10.4 Conditions to avoid** No further relevant information available.
- . **10.5 Incompatible materials:** No further relevant information available.
- . **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

- . **11.1 Information on toxicological effects**
- . **Acute toxicity** Based on available data, the classification criteria are not met.
- . **Primary irritant effect:**
- . **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- . **Serious eye damage/irritation** Moderate irritation
- . **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- . **Repeated dose toxicity** No further relevant information available.
- . **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** No further relevant information available.
- . **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- . **Carcinogenicity** Based on available data, the classification criteria are not met.
- . **Reproductive toxicity** Based on available data, the classification criteria are not met.
- . **STOT-single exposure** Based on available data, the classification criteria are not met.
- . **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- . **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- . **12.1 Toxicity**
- . **Aquatic toxicity:** No further relevant information available.
- . **12.2 Persistence and degradability** Inorganic salts are basically not biodegradable.
- . **Other information:** 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.
- . **12.3 Bioaccumulative potential** Does not accumulate in organisms
- . **12.4 Mobility in soil** No further relevant information available.
- . **Ecotoxicological effects:**
- . **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.
- . **12.5 Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.
- . **12.6 Other adverse effects** No further relevant information available.

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SECTION 13: Disposal considerations

. **13.1 Waste treatment methods**

. **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.

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

. **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

. **14.1 UN-Number**

. **ADR,RID,ADN, IMDG, IATA** Void

. **14.2 UN proper shipping name**

. **ADR,RID,ADN, IMDG, IATA** Void

. **14.3 Transport hazard class(es)**

. **ADR,RID,ADN, IMDG, IATA**

. **Class** Void

. **14.4 Packing group**

. **ADR,RID,ADN, IMDG, IATA** Void

. **14.5 Environmental hazards:** Not applicable.

. **14.6 Special precautions for user** Not applicable.

. **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

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

. **UN "Model Regulation":** Void

SECTION 15: Regulatory information

. **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

. **Directive 2012/18/EU**

. **Named dangerous substances - ANNEX I** None of the ingredients is listed.

. **National regulations** Void

. **15.2 Chemical safety assessment:**

This Product is not classified as hazardous and therefore there is no obligation for establishing an eSDS by law.

A Chemical Safety Assessment has not been carried out.

SECTION 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.

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. **Relevant phrases**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

. **Department issuing data specification sheet:** Product Safety and Regulatory Affairs

. **Contact:** MSDS@icl-group.com

. **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

. **Sources:** source ECHA: European Chemicals Agency, <http://echa.europa.eu/>

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