

Safety data sheet

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

Printing date 06.12.2018

Version number 3

Revision: 06.12.2018

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

1.1 Product identifier

Trade name **JOHA S 85**

Article number: **BK7057**

Article number: BK7057

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 Food additives

Uses advised against Uses other than those recommended.

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
68526 Ladenburg
Germany

www.icl-group.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

Additional information:

EUH210 Safety data sheet available on request.

Information pertaining to particular dangers for man and environment

Aqueous solutions or powders that become wet produce extremely slippery conditions.

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:

orthophosphates (E 339)

Polyphosphates (E 452)

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		
--------------------------------	--	--

(Contd. on page 2)

Safety data sheet

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

Printing date 06.12.2018

Version number 3

Revision: 06.12.2018

Trade name JOHA S 85

Article number: BK7057

(Contd. of page 1)

- . **SVHC** No
- . **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** 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.
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**
Coughing
Gastric or intestinal trouble
- . **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.
- . **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- . **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:**
Wear self-contained breathing apparatus.
Do not inhale explosion gases or combustion gases.
- . **Additional information**
Aqueous solutions or powders that become wet produce extremely slippery conditions.
Collect contaminated fire fighting water separately. It must not enter drains.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- . **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Avoid causing dust.
Ensure adequate ventilation
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.
Avoid causing dust.
Clean floors dry. Floors get extremely slippery if cleaned with water.

(Contd. on page 3)

Safety data sheet

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

Printing date 06.12.2018

Version number 3

Revision: 06.12.2018

Trade name JOHA S 85

Article number: BK7057

(Contd. of page 2)

Dispose of the material collected according to regulations.

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

Keep containers tightly sealed.

The usual precautionary measures should be adhered to in handling the chemicals.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Provide suction extractors if dust is formed.

Do not inhale the product.

Aqueous solutions or powders that become wet produce extremely slippery conditions.

Information about protection against explosions and fires: The product is not flammable

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and containers:

Unsuitable material for container: aluminium.

Do not use light alloy containers.

Information about storage in one common storage facility: Do not store together with acids.

Further information about storage conditions:

Store in cool, dry conditions in well sealed containers.

This product is hygroscopic.

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: No further relevant information available.

DNELs

7601-54-9 Trisodium monophosphate

Inhalative Worker 17.87 mg/m³ (long-term exposure, systemic effects)General population 7.66 mg/m³ (long-term exposure, systemic effects)

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:

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

(Contd. on page 4)

Safety data sheet

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

Printing date 06.12.2018

Version number 3

Revision: 06.12.2018

Trade name JOHA S 85

Article number: BK7057

(Contd. of page 3)

- 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
 - 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

* 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 at 20 °C: ~8.5

. Change in condition

- | | |
|--|----------------|
| Melting point/freezing point: | not determined |
| Initial boiling point and boiling range: | not applicable |

. Flash point: not applicable

. Inflammability (solid, gaseous) Product is not inflammable.

. Ignition temperature: not applicable

. Decomposition temperature: not determined

. Self-inflammability: Not determined.

. Explosive properties: Product is not explosive.

. Critical values for explosion:

- | | |
|-----------------------|----------------|
| Lower: | not determined |
| Upper: | not determined |
| Dust explosion class: | not determined |

. Oxidising properties none

. Steam pressure: not applicable

. Density

- | | |
|--------------------------|--------------------------------|
| Settled apparent density | ~1,000-1,100 kg/m ³ |
| Evaporation rate | not determined |

(Contd. on page 5)

Safety data sheet

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

Printing date 06.12.2018

Version number 3

Revision: 06.12.2018

Trade name JOHA S 85

Article number: BK7057

(Contd. of page 4)

- . **Solubility in / Miscibility with Water:** Soluble
- . **Partition coefficient: n-octanol/water:** Not determined.
- . **Viscosity:**
 - dynamic:** not applicable
 - kinematic:** not applicable
- . **9.2 Other information** No further relevant information available.

* SECTION 10: Stability and reactivity

- . **10.1 Reactivity** Water solutions of this product may be corrosive to metals.
- . **10.2 Chemical stability**
- . **Thermal decomposition / conditions to be avoided:** Loss of constitutional water on heating
- . **10.3 Possibility of hazardous reactions**
 - Reacts with strong acids
 - Reacts with light alloys
- . **10.4 Conditions to avoid** Exposure to moisture.
- . **10.5 Incompatible materials:**
 - Aluminium and light alloys.
 - Acids
 - alkaloids
 - lead acetate
 - chloral hydrate
 - resorcinol
 - pyrogallol
- . **10.6 Hazardous decomposition products:**
 - Fire can cause release of :
Phosphorus oxides (P_xO_y)
- . **Additional information:** This product is hygroscopic.

* SECTION 11: Toxicological information

- . **11.1 Information on toxicological effects**
- . **Acute toxicity** Based on available data, the classification criteria are not met.
- . **LD/LC50 values that are relevant for classification:**
 - 7601-54-9 Trisodium monophosphate**
 - Oral LD50 >2,000 mg/kg (rat) (OECD 420)
 - Dermal LD50 >2,000 mg/kg (rat) (OECD 402 (READ-Across))
 - Inhalative LC50 (4 h) >0.83 mg/L (rat) (OECD 403 (Read-across))
- . **Primary irritant effect:**
- . **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- . **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- . **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- . **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- . **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.

(Contd. on page 6)

Safety data sheet

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

Printing date 06.12.2018

Version number 3

Revision: 06.12.2018

Trade name JOHA S 85

Article number: BK7057

(Contd. of page 5)

. **Aspiration hazard** Based on available data, the classification criteria are not met.

* SECTION 12: Ecological information

. 12.1 Toxicity

. **Aquatic toxicity:**

7601-54-9 Trisodium monophosphate

LC50 (96 h) >100 mg/L (rainbow trout) (OECD 203 (READ ACROSS))

EC50 (3 h) >1,000 mg/L (activated sludge) (OECD 209 (READ ACROSS))

EC50 (48 h) >100 mg/L (daphnia magna) (OECD 202 (READ ACROSS))

EC50 (72 h) >100 mg/L (desmodesmus subspicatus) (OECD 201 (READ ACROSS))

NOEC 100 mg/L (rainbow trout) (OECD 203, 96h (READ-ACROSS))

>100 mg/L (daphnia magna) (OECD 202, 48h (READ ACROSS))

>100 mg/L (desmodesmus subspicatus) (OECD 201, 72h (READ ACROSS))

1,000 mg/L (activated sludge) (OECD 209, 3h (READ ACROSS))

. **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.

* SECTION 13: Disposal considerations

. **13.1 Waste treatment methods**

. **Recommendation**

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.

Smaller quantities can be disposed with household garbage.

. **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:**

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

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

(Contd. on page 7)

Safety data sheet

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

Printing date 06.12.2018

Version number 3

Revision: 06.12.2018

Trade name JOHA S 85

Article number: BK7057

(Contd. of page 6)

Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

SECTION 14: Transport information

- . 14.1 UN-Number
 - . ADR/RID/ADN, IMDG, IATA
 - . 14.2 UN proper shipping name
 - . ADR/RID/ADN, IMDG, IATA
 - . 14.3 Transport hazard class(es)
 - . ADR/RID/ADN, IMDG, IATA
 - . Class
 - . 14.4 Packing group
 - . ADR/RID/ADN, IMDG, IATA
 - . 14.5 Environmental hazards:
 - . 14.6 Special precautions for user
 - . 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
 - . Transport/Additional information:
 - . UN "Model Regulation":
- Void
- Void
- Void
- Void
- Not applicable.
- Not applicable.
- Not applicable.
- Not dangerous according to the above regulations.
- 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: 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.

- . **Relevant phrases**
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- . **Department issuing data specification sheet:** Hazard Communication
- . **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)
- DNEL: Derived No-Effect Level (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative

(Contd. on page 8)

Safety data sheet

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

Printing date 06.12.2018

Version number 3

Revision: 06.12.2018

Trade name JOHA S 85

Article number: BK7057

(Contd. of page 7)

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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

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