

Safety data sheet

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

Printing date 04.06.2018

Version number 3

Revision: 04.06.2018

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

1.1 Product identifier

Trade name **JOHA S 9 special**
Article number: **BK7020A**

Article number: BK7020A

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

Eye Dam. 1 H318 Causes serious eye damage.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS05

Signal word Danger

Hazard-determining components of labelling:

tetrasodium pyrophosphate

Hazard statements

H318 Causes serious eye damage.

Precautionary statements

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

Information pertaining to particular dangers for man and environment

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

(Contd. on page 2)

Safety data sheet

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

Printing date 04.06.2018

Version number 3

Revision: 04.06.2018

Trade name JOHA S 9 special
Article number: BK7020A

(Contd. of page 1)

- . 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:
Poly- and diphosphate (E 452, E 450)

. Dangerous components:

CAS: 7722-88-5	tetrasodium pyrophosphate	25 - <50%
EINECS: 231-767-1	Eye Dam. 1, H318; Acute Tox. 4, H302	
Reg.nr.: 01-2119489794-17-0001		
CAS: 7758-16-9	Disodium dihydrogendiphosphate	0.1-<2.5%
EINECS: 231-835-0	Eye Irrit. 2, H319	
Reg.nr.: 01-2119489793-19-0001		

. 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.

Call a doctor immediately.

. 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

The most important known symptoms and effects are described in the labelling (see section 2) and / or in section 11.

Further important symptoms and effects are so far not known.

Causes serious eye damage.

. 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 (PxOy)

(Contd. on page 3)

Safety data sheet

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

Printing date 04.06.2018

Version number 3

Revision: 04.06.2018

Trade name JOHA S 9 special
Article number: BK7020A

(Contd. of page 2)

sodium oxide

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

Avoid causing dust.
Ensure adequate ventilation
Product forms slippery surface when combined with water.
Wear protective equipment. Keep unprotected persons away.

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:

Clean floors dry. Floors get extremely slippery if cleaned with water.
Collect mechanically.
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

Aqueous solutions or powders that become wet produce extremely slippery conditions.
Prevent formation of dust.
Provide suction extractors if dust is formed.

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: No special requirements.
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.
Protect from humidity and keep away from water.

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:

7722-88-5 tetrasodium pyrophosphate

WEL (Great Britain) Long-term value: 5 mg/m³

(Contd. on page 4)

Safety data sheet

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

Printing date 04.06.2018

Version number 3

Revision: 04.06.2018

Trade name JOHA S 9 special
Article number: BK7020A

(Contd. of page 3)

. DNELs

7722-88-5 tetrasodium pyrophosphate

Inhalative Worker 44.08 mg/m³ (long-term exposure, systemic effects)

General population 10.87 mg/m³ (long-term exposure, systemic effects)

7758-16-9 Disodium dihydrogendiphosphate

Inhalative Worker 44.08 mg/m³ (long-term exposure, systemic effects)

General population 10.87 mg/m³ (long-term exposure, systemic effects)

. 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:

Required when dusts are generated.

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

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:** Tightly sealed 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: ~9

(Contd. on page 5)

Safety data sheet

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

Printing date 04.06.2018

Version number 3

Revision: 04.06.2018

Trade name JOHA S 9 special
Article number: BK7020A

(Contd. of page 4)

- . **Change in condition**
 - Melting point/freezing point: Not determined
 - Initial boiling point and boiling range: Not determined
- . **Flash point:** not applicable
- . **Inflammability (solid, gaseous)** not applicable
- . **Ignition temperature:** not applicable
- . **Decomposition temperature:** not determined
- . **Self-inflammability:** Not determined.
- . **Explosive properties:** Product is not explosive.
- . **Critical values for explosion:**
 - Lower: not applicable
 - Upper: not applicable
 - Dust explosion class: not applicable
- . **Oxidising properties** none
- . **Steam pressure:** not applicable
- . **Density**
 - Settled apparent density ~1.000 kg/m³
 - Evaporation rate not applicable
- . **Solubility in / Miscibility with Water at 20 °C:** ~ 370 g/l
- . **Partition coefficient: n-octanol/water:** ~ -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.
- . **10.2 Chemical stability**
- . **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- . **10.3 Possibility of hazardous reactions** Strong exothermic reaction with acids
- . **10.4 Conditions to avoid** Exposure to moisture.
- . **10.5 Incompatible materials:** Acids
- . **10.6 Hazardous decomposition products:**
Fire can cause release of :
Phosphorus oxides (P_xO_y)
sodium oxide
- . **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.

(Contd. on page 6)

Safety data sheet

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

Printing date 04.06.2018

Version number 3

Revision: 04.06.2018

Trade name JOHA S 9 special
Article number: BK7020A

(Contd. of page 5)

LD/LC50 values that are relevant for classification:

7722-88-5 tetrasodium pyrophosphate

Oral LD50 1,624 mg/kg (rat) (OECD 425)

Dermal LD50 >2,000 mg/kg (rabbit)

7758-16-9 Disodium dihydrogendiphosphate

Oral LD50 >2,000 mg/kg (rat) (WoE)

Dermal LD50 >2,000 mg/kg (rabbit) (OECD 402)

Inhalative LC50 >0.58 mg/L (rat) (OECD 403)

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Additional toxicological information:

7722-88-5 tetrasodium pyrophosphate

Oral NOAEL 500 mg/kg bw/day (rat) (OECD 408)

NOEL 250 mg/kg bw/d (rat) (OECD 408)

7758-16-9 Disodium dihydrogendiphosphate

Oral NOAEL 500 mg/kg bw/day (rat) (OECD 408 (READ ACROSS))

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:

7722-88-5 tetrasodium pyrophosphate

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

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

EC50 (48 h) (static) >100 mg/L (daphnia magna) (EPA OTS 797.1300 (READ ACROSS))

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

7758-16-9 Disodium dihydrogendiphosphate

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

840 mg/L (Salmo gairdneri)

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

EC50 (48 h) (static) >100 mg/L (daphnia magna) (EPA OTS 797.1300 (READ ACROSS))

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

NOEC 100 mg/L (rainbow trout) (OECD 203 (READ ACROSS))

100 mg/L (daphnia magna) (EPA OTS 797.1300 (READ ACROSS))

100 mg/L (desmodesmus subspicatus) (OECD 201 (READ ACROSS))

(Contd. on page 7)

Safety data sheet

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

Printing date 04.06.2018

Version number 3

Revision: 04.06.2018

Trade name JOHA S 9 special
Article number: BK7020A

(Contd. of page 6)

1,000 mg/L (activated sludge) (OECD 209 (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**
Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
- . **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**
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**
16 03 03* inorganic wastes containing hazardous substances
- . **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.
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 | 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. |

(Contd. on page 8)

Safety data sheet

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

Printing date 04.06.2018

Version number 3

Revision: 04.06.2018

Trade name JOHA S 9 special
Article number: BK7020A

(Contd. of page 7)

- . **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** not determined
- . **Information about limitation of use:** Employment restrictions concerning young persons must be observed.
- . **Other regulations, limitations and prohibitive regulations**
- . **Chemical inventories:**
All ingredients listed in:
Europe (EINECS): yes
Australia (AICS): yes
Canada (DSL): yes
Japan (ENCS): yes
China (IECSC): yes
Korea (KECI): yes
USA (TSCA): yes
Philippines (PICCS): yes
- . **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**
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
- . **Department issuing data specification sheet:** Hazard Communication
- . **Contact:** MSDS@icl-group.com
- . **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
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
Acute Tox. 4: Acute toxicity – Category 4

(Contd. on page 9)

Safety data sheet

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

Printing date 04.06.2018

Version number 3

Revision: 04.06.2018

Trade name JOHA S 9 special

Article number: BK7020A

(Contd. of page 8)

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

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

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