

## Safety data sheet

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

Printing date 17.11.2017

Version number 4

Revision: 17.11.2017

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

#### 1.1 Product identifier

Trade name **JOHA HBS**

Article number: **BK7091**

Article number: BK7091

#### 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  
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

##### 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:

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** 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** 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**

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with foam.

Use fire fighting measures that suit the environment.

. **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<sub>x</sub>O<sub>y</sub>)

#### . 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 clothing.

Product forms slippery surface when combined with water.

Avoid causing dust.

#### . 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.

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

#### . 6.4 Reference to other sections

See section 7 for information on safe handling

See section 8 for information on personal protection equipment.

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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.

#### 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/m<sup>3</sup> (long-term exposure, systemic effects)

General population 3.04 mg/m<sup>3</sup> (long-term exposure, systemic effects)

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

General dust exposure limit, German TRGS 900 (2015) 1,25 mg/m<sup>3</sup>  
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:

Not necessary if room is well-ventilated.  
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

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Fluorocarbon rubber (Viton)  
Nitrile rubber, NBR  
Natural rubber, NR  
Chloroprene rubber, CR

**. 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: Solid

Colour: White

**. Smell:** Odourless

**. Odour threshold:** not applicable

**. pH-value (10 g/l) at 20 °C:** ca. 6.0

**. Change in condition**

Melting point/freezing point: not determined

Initial boiling point and boiling range: not determined

**. Flash point:** not applicable

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

**. Ignition temperature:** not applicable

**. Decomposition temperature:** 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 at 20 °C ca. 1000 kg/m<sup>3</sup>

Evaporation rate not applicable

**. Solubility in / Miscibility with**

Water: Dispersible

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

**. Viscosity:**

dynamic: not applicable

kinematic: not applicable

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. 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 No further relevant information available.
- . 10.4 Conditions to avoid Exposure to moisture.
- . 10.5 Incompatible materials: No further relevant information available.
- . 10.6 Hazardous decomposition products:  
Fire can cause release of :  
Phosphorus oxides (PxOy)

### 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 >2000 mg/kg (rat) (OECD 420)  
Dermal LD50 > 2000 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.
- . 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) >1000 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))
- . 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.

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

### SECTION 14: Transport information

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

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### 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
- . **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:** 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)  
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  
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.**