

Safety data sheet

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

Printing date 03.01.2018

Version number 3

Revision: 03.01.2018

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

1.1 Product identifier

Trade name **JOHA T Neu**

Article number: **BK1161C**

Article number: BK1161C

CAS Number:

7601-54-9

EC number:

231-509-8

Registration number

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (1907/2006/EC), the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

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

Hazard pictograms



GHS07

Signal word Warning

Hazard-determining components of labelling:

Trisodium monophosphate

Hazard statements

H315 Causes skin irritation.

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H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statements

P261 Avoid breathing mist/vapours/spray.

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

P302+P352 IF ON SKIN: Wash with plenty of water.

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

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: not applicable

vPvB: not applicable

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation: Substances

CAS No. Designation:

7601-54-9 Trisodium monophosphate

Identification number(s):

EC number: 231-509-8

SVHC No

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.

Seek medical treatment.

After skin contact :

Immediately wash with soap and water and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact : Rinse opened eye for 15 minutes under running water. Then 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

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

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.

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

Fire can cause release of :

sodium oxide

Phosphorus oxides (P_xO_y)

. **5.3 Advice for firefighters**

. **Protective equipment:**

Wear alkaline resistant protective clothing.

Do not inhale explosion gases or combustion gases.

Wear self-contained breathing apparatus.

. **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

* SECTION 6: Accidental release measures

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

Wear protective clothing.

Avoid causing dust.

Ensure adequate ventilation

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:**

Collect mechanically.

Dispose of the material collected according to regulations.

Dispose of contaminated material as waste according to section 13.

. **6.4 Reference to other sections**

See section 7 for information on safe handling

See section 8 for information on personal protection equipment.

* SECTION 7: Handling and storage

. **7.1 Precautions for safe handling**

Prevent formation of dust.

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

. **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.

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:** Not required.

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. 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)

. 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.

Do not inhale dust / smoke / mist.

Instantly remove any soiled and impregnated garments.

. Breathing equipment:

Dust mask according to DIN EN 140 or 149 (FFP1 or FFP2)

Short term filter device: ABEK-filter

Filter P1.(For solid particles, DIN 3181)

. 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:** Alkaline resistant protective clothing

. **Limitation and supervision of exposure into the environment** Do not empty into drains.

SECTION 9: Physical and chemical properties

. 9.1 Information on basic physical and chemical properties

. General Information

. Appearance:

Form: Agglomerate

Colour: White

. Smell: Odourless

. Odour threshold: not applicable

. pH-value (10 g/l) at 20 °C: ~ 11,9

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- . **Change in condition**
 - Melting point/freezing point: ~ 1600 °C
 - 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 at 20 °C** ~ 2,54 g/cm³
- . **Settled apparent density at 20 °C** ~ 800 kg/m³
- . **Relative density** Not determined.
- . **Vapour density** Not applicable.
- . **Evaporation rate** Not applicable.
- . **Solubility in / Miscibility with Water at 20 °C:** ~ 80 g/l
- . **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** 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**
 - Reacts with light alloys in the presence of moisture to form hydrogen
 - Strong exothermic reaction with acids
 - Reacts violently with water
 - Exothermic reaction
- . **10.4 Conditions to avoid** Exposure to moisture.
- . **10.5 Incompatible materials:** Acids
- . **10.6 Hazardous decomposition products:**
 - Fire can cause release of :
 - sodium oxide
 - Phosphorus oxides (PxOy)

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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

Irritant for mucous membranes.

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Causes serious eye irritation.

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

Additional toxicological information:

Long lasting skin contact may cause degreasing of the skin and may cause therefore dermatitis.

Repeated dose toxicity No further relevant information available.

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

May cause respiratory irritation.

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) >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))

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 No further relevant information available.

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

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- . **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.
- . **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.
- . **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:**
- . **Marine pollutant:** No
- . **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** Substance is not listed.
- . **National regulations**
- . **Information about limitation of use:** Employment restrictions concerning young persons must be observed.

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. 15.2 Chemical safety assessment:

A chemical safety assessment is not required for this substance.
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.

. **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

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.**