

## Safety data sheet

acc. to 1907/2006/EC, Article 31 (REACH), 1272/2008/EC (CLP) and 453/2010/EC

Printing date 14.04.2015

Version number 2

Revision: 14.04.2015

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

#### 1.1 Product identifier

Trade name **POLYRON N**

Article number: **BK1440D**

Article number: BK1440D

CAS Number:

68915-31-1

EC number:

272-808-3

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

Construction chemicals

Formulation additive

Metal surface treatment

Detergents

Water treatment

Water conditioner

#### 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 Advanced Additives

Information on product: Tel. +49 6203 77-7325

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 substance is not to be classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void

Information concerning particular hazards for human and environment:

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

Classification system:

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

#### 2.2 Label elements

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

Hazard pictograms Void

Signal word Void

Hazard statements Void

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### SECTION 3: Composition/information on ingredients

- . **3.1 Chemical characterisation: Substances**
- . **CAS No. Designation:**  
68915-31-1 Polyphosphoric acids, sodium salts
- . **Identification number(s):**
- . **EC number:** 272-808-3
- . **Description:** Powder
- . **SVHC** No

### 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.  
The product is not skin irritating.
- . **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.  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with foam.
- . **5.2 Special hazards arising from the substance or mixture** none
- . **5.3 Advice for firefighters**
- . **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- . **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective clothing.  
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.
- . **6.4 Reference to other sections** No dangerous materials are released.

### SECTION 7: Handling and storage

- . **7.1 Precautions for safe handling**  
No special precautions necessary if used correctly.  
Prevent formation of dust.

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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:** Not required.
- . **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:**  
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  
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

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### 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. 7.8

##### Change in condition

Melting point/Melting range: ca. 620 °C

Boiling point/Boiling range: Not determined

Flash point: Not applicable

Inflammability (solid, gaseous) Product is not inflammable.

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

Oxidising properties: none

Steam pressure: not applicable

##### Density

Settled apparent density at 20 °C: ca. 1200 kg/m<sup>3</sup>

Evaporation rate: not applicable

##### Solubility in / Miscibility with

Water: Readily soluble

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

##### Viscosity:

dynamic: not applicable

9.2 Other information: No further relevant information available.

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

#### 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

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity:

##### LD/LC50 values that are relevant for classification:

#### 68915-31-1 Polyphosphoric acids, sodium salts

Oral LD50 6600 mg/kg (rat)

Dermal LD50 > 7940 mg/kg (rabbit)

Components	Type	Value	Species	Product	LD50:	oral	> 2000 mg/kg	rat

##### Primary irritant effect:

on the skin: No irritant effect.

on the eye: Moderate irritation

Sensitisation No sensitizing effect known.

Repeated dose toxicity No further relevant information available.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) No further relevant information available.

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Aquatic toxicity:

#### 68915-31-1 Polyphosphoric acids, sodium salts

EC50 > 1000 mg/L (bacteria)

EC50 (48 h) > 485 mg/L (daphnia magna)

LC0 (48 h) > 1600 mg/L (golden orfey)

LC50 (96 h) > 1000 mg/L (rainbow trout)

12.2 Persistence and degradability Inorganic salts are basicly 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.

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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, IMDG, IATA** Void

. **14.2 UN proper shipping name**

. **ADR, IMDG, IATA** Void

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

. **ADR, IMDG, IATA**

. **Class** Void

. **14.4 Packing group**

. **ADR, 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 MARPOL73/78 and the IBC Code** Not applicable.

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

. **UN "Model Regulation":** -

### \* SECTION 15: Regulatory information

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

. **National regulations**

. **Other regulations, limitations and prohibitive regulations**

The general dust exposure limit of 1.25 mg/m<sup>3</sup>, measured as alveolic part has to be observed (German TRGS 900, 2015).

. **Chemical inventories:**

Europe (EINECS): yes

Australia (AICS): yes

Canada (DSL): yes

Japan (ENCS): yes

China (IECSC): yes

Korea (KECI): yes

USA (TSCA): yes

Philippines (PICCS): yes

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New Zealand (NZIOCL): 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.

. **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

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

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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

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