



PRODUCT: **SODIUM HEXAMETAPHOSPHATE BK POWDER** (SHMPBKP) REVISION: 2
DATED: 08/05/15 PAGE 1 OF 6

PRODUCT SPECIFICATION

Product Name	Sodium Hexametaphosphate BK Powder
Alternative Name	Sodium Polyphosphate (long-chain), Graham's Salt
Product Grade	Technical Grade
Specification Reference	SHMPBKP/1 (00/06/0043280)

SALES SPECIFICATION

Chemical Formula	(NaPO ₃) _n
Appearance	White Powder
Specification	
P ₂ O ₅ Content	68.0 - 69.0%
pH Value (1%)	6.3 - 6.9
Specification Properties	
Bulk Density	approx. 1200 g/l
Iron	Max. 100 ppm
Use	Metal treatment as a cleaning agent, paints, photography

NOTES

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PRODUCT: **SODIUM HEXAMETAPHOSPHATE BK POWDER** (SHMPBKP) REVISION: 2
DATED: 08/05/15 PAGE 2 OF 6

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product Identifier

Product Name Sodium Hexametaphosphate BK Powder
CAS number 68951-31-1
EC number 272-808-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified applications: construction chemicals, formulation additive, corrosion inhibitors, metal surface treatment, detergents, water treatment, water conditioner, additive for cosmetic or pharmaceutical preparations and food additives.

Uses advised against No uses advised against have been identified

1.3 Details of the supplier of the safety data sheet

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Hazelbottom Road
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Manchester
M8 0GR
Tel: 44(0)161 205 4454
Fax: 44(0) 161 203 4298
Email: msds@tennantsdistribution.com

1.4 Emergency telephone number

Tel: 44(0) 844 3350001 (24 hours)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)

Not classified

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

Label In Accordance With (EC) No. 1272/2008: Void

Hazard pictograms: Void

Signal word: Void

Hazard statements: Void

2.3 Other hazards

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Characterisation Polyphosphoric acids, sodium salts
CAS No. 68915-31-1
EC No. 272-808-3
Description Powder



PRODUCT: **SODIUM HEXAMETAPHOSPHATE BK POWDER** (SHMPBKP) REVISION: 2
DATED: 08/05/15 PAGE 3 OF 6

4. FIRST AID MEASURES
Description of first aid measures
General Advice No special measures required
Inhalation Supply fresh air, consult doctor in case of symptoms
Ingestion Rinse out mouth and then drink plenty of water (approx. 500 ml). In case of persistent symptoms consult doctor
Skin contact Wash with water and soap. The product is not skin irritating
Eye contact Rinse opened eye for 15 minutes under running water. If symptoms persist, consult doctor
Most important symptoms and effects, both acute and delayed No further relevant information available
Indication of any immediate medical attention and special treatment needed No further relevant information available
5. FIRE FIGHTING MEASURES
Extinguishing Media Extinguishing media Use fire extinguishing measures that suit the environment. CO ₂ , extinguishing powder or water jet. Fight larger fires with foam Unsuitable extinguishing media No further information given
Special hazards arising from the substance or mixture None
Advice for fire-fighters No special precautions required Protective equipment for fire-fighters No special measures required
6. ACCIDENTAL RELEASE MEASURES
Personal precautions, protective equipment and emergency procedures Wear protective clothing. Avoid causing dust
Environmental precautions Do not allow concentrated solutions to enter drainage system, surface or ground water
Methods and material for containment and cleaning up Collect mechanically
Reference to other sections For personal protection, see section 8. For waste disposal, see section 13.
7. HANDLING AND STORAGE
7.1 Precautions for safe handling No special precautions necessary if used correctly. Prevent formation of dust Information about protection against explosion and fire The product is not flammable. No special measures required
7.2 Conditions for safe storage, including any incompatibilities Storage: No special requirements Further information about storage conditions: Store in cool, dry conditions in well-sealed containers Specific End Use(s): No further relevant information available
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1 Control parameters Components with critical values that require monitoring at the workplace: Not required Designation of material % Type Value Unit General dust exposure limit, German TRGS 900 (2009) 3 mg/m ³ measured as alveolic part Additional information: The lists that were valid during compilation were used as a basis
8.2 Exposure controls
General Protective and Hygiene Measures The usual precautionary measures should be adhered to in handling the chemicals. Wash hands during breaks and at the end of the work shift. Avoid contact with the eyes and skin



PRODUCT: **SODIUM HEXAMETAPHOSPHATE BK POWDER** (SHMPBKP) REVISION: 2
DATED: 08/05/15 PAGE 4 OF 6

Respiratory Protection

Use breathing protection in case of insufficient ventilation. Dust mask according to DIN EN 140 or 149 (FFP1 or FFP2)

Hand Protection

Not required

Eye protection

Safety glasses (DIN 58211, EN 166)

Body Protection

Light weight protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance White Solid

Odour Odourless

Odour threshold Not applicable

pH-value (10 g/l) at 20°C ca. 6.6

Melting point ca. 620°C

Boiling point not determined

Flash point Not applicable

Inflammability 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 @ 20°C ca. 1200 kg/m³

Evaporation rate Not applicable

Solubility in/miscibility with water Readily soluble

Partition co-efficient (n-octanol water) ca. -2 log POW

Viscosity

Dynamic Not applicable

Other information No further information

10. STABILITY AND REACTIVITY**10.1 Reactivity**

No hazardous reactions when stored and handled according to instructions.

10.2 Chemical stability**Thermal decomposition**

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 Materials to avoid

No further relevant information available

10.6 Hazardous decomposition products

No dangerous decomposition products known



PRODUCT: **SODIUM HEXAMETAPHOSPHATE BK POWDER** (SHMPBKP) REVISION: 2
DATED: 08/05/15 PAGE 5 OF 6

11. TOXICOLOGICAL INFORMATION

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)

Primary irritant effect:

On the skin: No irritant effect.

On the eye: Moderate irritation

Additional toxicological information:

All ingredients are approved food additives according to EC directive 95/2/EC and 2001/5/EC.

Sensitisation No sensitizing effect known.

Repeated dose toxicity No further relevant information available.

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

12. ECOLOGICAL INFORMATION

12.1 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

Other information

Inorganic salts are basically not biodegradable. 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

12.5 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

12.6 Results of PBT and vPvB assessment

PBT: not applicable

vPvB: not applicable

Other adverse effects

No further relevant information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Smaller quantities can be disposed with household waste. Can be deposited with household waste after consulting the operator of the waste disposal facility and the local authorities in accordance with national 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

Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning. Packaging that cannot be cleaned are to be disposed of in the same manner as the product. Dispose of packaging in accordance with national regulations

Recommended cleaning agent

Water, if necessary with cleaning agent

14. TRANSPORT INFORMATION

Not classified as dangerous goods in accordance with ADR/RID/IMDG/IATA



PRODUCT: **SODIUM HEXAMETAPHOSPHATE BK POWDER** (SHMPBKP) REVISION: 2
DATED: 08/05/15 PAGE 6 OF 6

15. REGULATORY INFORMATION

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

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
New Zealand (NZIOCL)	Yes

Chemical safety assessment

A Chemical Safety Assessment has not been carried out

16. OTHER INFORMATION

Source of key data used to compile the data sheet

Supplier information

Modifications from last revision

The Safety Data Sheets have been updated in accordance with current requirements

Date: 08/05/15

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