



SAFETY DATA SHEET

Preparation Date: August 12, 2016

Revision Date: August 12, 2016

Revision Number: 0

1. IDENTIFICATION

PRODUCT IDENTIFIER

Product Name: PHIX MARBLES

OTHER MEANS OF IDENTIFICATION

Chemical Name: Not Applicable

Synonyms: Not Applicable

SUPPLIER IDENTIFICATION

Keytech Water Management

174-3380 Sheridan Drive Amherst, NY 14226

1-800-265-2772

EMERGENCY TELEPHONE NUMBER

Canutec (613) 996-6666

RECOMMENDED USE OF CHEMICAL

Chemical water softening agent

RESTRICTIONS ON USE

Not Applicable

2. HAZARDS IDENTIFICATION

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: Heightened danger of slipping when the product is spilled on floor.

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.

Label elements

Labeling according to Regulation (EC) No 1272 / 2008: Void

Hazard pictograms: Void

Signal word: Void

Other hazards

Results of PBT and vPvB assessment:

PBT: Not applicable

vPvB: Not applicable



3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Substances

CAS No. Designation: 23209-59-8 Sodium calcium polyphosphate glass

Identification number(s):

EC number: 245-490-9

Description: Glassy polyphosphate in ball form

4. FIRST AID MEASURES

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 several 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.

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

Suitable extinguishing agents: Use fire fighting measures that suit the environment. CO₂, extinguishing powder or water jet. Fight larger fires with foam.

Special hazards arising from the substance or mixture: None

Advice for firefighters

Protective equipment: No special measures required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear protective clothing.
Avoid causing dust.
Particular danger of slipping on leaked / spilled product.

Environmental Precautions

Do not allow concentrated solutions to enter drainage system, surface or ground water.



Methods and material for containment and cleaning up

Methods and material for containment and cleaning up: Collect mechanically.

Reference to other sections: No dangerous materials are released.

7. HANDLING AND STORAGE

Precautions for Safe Handling: No special precautions necessary if used correctly. Prevent formation of dust.

Information about protection against explosions and fires: The product is not flammable. No special measures required.

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.

VCI-Storage class: 13

Specific end use(s): No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical systems: No further data; see item 7.

Exposure Guidelines

Components with critical values that require monitoring at the workplace: Not required

CAS No.	Designation of material	%	Type	Value	Unit
	General dust exposure limit, measured as alveoli part		German TRGS 900	(2009)	3 mg/m ³

Additional information: The lists that were valid during compilation were used as a basis.

Appropriate Engineering Controls

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

Personal Protective Equipment

Eye and Face Protection: Safety glasses (DIN 58211, EN 166)

Skin and Body Protection: Light weight protective clothing

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

General Hygiene Considerations: The usual precautionary measures should be adhered to in handling the chemicals. Wash hands during breaks and at end of work. Avoid contact with eyes..



9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Appearance:

Form:	Solid
Color:	Transparent
Smell:	Odorless
Odor threshold:	Not applicable
pH-value (10 g/l) at 20°C:	ca. 7

Change in condition

Melting point / melting range:	ca. 800°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 determined
Oxidizing properties:	None
Steam pressure:	Not applicable
Density	
Settled apparent density at 20°C	ca. 1300 kg/m ³
Evaporation rate	Not determined
Solubility in / Miscibility with water:	Slightly soluble
Partition coefficient (n-octanol/water):	ca. -2 log POW
Viscosity:	
dynamic:	Not applicable
Other information:	No further relevant information available

10. STABILITY AND REACTIVITY

Reactivity: No further relevant information available

Chemical Stability:

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of Hazardous Reactions: No dangerous reactions known

Conditions to Avoid: No further relevant information available.

Incompatible Materials: No further relevant information available.

Hazardous Decomposition Products: No dangerous decomposition products known.



11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

LD / LC50 values that are relevant for classification: 23209-59-8 Sodium calcium polyphosphate glass
Oral LD50 >5000 mg/kg (rat)

Primary irritant effect:

On the skin: No irritant effect.

On the eye: Moderate irritation

Sensitization: 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

12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity:

23209-59-8 Sodium calcium polyphosphate glass
EC50 >1000 mg/L (bacteria) (OECD 209)
LC0 (48h) >1600 mg/L (golden orfey)

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.

Bioaccumulative potential: Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

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.

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

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 packaging's thoroughly. They can be recycled after thorough and proper cleaning. Packaging's 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 packaging.

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

14. TRANSPORT INFORMATION

UN number

ADR, IMDG, IATA: not regulated

UN Proper Shipping Name

ADR, IMDG, IATA: not regulated

Transport Hazard Class (es)

ADR, IMDG, IATA Class: not regulated

Packing Group

ADR, IMDG, IATA: not regulated

Special Precautions: Not applicable

Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not dangerous according to the above regulations

UN "Model regulation": -

15. REGULATORY INFORMATION

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

National regulations

Decree to be applied in case of technical fault: Major accidents hazards regulation, annex: not applicable (German regulation)

Water hazard class: WGK 1: low water hazard risk (German regulation)

Other regulations, limitations and prohibitive regulations: The general dust exposure limit of 3 mg/m³, measured as alveolic part has to be observed (German TRGS 900, 2006).

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.



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

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 Harmonized System of Classification and Labeling 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

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

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.