



Revision Date: 12/08/2017

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY UNDERTAKING**Identification**

Product Name Calgon
Product Number CHM1005, CHM2005, CHM3005
Synonyms: Sodium Hexametaphosphate (SHMP), Glass H, Hexaphos,
Sodaphos, SHMP; glassy Sodium Phosphate; Sodium
Polyphosphate, glassy; Metaphosphoric Acid, Sodium
Salt; P60; Graham's Salt.

Use of the substance or preparation

Keeps calcium and other minerals in suspension so they will not interfere with the dyeing process.

Company Information:

Manufacturer: Rupert, Gibbon & Spider, Inc.
Manufacturer Address: 1147 Healdsburg Avenue
 Healdsburg CA 95448
Number: 800-442-0455

Emergency Number: CHEMTREC (24HR Emergency Telephone), call:
 1-800-424-9300
 International CHEMTREC, call: 1-703-527-3887

 For non-emergency assistance, call: 800-442-0455

2. HAZARDS IDENTIFICATION**GHS**

This product does not meet the criteria for classification under GHS

3. COMPOSITION/INFORMATION ON INGREDIENTS**Composition**

<u>Substance</u>	<u>CAS No</u>	<u>EINECS No</u>	<u>%w/w</u>	<u>Risk Phrase</u>
Sodium Hexametaphosphate (Polyphosphoric acids, sodium salts)	68915-31-1	272-808-3	100	R36/37/38



4. FIRST AID MEASURES

General

This product has low oral toxicity and is minimally irritating to the skin and eyes. Treatment is controlled removal of exposure and symptomatic and supportive care.

Eye contact

Rinse immediately with plenty of water. Get medical attention if irritation occurs and persists. The dry material may cause foreign body irritation in some individuals.

Skin contact

Wash with plenty of water. Prolonged contact with the dry material may cause drying or chapping of the skin.

Inhalation

Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Inhalation of the dust may cause coughing and sneezing.

Ingestion

Drink plenty of water. Never give anything by mouth to an unconscious person. No significant adverse health effects are expected if only small amount (less than a mouthful) are swallowed.

5. FIRE FIGHTING MEASURES

Extinguishing media

Non-combustible. No special requirement.

Unsuitable extinguishing media

Non-combustible. No special requirement.

Exposure hazards

No special considerations.

Protective equipment

As a general precaution, firefighters, and others exposed, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

No special requirement.

Environmental precautions

Small quantities: Presents no environmental problems.

Large quantities: As general precaution, avoid discharge into the environment.

Methods for cleaning up

Sweep, scoop or vacuum and place into containers for disposal. Flush area with water.



7. HANDLING AND STORAGE

Handling

Good industrial practice in housekeeping and personal hygiene should be followed. Avoid contact with eyes and skin. Wash hands immediately after handling. Remove material from clothing.

Engineering measures

Prevention of eye and skin contact may be required under normal use conditions. However, severe agitation or dispersion into the work environment may require enclosure of the process and local exhaust ventilation at the source to prevent release into the air. If the work environment controls are not implemented, then personal protection for inhalation, skin and eye may be required.

Storage

Store in cool, dry place to maintain product performance.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit

ACGIH TLV 10 mg/m³ (inhalable) 8-hr TWA, 3 mg/m³ (respirable) 8-hr TWA
OSHA PEL 15 mg/m³ (total dust) 8-hr TWA, 5 mg/m³ (respirable) 8-hr TWA

OSHA and ACGIH have not established specific exposure limits for this material. However, OSHA and ACGIH have established limits for particulates not otherwise regulated (PNOR) and particulates not otherwise classified (PNOC) which are the least stringent exposure limits applicable to dusts.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Use approved respiratory protective equipment as described in the U.S. OSHA 29 CFR 1910.134 or European Standard EN149.

Hand/skin protection

Wearing protective clothes is recommended; wash hand and contaminated skin thoroughly after handling.

Eye protection

Wear appropriate protective eye glasses or chemical safety goggles as described in the U.S. OSHA 29 CFR 1910.133 or European Standard EN 166.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color etc.): White powder, free flowing

Odor: Odorless

Odor Threshold: No data

pH: 5.6 – 8.8 at 1% solution

Melting point/freezing point: 628 °C or 1162 °F

Initial Boiling point and Boiling Range: 1500 °C or 2732 °F

Flash Point: Not applicable

Evaporation rate: No Data



SDS

SAFETY DATA SHEET

RUPERT, GIBBON & SPIDER PO BOX 425, HEALDSBURG CA, 95448 TEL: (707) 433-9577 FAX: (707) 433-4906

Flammability (solid or Gas): Not applicable
Upper/lower flammability or explosive limits: Not applicable
Vapor Pressure: No Data
Vapor Density: No Data
Relative Density: 500 kg/m³ - 1000 kg/m³
Solubility: <750g/l
Partition Coefficient,n-octanol/water: No Data
Auto-ignition temperature: No Data
Decomposition Temperature: No Data
Viscosity: No Data
Chemical Formula: Na₂O P₂O₅



10. STABILITY AND REACTIVITY

Solutions of this product will hydrolyze to form ortho-phosphate and other shorter chain phosphates. Dissolution is impacted by temperature and pH of the system.

Conditions to avoid

Excessive moisture.

Materials to avoid

No special material to avoid.

Hazardous decomposition products

Oxides of phosphorus

11. TOXICOLOGICAL INFORMATION

Laboratory data

Oral LD ₅₀ (rat):	6600 mg/kg.
Dermal LD ₅₀ (rabbit):	> 7940 mg/kg.
Eye Irritation (rabbit):	1.3/110.0; slightly irritating
Skin irritation (rabbit):	0.0/8.0, nonirritating

Rats fed this material in their diet for one month showed decreased growth, increased kidney, lung and spleen weight, and kidney damage. Rats fed this material for two years also showed decreased weight gain, increased kidney weight, and kidney changes. No increase in tumors was reported. No adverse effects in reproduction capacity were reported in a multigenerational study using rats fed this material.

12. ECOLOGICAL INFORMATION

Environmental Toxicity

The following data have been classified using the criteria adopted by the European Economic Community (EEC) for aquatic organism toxicity

48-hr EC ₅₀ Daphnia magna	> 485 mg/l
96-hr LC ₅₀ Rainbow trout	> 1000 mg/l
96-hr LC ₅₀ Medina & Mysid shrimp	> 1000 mg/l

Environmental Fate

Inorganic compounds in contact with the soil, sub-surface or surface waters may be taken up by plants and utilized as essential nutrients. Phosphates may also form precipitates, usually with calcium or magnesium. The resultant compounds are insoluble in water and become a part of the soil or sediment. The term biodegradability, as such, is not applicable to inorganic compounds.

**13. DISPOSAL CONSIDERATIONS****European waste catalog number**

Unknown

Disposal Considerations

This material when discarded is NOT a hazardous waste as that term is defined by the U.S. Resource, Conservation and Recovery Act (RCRA), 40 CFR 261. Dry material may be land filled or recycled in accordance with local, state and federal regulations. Consult your attorney or appropriate regulatory officials for information on such disposal.

14. TRANSPORT INFORMATION**Road/Rail, Sea and Air**

IMDG/UN	Not classified
ICAO/IATA	Not classified
RID/ADR	Unknown
Canadian TDG	Not classified
U.S. DOT	Not classified

15. REGULATORY INFORMATION**Chemical Inventory**

USA TSCA:	Listed	Australia	Listed
Canada DSL:	Listed	Korea	Listed
EC:	Listed	Philippines	Listed
Japan	Listed	China	Listed

Additional information

WHMIS Classification Not Controlled

SARA Hazard Notification

Hazard Categories Under Title III Rules (40 CFR 370):	Immediate, Delayed
Section 302 Extremely Hazardous Substances:	None
Section 313 Toxic Chemical(s):	None

CERCLA Reportable Quantity: Not applicable

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation and the MSDS contains all the information required by the Canadian Controlled Products Regulation.



16. OTHER INFORMATION

	Health	Fire	Reactivity	Additional Information
Suggested NFPA Rating	1	0	0	
Suggested HMIS Rating	1	0	0	F F = Safety glasses, gloves, synthetic apron, dust respirator

Drafted in accordance with ECC Dir 2001/58/EC

The information contained in this SDS is based on data from sources considered to be reliable but Rupert, Gibbon & Spider, Inc. does not guarantee the accuracy or completeness thereof. Rupert, Gibbon & Spider Inc. urges each customer or recipient of this SDS to study it carefully to become aware of and understand the hazards associated with this product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology or fire and understand the data in this SDS