

**Section 1: Identification**

<b>Product Name</b>	Polyhexamethylene Biguanide 20% Solution	
<b>Commercial Name</b>	Not available.	
<b>Product Use</b>	Topical Cosmetic Use; Antimicrobial	
<b>Restrictions On Use</b>	Refer to the detailed list of labeling /restrictions (Section 15 Regulatory Information)	
<b>Product Code</b>	30-4736	
<b>Company</b>	PCCA 9901 South Wilcrest Houston, TX 77099 Phone: 1-800-331-2498 Fax: 1-800-874-5760	In case of emergency contact: <b>CHEMTREC (24hr) 1-800-424-9300</b>

**Section 2: Hazard(s) Identification**

<b>OSHA Haz Com:</b>	Acute Toxicity – Oral Category 5 Sensitization – Skin Category 1 Eye Damage/Irritation Category 1 Acute
<b>CFR 1910.1200</b>	Toxicity – Inhalation Category 3 Carcinogenicity Category 2 Specific Target Organ Toxicity (Repeated Exposure) Category 1 Hazardous To The Aquatic Environment – Short-Term (Acute) Hazard Category 1 Hazardous To The Aquatic Environment – Long-Term (Chronic) Hazard Category 1

**Signal Word** DANGER

**Hazard Statement(s)** May be harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. Toxic if inhaled. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

**Pictogram(s) or Symbol(s)**



**Precautionary Statement(s):**

**Prevention**

P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash contact area thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

P311 Call a POISON CENTER/doctor. P314 Get medical advice/attention if you feel unwell. P321 Specific treatment (see measures on this label). P391 Collect spillage. P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor, if you feel unwell. P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308+P313 IF exposed or concerned: Get medical advice/ attention. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage**

P405 Store locked up. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

**Disposal**

P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.

**Section 3: Composition/Information on Ingredients**

<b>Substance/Mixture</b>	Mixture
<b>Components</b>	Polyaminopropyl Biguanide and Water
<b>% By Weight</b>	19.00-21.00% and 79.00-81.00%
<b>CAS#</b>	32289-58-0 and 7732-
<b>Molecular Weight</b>	Not available.
<b>Chemical Formula</b>	Not available.
<b>Synonym(s)</b>	Polyaminopropyl Biguanide

**Safety Data Sheet**

30-4736

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

**Mixtures**

<b>Name</b>	<b>CAS#</b>	<b>% by Weight</b>	<b>TLV/PEL</b>	<b>LC50/LD50</b>
Water	7732-18-5	79.00-81.00%	N/A	N/A
Polyaminopropyl Biguanide	32289-58-0	19.00-21.00%	N/A	N/A

**Section 4: First-Aid Measures**

<b>Inhalation</b>	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
<b>Skin Contact</b>	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Symptoms/Effects</b>	
<b>Acute</b>	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
<b>Delayed</b>	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

**Immediate Medical Attention**

Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination. Treat symptomatically. Symptoms may be delayed.

**Section 5: Fire-Fighting Measures****Suitable Extinguishing Media**

Dry chemical, carbon dioxide or alcohol-resistant foam

**Unsuitable Extinguishing Media**

Do not use a solid water stream as it may scatter or spread fire.

**Products of Combustion**

Containers may explode when heated. Fire exposed containers may vent contents through pressure relief valves. May expansion or decompose explosively when heated or involved in fire.

**Firefighters Special Equipment and Precautions**

As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. Fight fire from a safe distance, with adequate cover. Prevent fire extinguishing water from contaminating surface water or the ground water system.

**Section 6: Accidental Release Measures**

Personal Precautions, Protective Equipment and Emergency Procedures: Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid breathing vapours, mist, gas or dust. Environmental Precautions: Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided. Methods and Materials for Containment and Cleaning Up: Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

**Section 7: Handling and Storage**

Precautions for Handling: Handling is performed in a well ventilated place. Wear suitable protective equipment. Avoid contact with skin and eyes. Keep away from heat/sparks/open flames/ hot surfaces. Take precautionary measures against static discharges. Precautions for Storage: Keep containers tightly closed. Keep containers in a dry, cool and well-ventilated place. Keep away from heat/sparks/open flames/ hot surfaces. Store away from incompatible materials and foodstuff containers.

**Section 8: Exposure Controls/Personal Protection**

<b>Exposure Limits</b>	Monitoring Methods EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. GBZ/T 160 Determination of toxic substances in workplace air(Series effective standard)and GBZ/T 300 Determination of toxic substances in workplace air(Series standard).
<b>Engineering Controls</b>	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment. Set up emergency exit and necessary risk-elimination area.

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**Personal Protection**

Eye Protection Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US). Hand Protection: Wear protective gloves(such as butyl rubber), passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard. Respiratory protection: If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges. Skin and Body Protection: Wear fire/flame resistant/retardant clothing and antistatic boots.

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	Colorless transparent liquid		
<b>Odor</b>	Not available.		
<b>Odor Threshold</b>	Not available.		
<b>Melting Point</b>	Not available.	<b>pH</b>	6
<b>Freezing Point</b>	Not available.	<b>Vapor Pressure</b>	Not available.
<b>Boiling Point/Range</b>	Not available.	<b>Vapor Density</b>	Not available.
<b>Decomposition temperature</b>	Not available.	<b>Viscosity</b>	Not available.
<b>Partition Coefficient: n-octanol/water</b>	Not available.	<b>Evaporation Rate</b>	Not available.
<b>Flash Point</b>	Not available.	<b>Autoignition temperature</b>	Not available.
<b>Flammability</b>	Not available.	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	Not available.
		<b>Upper</b>	Not available.
<b>Solubility(ies)</b>	Not available.		
<b>Other</b>	Not available.		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Contact with incompatible substances can cause decomposition or other chemical reactions.
<b>Chemical Stability</b>	Stable under proper operation and storage conditions.
<b>Hazardous Polymerization</b>	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen.
<b>Conditions to Avoid</b>	Incompatible materials, heat, flame and spark.
<b>Incompatible Materials</b>	Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide.
<b>Hazardous Decomposition Products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Section 11: Toxicological Information**

<b>RTECS</b>	Not available.
<b>Acute Toxicity</b>	Not available
<b>Skin Corrosion/Irritation</b>	Causes serious eye damage
<b>Serious Eye Damage/Irritation</b>	May cause an allergic skin reaction
<b>Respiratory or Skin Sensitization</b>	Not available.
<b>Germ Cell Mutagenicity</b>	Not available.
<b>Carcinogenicity</b>	Not available.
<b>Reproductive Toxicity</b>	Not available.

**Routes of Entry**

Not available.

**Symptoms Related to Exposure**

Not available.

**Potential Health Effects**

Not available.

**Target Organ(s)**

STOT-Repeated Exposure Causes damage to organs through prolonged or repeated exposure

**Section 12: Ecological Information****Ecotoxicity**

Not available

**Persistence and Degradability**

Not available.

**Bioaccumulative Potential**

Not available.

**Mobility in Soil**

Not available.

**Other Adverse Effects**

Polyhexamethylene Biguanidine Hydrochloride does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII. Water does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

**Section 13: Disposal Considerations****Waste Disposal**

Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.

**Disposal of Container**

Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.

**Other Considerations**

Not available.

**Section 14: Transport Information****DOT Classification**

Marine pollutant Yes UN Number 3082 UN Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Transport Hazard Class 9 Transport Subsidiary Hazard Class NONE Packing Group III (Description: The graphic "fish and tree" is transport marking.)

**Section 15: Regulatory Information****Regulations**

Not available.

**Other**

N/A

**Section 16: Other Information**

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