



杭州大阳化工有限公司

Hangzhou Dayangchem Co., Ltd.

Safety Data Sheet

No :M-11603

Section 1 - Product and Company Identification

MSDS Name: Polyhexamethylenebiguanidine hydrochloride

Synonyms: Poly(iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl) hydrochloride

Company Identification: Hangzhou Dayangchem Co., Ltd.

For information, call: 86-571-88938639

For information,E-mail: infores@chinadayangchem.com

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Section 2 – Hazards Identification

Classification of the substance or mixture

Not a dangerous substance according to GHS.

This substance is not classified as dangerous according to Directive 67/548/EEC.

Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

Other hazards-none

Section 3 – Composition/Information on Ingredients

CAS#	Chemical Name	%	EINECS#
32289-58-0	Polyhexamethylenebiguanidine hydrochloride	95	/

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid immediately. Wash mouth out with water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: Use foam, dry chemical, or carbon dioxide.

Section 6 - Accidental Release Measures

Personal Precautions: Personnel should be equipped with appropriate protective wear during concentrated spillage removal (gloves, glasses, aprons).

Environmental precautions: Large amounts of uncontrolled discharges to environment should be reported to appropriate authorities. (3-4 ppm of active substance is quite safe for aquatic life).

Spills/Leaks: Use adsorbent (sand or special one). Put it in the container and dispose. Clean the area with water and soap.

Section 7 - Handling and Storage

Handling: void skin and eyes contact. Do not breathe spray. Do not eat or smoke during work with the preparation and obey safety rules when handling chemical substances.

Storage: Keep containers tightly closed and properly marked. Do not store with strong oxidizers and acids.

Section 8 - Exposure Controls, Personal Protection

Contains no substances with occupational exposure limit values.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: powder.

Color: White to slightly Yellow

Odor: Not available.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: ~120° C

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits:Lower: Not available.

Explosion Limits Upper: Not available.

Decomposition Temperature: >360° C

Solubility in water: Not available.

Specific Gravity/Density: ~0.8 g/cm³

Molecular Formula: (C₈H₁₇N₅)_n.xHCl

Molecular Weight: /

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials.

Incompatibilities with Other Materials: Strong oxidizers, acids and bases..

Hazardous Decomposition Products: Toxic fumes (carbon oxides, nitrogen oxides) may appear when burned (after water evaporation).

Section 11 - Toxicological Information

RTECS#: CAS# 32289-58-0: None listed

LD50/LC50: RTECS: LD₅₀ Oral Rat: 1022 mg/kg (100% A.I.)

LD₅₀ Skin Rat & Mice >>2500 mg/kg (100% A.I.)

Carcinogenicity: Polyhexamethylenebiguanidine hydrochloride - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Potential health effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. Causes skin irritation.

Eyes Causes serious eye irritation.

Section 12 - Ecological Information

Not available.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

IATA : Not regulated as a dangerous material.

RID/ADR: Not regulated as a dangerous material.

IMO: Not regulated as a dangerous material.

Section 15 - Regulatory Information

This safety data sheet complies with the requirements of Regulation (EC) No 1907/2006

Section 16 - Other Information

MSDS Creation Date: 23/09/2012

Revision #1 Date: 25/01/2014

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.