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Material Safety Data Sheet

Hexamidine Diisethionate MSDS

Section 1: Chemical Product and Company Identification

Product Name: Hexamidine Diisethionate

CAS#: 659-40-5

Synonym: Bioactive HD 100; HD-100

Chemical Name: Hexamidine Diisethionate

Chemical Formula: C₂₀H₂₆N₄O₂•2C₂H₆O₄S

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Hexamidine Diisethionate	659-40-5	100

Toxicological Data on Ingredients: Not available.

Section 3: Hazards Identification

Classification and Labelling Information:

This substance is not classified in the Annex I of Directive 67/548/EEC and REGULATION (EC) No 1272/2008.

Potential Health Effects:

Acute Eyes: May cause moderate eyes irritation.

Acute Skin: Skin absorption not likely. May cause slight transient skin irritation.

Acute Inhalation: Inhalation unlikely, unless mists are generated. In human, irritation of the mouth, pharynx, esophagus and stomach can develop following ingestion of this production. This material may be harmful if swallowed.

Acute Ingestion: May irritate mucous membranes irritation.

Chronic Effects: This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

Section 4: First Aid Measures

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses Seek medical attention.

Skin Contact:

Immediately flush the contaminated skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If irritation occurs, seek medical attention.

Inhalation:

Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.

Ingestion:

Immediately rinse out the mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person.

Section 5: Fire and Explosion Data

Flammable Properties: Not flammable.

Extinguishing Media:

Recommended (small fires): Carbon dioxide, Dry chemical.

Recommended (large fire): Water, Aqueous foam.

Instructions:

Keep personnel removed from and upwind of fire. Wear full firefighting turn-out gear(full bunker gear) and respiratory protection (self-contained breathing apparatus).

Cool container with water spray.

Section 6: Accidental Release Measures

Initial Containment:

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Environmental precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drain and sewers.

Spill Clean up:

Vacuum or carefully sweep up material and place into an appropriate container for disposal by incineration.

Avoid generating dusty conditions. Provide ventilation. Do not let this chemical concentrations low. Enter the environment.

Section 7: Handling and Storage

Handling: Do not breathe vapor or mist. Do not get in eyes, on skin, or on clothing.

Storage: Keep container tightly closed. Store in a dry, cool and ventilated place.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Dust mask, equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Eye Protection: Wear appropriate protective eyeglasses.

Skin Protection: Rubber or neoprene, protective clothing (long sleeves, coveralls or other, as appropriate), when needed, to prevent skin contact.

Respiratory Protection: Not established exposure limits.

General: No specific protections are needed.

Section 9: Physical and Chemical Properties

Physical state and appearance: Powder

Odor: Slight characteristic odor.

Taste: Not available.

Molecular Weight: 606.714 g/mole

Color: White to off white

pH (1% soln/water): Not available.

Boiling Point: Not available.

Melting Point: 246-247°C

Specific Gravity: Not available.

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Not available.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Incompatibility with Other Materials: Avoid radical forming substances (metal-ions, peroxides). Strong oxidizing agents.

Hazardous Decomposition Products: NO.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Information on toxicological effects

Acute toxicity

LD50 Oral - Mouse - 710 - 2,500.0 mg/kg(Hexamidine diisethionate)

LD50 Oral - Rat - 750 mg/kg(Hexamidine diisethionate)

LD50 Dermal - Rat - > 4,000.0 mg/kg(Hexamidine diisethionate)

Skin corrosion/irritation

Skin - Rabbit(Hexamidine diisethionate)

Result: Mild skin irritation - 672 h

Serious eye damage/eye irritation

Eyes - Rabbit(Hexamidine diisethionate)

Result: Mild eye irritation

Respiratory or skin sensitisation

- Guinea pig(Hexamidine diisethionate)

Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

No data available(Hexamidine diisethionate)

Non-mammalian(Hexamidine diisethionate)

S. typhimurium

Result: Not mutagenic in Ames Test

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available(Hexamidine diisethionate)

Specific target organ toxicity - single exposure

No data available(Hexamidine diisethionate)

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available(Hexamidine diisethionate)

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Hexamidine diisethionate)

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Not available.

Toxicity of the Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

UN number

ADR/RID: - IMDG: - IATA: -

UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

Packaging group

ADR/RID: - IMDG: - IATA: -

Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

Special precautions for user

No data available

Section 15: Other Regulatory Information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical safety assessment

For this product a chemical safety assessment was not carried out

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/09/2009 05:26 PM

Last Updated: 05/21/2017 12:00 PM

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