

MATERIAL SAFETY DATA SHEET

NO. H17

DATE ISSUED: 05/10/2009
REVISION NO.: 2**KEMKLEAN HYGIENE SYSTEMS**23 Induland Ave
Lansdowne, 7780
Tel: 021-691 2211**Emergency Tel.: 082 602 2657**c/o 3 Jansen Road, Witfield
Jetpark, 1459

Tel: 011-826 6785

Local Poison Information Centre Tel.: **021 689 5227****1. PRODUCT IDENTIFICATION:**Product Name:**HYGEN B20**Product Code: H17Product Description:

Disinfectant based on polymeric biguanide hydrochloride compound.

2. COMPOSITION:**This product is a Chemical Preparation**Hazardous ComponentsPolymeric Biguanide
Hydrochloride (20%)CAS No.

027083-27-8

Table No.*

not listed

R No.

38 - 43

Conc. Range %

4 - 6

* Occupational Health and Safety Act Annexure 1 OEL and BEI Tables.

3. HAZARDS IDENTIFICATION:

Main Hazard: May cause sensitisation by skin contact.

Flammability: Non-flammable

Chemical Hazard: None - mildly acidic solution.

Health Effects - Eyes: Can cause irritation, if splashed in eyes.

- Skin: Prolonged contact may result in irritation.

- Ingestion: Can cause irritation of mouth and upper digestive tract.

- Inhalation: Can cause irritation of nose and upper respiratory tract, if spray inhaled.

4. FIRST AID MEASURES:

Product - in eye: Immediately flush with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

- on skin: Wash with soap and water, Get medical attention if irritation persists.

- ingested: Give water to drink. **DO NOT INDUCE VOMITING.** Get medical attention if ill effects occur.

- inhaled: Remove to fresh air. Get medical attention if ill effects occur.

NOTE: This MSDS is compiled in accordance with the Hazardous Substances Regulation 9A / Annexure 8 of Occupational Health and Safety Act 85 of 1993 and SABS Specification ISO 11014-1994: Safety Data Sheet for chemical products. It also complies with requirements of Section 21 of Mine Health and Safety Act 26 of 1996.

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<p>5. <u>FIRE FIGHTING MEASURES:</u> Extinguishing Media: Product is non-flammable and will not support combustion.</p> <p>Specific Hazards: None</p> <p>Protective Clothing: Use normal fire fighting equipment.</p>	
<p>6. <u>ACCIDENTAL RELEASE MEASURES:</u> Personal Precautions: Wear suitable protective clothing, gloves and eye/face protection. Ensure adequate ventilation.</p> <p>Environmental Precautions: Prevent large quantities getting into waterways. Failure to contain a release must be reported to relevant local authority.</p> <p>Small Spills: Mop up and/or flush away with water.</p> <p>Large Spills: Absorb into sand, collect and dispose to land fill. Flush residue away with water.</p> <p style="text-align: center;">Dispose of in accordance with local municipal / waste authority regulations</p>	
<p>7. <u>HANDLING AND STORAGE:</u> Handling Precautions: No special precautions. Normal handling care.</p> <p>Storage Precautions: No special precautions. Keep containers closed. Normal good housekeeping practices should be used.</p> <p>Suitable Packaging Materials: H.D. Polyethylene drums and bottles.</p>	
<p>8. <u>EXPOSURE CONTROLS / PERSONAL PROTECTION:</u> Engineering Control Measures: None required.</p> <p>Occupational Exposure Limits: None. Avoid contact with eyes and skin.</p> <p>Personal Protection - Respiratory: None required.</p> <ul style="list-style-type: none"> - Hands: Gloves recommended in cases of extensive exposure/usage. - Eyes: None required. - Skin/Body: None required. <p>Other Protection: None required for normal use.</p>	

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PRODUCT: HYGEN B20	<u>KEMKLEAN HYGIENE SYSTEMS</u>
<p>9. <u>PHYSICAL AND CHEMICAL PROPERTIES:</u> Appearance: Clear, colourless liquid</p> <p>Odour: Odourless pH: 4,5 - 5,5 @ 100% Conc. Density: 1,00 - 1,01g/cm³</p> <p>Solubility - Water: Fully soluble</p> <p>Flammability: non-flammable Boiling Point: 100 °C Decomposition Temp.: > 100 °C Flash Point: None Autoignition Temp.: None</p> <p>Explosive Properties: None Oxidising Properties: None</p>	
<p>10. <u>STABILITY AND REACTIVITY:</u> Stability: Stable at ambient temperatures up to 50 °C Conditions to Avoid: None Materials to Avoid: Acids. Do not mix with soaps or anionic detergents. Hazardous Decomposition Products: None</p>	
<p>11. <u>TOXICOLOGICAL INFORMATION:</u> Acute Toxicity: <u>Polymeric Biguanide Hydrochloride</u>: Oral LD₅₀ (rat): 2500mg/kg Not classified as harmful if swallowed. Local Effects - Eyes: May cause eye irritation.</p> <ul style="list-style-type: none"> - Skin: May cause sensitisation. Prolonged contact may result in irritation. - Ingestion: May cause irritation of gastrointestinal tract. - Inhalation: Can cause irritation of nose and upper respiratory tract, if spray inhaled. <p>Long Term Exposure: Not carcinogenic or teratogenic</p>	
<p>12. <u>ECOLOGICAL INFORMATION:</u> Biodegradability: Readily Biodegradable</p> <p>Bioaccumulation: Unlikely to accumulate in the aquatic environment.</p> <p>Ecotoxicity: Discharge of large quantities into surface waters will kill fish and other aquatic organisms. Toxic to fish and invertebrates.</p>	

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<p>13. <u>DISPOSAL CONSIDERATIONS:</u> Waste Disposal: Use landfill. Do not wash into drains. Do not mix with other chemical waste. Packaging Disposal: Drain well and rinse thoroughly before recycling Dispose of in accordance with local waste authority/municipal regulations.</p>	
<p>14. <u>TRANSPORT INFORMATION:</u> U.N. No. / Substance Identity No.: None Classification and Hazard Warning: Not classified as dangerous for transport by road or rail.</p>	
<p>15. <u>REGULATORY INFORMATION:</u> EEC Hazard Classification: Not classified as dangerous. Hazard Symbols: None required. Risk Phrases: R38: May be irritating to skin. R43: May cause sensitisation by skin contact. Safety Phrases: S24: Avoid contact with skin. National / Local Regulations: None</p>	
<p>16. <u>OTHER INFORMATION:</u> None</p>	
<p>This MSDS is accurate to the best of Kemklean Hygiene System's knowledge and is based on information which it considers to be reliable. It is furnished without warranty with respect to the accuracy or completeness of the data, either expressed or implied.</p>	