

SAFETY DATA SHEET

DRAFT VERSION

1. Identification

Product identifier BISM HOSPITAL DISINFECTANT 256

Other means of identification

Product number 10201-050402

Recommended use Disinfectant Cleaner

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name BISM / Blind Industries and Services of Maryland

Address 3345 Washington Boulevard
Baltimore, MD 21227

Telephone Phone: 410-737-2600

Fax: 410-737-2667

Website www.bism.org

Emergency phone number INFOTRAC 800-535-5053

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Not classified

Acute toxicity, dermal Not classified

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes serious eye damage. Causes skin irritation.

Prevention Wear safety glasses with side shields (or goggles). Wear protective gloves. Wash hands thoroughly after handling.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Storage Store away from incompatible materials. Keep out of the reach of children.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information None known.

3. Composition/information on ingredients

Mixtures

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| Chemical name | CAS number | % by weight |
|---|-------------|-------------|
| N-Alkyl(C14 50%, C12 40%, C16 10%)-N,N-dimethyl-N-benzylammonium Chloride | 68424-85-1 | 5 - <10 |
| Didecyl dimethyl ammonium chloride | 7173-51-5 | 1 - <5 |
| Dioctyl Dimethyl Ammonium Chloride | 5538-94-3 | 1 - <5 |
| Ethyl Hydroxide | 64-17-5 | 1 - <5 |
| Non-Ionic Surfactant | Proprietary | 1 - <5 |

4. First-aid measures

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|---|---|
| Eye contact | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Skin contact | Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. |
| Ingestion | Rinse mouth. Get medical attention if symptoms occur. |
| Inhalation | Move to fresh air. Call a physician if symptoms develop or persist. |
| Notes to physician | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. |
| Most important symptoms/effects, acute and delayed | Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. |
| General information | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

5. Fire-fighting measures

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| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). |
| Unsuitable extinguishing media | None known. |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed. |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |

6. Accidental release measures

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| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS. |
| Methods and materials for containment and cleaning up | Large Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. |

7. Handling and storage

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| Precautions for safe handling | Wear appropriate personal protective equipment. Do not get this material in contact with eyes. Avoid contact with skin. Avoid contact with clothing. Avoid prolonged exposure. Provide adequate ventilation. Do not mix with other chemicals. Observe good industrial hygiene practices. |
| Conditions for safe storage, including any incompatibilities | Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of the reach of children. |

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8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

| Components | Type | Value |
|-------------------------------|------|----------|
| Ethyl Hydroxide (CAS 64-17-5) | STEL | 1000 ppm |

Control parameters

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Type | Value |
|-------------------------------|------|------------------------|
| Ethyl Hydroxide (CAS 64-17-5) | PEL | 1900 mg/m3 1000 ppm |

Appropriate engineering controls Eye wash facilities and emergency shower must be available when handling this product. Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear protective gloves.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

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|---|--|
| Appearance | clear |
| Form | Liquid. |
| Color | Colorless or Clear green |
| Odor | mild, characteristic or Pleasant Sassafrass or Floral spring |
| Odor threshold | Not available. |
| pH | 1.3 |
| Melting point/freezing point | Not available. |
| Boiling point | 212 °F (100 °C) |
| Flash point | None to boiling. |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Solubility(ies) | |
| Solubility (water) | 100 % |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |

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|------------------|------------|
| Viscosity | Water-thin |
| Specific gravity | 1.02 |
| VOC (Weight %) | 2.1 % |

10. Stability and reactivity

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|------------------------------------|---|
| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | Hazardous polymerization does not occur. |
| Conditions to avoid | Contact with incompatible materials. Do not mix with other chemicals. Reacts violently with strong alkaline substances. |
| Incompatible materials | Incompatible with bases. This product may react with reducing agents. |
| Hazardous decomposition products | No hazardous decomposition products are known. |

11. Toxicological information

Toxicological data

| Product | Test Results |
|--|--|
| BISM HOSPITAL DISINFECTANT 256 (Mixture) | Acute Dermal LD50 Rabbit: > 5000 mg/kg / |
| | Acute Oral LD50 Rat: 5890 mg/kg / |

Information on likely routes of exposure

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| Eye contact | Causes serious eye damage. |
| Skin contact | Causes skin irritation. |
| Ingestion | Expected to be a low ingestion hazard. May cause discomfort if swallowed. |
| Inhalation | No adverse effects due to inhalation are expected. |
| Symptoms related to the physical, chemical and toxicological characteristics | Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. |

Skin corrosion/irritation

Irritation Corrosion - Skin

| | |
|--------------------------------|--|
| BISM HOSPITAL DISINFECTANT 256 | 4.496 Primary Skin: Draize, moderately irritating Species: Rabbit |
|--------------------------------|--|

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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|----------------------------------|--|
| Reproductive toxicity | This product is not expected to cause reproductive or developmental effects. |
| Chronic effects | Prolonged inhalation may be harmful. |
| Toxicological information | Occupational exposure to the substance or mixture may cause adverse effects. |

12. Ecological information

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|-------------------------------|---|
| Ecotoxicity | Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected. |
| Persistence and degradability | No data is available on the degradability of this product. |
| Bioaccumulative potential | No data available. |
| Other adverse effects | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

13. Disposal considerations

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|-----------------------|--|
| Disposal instructions | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. |
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| Hazardous waste code | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| Waste from residues / unused products | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. |

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA (Superfund) reportable quantity

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous chemical

No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Ethyl Hydroxide (CAS 64-17-5)

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

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US. Pennsylvania RTK - Hazardous Substances

Ethyl Hydroxide (CAS 64-17-5)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| Canada | Domestic Substances List (DSL) | No |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | No |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | No |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

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|----------------------------|---|
| Issue date | Draft version. |
| Revision date | Draft version. |
| Version # | 03 |
| Further information | This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label: DANGER CORROSIVE Causes irreversible eye damage and skin burns. |
| Disclaimer | The information in the sheet was written based on the best knowledge and experience currently available. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. |