

Material Safety Data Sheet

BYOTROL CONCENTRATED

acc. to ISO/DIS 11014

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· Product details

· **Trade name:** A1616 Fortress Intermediate

· **Article number:** A1616

· **Application of the substance / the preparation** Bactericide

· **Manufacturer/Supplier:**

Byotrol LLC

P.O. 313

Roebuck

SC 29367

Tel: 864 578 6770

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· **Information department:** CHEMTREC 1-800 424 9300 or 1(703)527 3887 outside the USA

· Chemical characterization

· **Description:**Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

57-55-6 propane-1,2-diol £ 2.5%

64-17-5 ethanol £ 2.5%

7173-51-5 didecyldimethylammonium chloride £ 2.5%

52-51-7 bronopol (INN) £ 2.5%

139-07-1 benzododecinium chloride £ 2.5%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

· **Hazard description:** Not applicable.

· **Information pertaining to particular dangers for man and environment:**

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **NFPA ratings (scale 0 - 4)**

· **WHMIS-ratings (scale 0 - 4)**

· **General information:** No special measures required.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** If symptoms persist consult doctor.

· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

· **Protective equipment:** No special measures required.

· **Person-related safety precautions:** Not required.

· **Measures for environmental protection:**

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· **Additional information:** No dangerous substances are released.

· **Handling:**

· **Information for safe handling:** No special measures required.

· **Information about protection against explosions and fires:** No special measures required.

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** None.

· **Additional information about design of technical systems:** No further data; see item 7.

· **Components with limit values that require monitoring at the workplace:**

64-17-5 ethanol

PEL

REL

TLV

1900 mg/m³, 1000 ppm

1900 mg/m³, 1000 ppm

1880 mg/m³, 1000 ppm

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

· **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product / the substance/ the preparation.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks

of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore

to be checked prior to the application.

· **Penetration time of glove material**

The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has

to be observed.

· **Eye protection:** Goggles recommended during refilling.

· **General Information**

Form: Fluid

Color: According to product specification

Odor: Characteristic

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· **Flash point:** Not applicable.

- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Vapor pressure at 20°C (68°F):** 23.0 hPa (17 mm Hg)
- **Density at 20°C (68°F):** 0.999 g/cm³
- **Solubility in / Miscibility with Water:** Fully miscible.

- **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

- **Acute toxicity:**

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** No irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- **Product:**

- **Recommendation:** Smaller quantities can be disposed of with household waste.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agent:**Water, if necessary with cleansing agents.

- **Land transport ADR/RID (cross-border):**

- **ADR/RID class:** -

- **Maritime transport IMDG:**

- **Marine pollutant:** No

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

- **Section 313 (Specific toxic chemical listings):**

52-51-7 bronopol (INN)

67-63-0 propan-2-ol

- **TSCA (Toxic Substances Control Act):**

7732-18-5 water, distilled, conductivity or of similarpurity

57-55-6 propane-1,2-diol

64-17-5 ethanol

7173-51-5 didecyldimethylammonium chloride

52-51-7 bronopol (INN)

139-07-1 benzododecinium chloride

67-63-0 propan-2-ol

139-08-2 miristalkonium chloride

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity:**

None of the ingredients is listed.

· **Carcinogen categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

64-17-5 ethanol A4

· **MAK (German Maximum Workplace Concentration)**

64-17-5 ethanol 5

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Product related hazard informations:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

· **Safety phrases:**

Keep in a cool place.

Keep container in a well-ventilated place.

This material and its container must be disposed of as hazardous waste.

· **National regulations:**

· **Technical instructions (air):**

Class Share in %

Water 86.2

III 4.8

· **Water hazard class:**Water hazard class 2 (Self-assessment): hazardous for water.

This information is based on our present knowledge. However, this shall not constitute a guarantee

for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing MSDS:** Product safety department: LABORATORY

· **Contact:** DAVE MCROBBIE