

# Material Safety Data Sheet

**Product name:** Mycoplasma disinfection spray

**Supplier:** ZmTech Scientific

**Product No.:** M208045

**Validation date:** 4/15/2008

## 1. Hazards identification

**Physical state:** Liquid.

**OSHA/HCS status:** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Chemical characterisation:** Solution in alcohols, glutaraldehyde, benzelthoniacetate and Mynox in water

Active ingredients and harardous components:

CAS-No.	Einecs-No.	Name	Contents	Danger	Risks
71238	2007469	1-propanol	32,5 %	F, Xi	11-41-67
64175	2005786	ethanol	18,0 %	F	11
111308	2038565	glutaraldehyde	0,1 %	T	23/25-34-42/43
---	---	Mynox®	0,05 %	---	---
121540	2044799	benzelthoniacetate	0,02 %	T	22-37-38-41

**Potential acute health effects:**

**Inhalation:** Irritating to respiratory system.

**Eyes:** Irritating to eyes.

**Skin:** Irritating to skin.

**Possible hazards to human being and the environment:**

- May cause damage to eyes
- Irritation of mucous membranes and wounds
- Keep away from ignition sources

## 2. 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. Get medical attention.

**Skin contact:** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Inhalation:** Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention.

If unconscious, place in recovery position and get medical attention immediately.

Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Ingestion:** Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Protection of first-aiders:** No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### 3. Fire-fighting measures

Suitable extinguishing media: Water, foam, powder, carbon dioxide (CO<sub>2</sub>)

#### Special protective equipment for fire-fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 4. Accidental release measures

**Personal safety:** Wear protective gloves and goggles

**Cleaning and absorption methods:** Collect with absorbent material and place in container for disposal according to local regulation. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

**Environmental precautions:** Keep away from ignition sources. Product must not enter ground, sewerage system or water course.

### 5. Handling and storage

#### Handling:

Measures for safe handling: Always keep the containers tightly closed

Prevention of fire and explosions: No particular measures

Requirements for storage rooms and containers: Store in a cool and dry place, in the original container, at temperatures of 5-30°C.

Advice for storage together with other products (observe national regulation for storage of chemicals): Keep away from foodstuffs

#### Storage:

Storage conditions: Storage instruction for flammable liquids

Storage class: LGK 3A (as per association of chemical industries)

### 6. Exposure controls/personal protection

#### Personal protection

General protective and hygiene measures: Wash hands before break and at the end of working period

Hand protection: Wear synthetic or rubber gloves

Eye protection: Wear goggles

Active ingredients and hazardous components

CAS-No.	Name of substance	Contents	Type	Value	Unit
64175	ethanol	18,0 %	MAK	1000	ppm
111308	glutaraldehyde	0,1 %	MAK	0,1	ppm

### 7. Physical and chemical properties

**Physical state:** Liquid.

**Colour:** colourless

**Odour:** scented

Flash point:

Value/Range	Unit	Method
26,5	°C	DIN 51755

Self-ignition: does not inflame spontaneously

Explosion limits: no risk of explosion

Density: at 20°C approx. 0,9 g/cm<sup>3</sup>

Solubility in water: as desired

Viscosity: at 20°C approx. 2 mPa.s DIN 51562

pH-value: (50 g/l) 20°C approx. 7

Percentage of dissolving substance: water approx. 50 %

## 8. Toxicological information

### Acute toxicity:

On mucous membrane: irritating

On eyes: irritating

**Toxicity data:** ORL-RAT LD50 420 mg kg<sup>-1</sup>  
SCU-RAT LD50 119 mg kg<sup>-1</sup>  
IPR-RAT LD50 16 mg kg<sup>-1</sup>  
ORL-MUS LD50 338 mg kg<sup>-1</sup>  
IVN-MUS LD50 30 mg kg<sup>-1</sup>  
IPR-MUS LD50 15 mg kg<sup>-1</sup>

## 9. Ecological information

### United States

General indication: biodegradable

**Hazardous waste:** The classification of the product may meet the criteria for a hazardous waste. **Disposal should be in accordance with applicable regional, national and local laws and regulations.**

## 10. Regulatory information

Classification and labeling according to EEC-regulations and guidelines

F- Inflammable

Xi- irritating

Components influencing the labeling: 1-propanol, ethanol

R-: R 11 Inflammable

R 41 May cause serious damage to eyes

S-: S 7 Keep container tightly closed

S 16 Keep away from ignition sources – do not smoke

S 26 In case of contact with eyes, rinse immediately with plenty of water

S 39 Wear goggles

Further national regulations:

German “Flammable liquid” classification: None

Water hazard class: WGK 1 (Germany) – self-classification

Observe safety instructions for work places

Keep out of reach of children!

**Canada inventory:** **Canada inventory:** All components are listed or exempted.



**Hazard symbol or symbols:** Irritant

**Risk phrases:** R36/37/38- Irritating to eyes, respiratory system and skin.

## 11. Other information

### Hazardous Material Information System (U.S.A.):



2: **Health**

0: **Flammability**

0: **Physical hazards**

0: Instability

**The customer is responsible for determining the PPE code for this material.**

### Notice to reader

The information given herein are based on the present state of our knowledge and do not therefore guarantee certain properties; nor do they create a contractual legal position.