

# **Material Safety Data Sheet**

acc. to ISO/DIS 11014

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## **1. Identification of the substance/mixture and of the company/undertaking**

### **Product details**

**Name:** Gentian Violet Surgical Ink

**Application of substance/the preparation:** water based fibrepen ink

**Manufacturer:** Precision Medical

## **2. Composition/information on ingredients**

### **Chemical characterization:**

Mixture of the following substances, containing non-hazardous substances and colouring agents

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

### **Dangerous components:**

67-63-0	Propan-2-ol	10-25%
548-62-9	C.I. Basic Violet 3	2.5-10%

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

## **3. Hazards identification**

### **Classification of the substance or mixture**

**Classification according to directive 67/548/EEC or Directive 1999/45/EC**

**Harmful:** Limited evidence of a carcinogenic effect.

**Irritant:** Irritating to eyes

### **Dangerous for the environment:**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Flammable. Vapours may cause drowsiness and dizziness.

### **Classification system:**

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

### **Risk phrases:**

Flammable

Irritating to eyes

Limited evidence of a carcinogenic effect.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Vapours may cause drowsiness and dizziness

**Safety phrases:**

Keep container tightly closed.

Keep away from sources of ignition - No smoking.

Wear suitable protective clothing, gloves and eye/face protection.

Use appropriate container to avoid environmental contamination.

**Classification system****NFPA ratings (scale 0 - 4)**

Health = 1 Fire = 3 Reactivity = 0

**HMIS ratings (scale 0 - 4)**

Health = \*1 Fire = 3 Reactivity = 0

**4. First aid measures**

**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. If symptoms persist, consult a doctor.

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

**5. Firefighting measures**

**Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

**For safety reasons unsuitable extinguishing agents:**

Water

Water with full jet

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

**6. Accidental release measures**

**Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

**Measures for environmental protection:**

Inform respective authorities in case of seepage into water course or sewage system.  
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) .

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

## **7. Handling and storage**

### **Handling:**

#### **Information for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

#### **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

### **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:** Keep receptacle tightly sealed.

## **8. Exposure controls/personal protection**

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

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

#### **57-55-6 propane-1,2-diol (25-50%)**

WEEL: 10 mg/m<sup>3</sup>

#### **67-63-0 propan-2-ol (10-25%)**

PEL: 980 mg/m<sup>3</sup>, 400 ppm

REL: Short-term value: 1225 mg/m<sup>3</sup>, 500 ppm

long-term value: 980 mg/m<sup>3</sup>, 400 ppm

TLV: Short-term value: 984 mg/m<sup>3</sup>, 400 ppm

long-term value: 492 mg/m<sup>3</sup>, 200 ppm

BEI

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

### **Personal protective equipment:**

#### **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

**Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**Protection of hands**

Protection gloves

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

Due to missing tests no recommendation to the glove material can be given for the product / the preparation / the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**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 break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Tightly sealed goggles

***9. Physical and chemical properties*****General information****Appearance:**

**Form:** Fluid

**Color:** According to product specification

**Odor:** Alcohol-like

**Important information on protection of health and environment, and on safety:****Change in condition**

**Melting point/Melting range:** n.d.<sup>°C</sup>

**Boiling point/Boiling range:** 82<sup>°C</sup> (180 <sup>°F</sup>)

**Flash point:** 30<sup>°C</sup> (86 <sup>°F</sup>)

**Ignition temperature:** 371<sup>°C</sup> (700 <sup>°F</sup>)

**Auto igniting:** Product is not selfigniting

**Danger of explosion:** Product is not explosive.

However, formation of explosive air/vapor mixtures are possible.

**Explosion limits:**

**Lower:** 2.0 Vol %

**Upper:** 12.6 Vol %

**Vapor pressure at 20°C (68°F):** 43 hPa (32 mm Hg)

**Density at 20°C (68°F):** 0.966g/cm<sup>3</sup> (8.061 lbs/gal)

**Solubility in / Miscibility with water:** Not miscible or difficult to mix.

**Solvent content:**

**Organic solvents:** 46.0 %

**Water:** 48.9 %

**10. Stability and reactivity**

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

No decomposition if used according to specifications.

**Materials to be avoided:**

**Dangerous reactions:** No dangerous reactions known.

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

**11. Toxicological information**

**Acute toxicity:**

**LD/LC50 values that are relevant for classification**

**67-63-0 propan-2-ol**

Oral LD50 4570 mg/kg (rat)

Dermal LD50 13400 mg/kg (rab)

Inhalative LC50/4 h 30 mg/l (rat)

**Primary irritant effect:**

**On the skin:** No irritant effect.

**On the eye:** Irritating effect.

**Sensitization:** No sensitizing effects known.

**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation

methods for preparations:

Irritant

**12. Ecological information**

**Ecological effects:**

**Remark:** Toxic for fish

**Additional ecological information:**

**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.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

**13. Disposal considerations**

**Product:**

**Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packagings:**

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

**14. Transport information**

**DOT regulations:**

**hazard class:** 3

**Identification number:** UN1263

**Packing group:** III

**Proper shipping name (technical name):** PAINT

**Label:** 3

**Remarks:** Special marking with the symbol (fish and tree).

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

**ADR/RID class:** 3 (F1) Flammable liquids

**Danger code (Kemler):** 30

**UN-Number:** 1263

**Packing group:** III

**Special marking:** Symbol (fish and tree)

**Description of goods:** 1263 PAINT

**Maritime transport IMDG:**

**IMDG class:** 3

**Un Number:** 1263

**Label:** 3

**Packing group:** III  
**EMS number:** F-E,S-E  
**marine pollutant:** Yes. Symbol (fish and tree)  
**Propper shipping name:** PAINT (C.I. Basic Violet 3)  
**Remarks:** 1263 Paint (C.I. Basic Violet 3), Marine Pollutant

**Air transport ICAO-TI and IATA-DGR:**

**ICAO/IATA class:** 3  
**UN/ID number:** 1263  
**Label:** 3  
**Packing group:** III  
**Propper shipping name:** PAINT

**Environmental hazards:**

Product contains environmentally hazardous substances: C.I. Basic Violet 3

***15. Regulatory information***

**Sara**

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

None of the ingredient is listed.

**Section 313 (specific toxic chemical listings):**

67-63-0: propan-2-ol

**TSCA (Toxic Substances Control Act)**

All ingredients are listed.

**Proposition 65**

**Chemicals known to cause cancer:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**Carcinogenic categories:**

**EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**IARC (International Agency for research on Cancer)**

67-63-0: propan-2-ol

**NTP (National Toxicology Program)**

None of the ingredients is listed.

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

67-63-0: propan-2-ol

**MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

**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.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**National regulations:**

**Technical instructions (air):**

Class	Share in %
NK	25-50

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

***16. Other information***

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 .

**Data compared to the previous version altered.**