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# SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

VMARKER PEN **Product Formal Name** 

**Product Form** Marker Pen

**Product Use** Ink for writing instrument, for professional use only

VITROMED GmbH – Hans-Knöll-Str. 6 – 07745 Jena – Germany Manufacturer

For Emergency Assistance **Phone** +49 3641 5 39 19 76

> Mail support@vitromed.com

**SECTION 2 – HAZARDS IDENTIFICATION** 

Regulation (EC) No 1272/2008 Non-Dangerous

Potential Acute Health Effects Intentional exposure to ink vapors may cause respiratory

> irritation. May cause upset stomach by ingestion. Ink contact with skin may cause irritation, swelling or redness. It is not

expected to cause an allergic skin reaction.

Potential Chronic Health Effects Not available

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

For ink unless otherwise specified: 1-Methoxypropan-2-ol (40 - 90 %), Chromium(III) compound (13 %), Copper compound (1 - 6%).

**SECTION 4 - FIRST AID MEASURES** 

Inhalation Remove to fresh air. If breathing becomes difficult, call a

physician.

Eyes Flush with plenteous amounts of water for at least 15 minutes.

Insure adequate flushing by separating the eyelids with fingers.

Skin Wash after each contact.

Ingestion Wash out with water provided person in conscious. Call a

physician.

Seek medical attention if any discomfort should occur.

**SECTION 5 – FIREFIGHTING MEASURES** 

**Extinguishing Media** Water spray, carbon dioxide, dry chemical powder or

appropriate foam.

**Special Firefighting Procedure** Wear self-contained breathing apparatus and protective

clothing to prevent contact with skin and eyes.

**Unusual Fire and Explosion Hazards** Emits toxic fumes under fire conditions.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Wear chemical safety goggles. Wear rubber gloves. Avoid

contact with skin, eyes and clothing.

**Environmental Precautions** Prevent entry to sewers and public waters.

Methods for Cleaning Up Rinse spill area with water. Dispose with laboratory waste.

**SECTION 7 – HANDLING AND STORAGE** 

Handling Refer Section 8.

Store in a dry, cool, well-ventilated location, away from all Storage

possible sources of ignition.

See instructions for use delivered with the device. For Specific Use

professional use only. Only for writing.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Controls (Occupational) Not required in normal use.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES** 

**Appearance and Odor** Liquid; Color: black, red, blue or green; Organic solvent odor

pН Not available

**Boiling Point** 120°C (1-Methoxypropan-2-ol)

## **VMARKER PEN**

Safety Data Sheet

Flash Point 32.2°C (1-Methoxypropan-2-ol)

**Flammability** Flammable

**Explosive Properties** LEL 1.9 Vol%, UEL 13.1 Vol% (1-Methoxypropan-2-ol)

Oxidizing Properties Not available

Vapor Pressure 1.2 kPa at 20°C (1-Methoxypropan-2-ol)

Relative density0.95 - 1.02 at 20°CSolubilityNot availableSolubility in WaterInsoluble

**Viscosity** 4 - 6 mPA \* s at 20°C

**Evaporation Rate** Not available

#### **SECTION 10 – STABILITY AND REACTIVITY**

**Stability** Stable.

**Conditions to Avoid**Rough handling or dropping. Fire or intense heat may cause

violent rupture of packages. Take precautionary measures

against static discharges.

Materials to Avoid Strong acids and bases.

Hazardous Decomposition Products Heating can release vapors which can be ignited. Burning

produces carbon oxides, obnoxious and toxic fumes.

#### **SECTION 11 – TOXICOLOGIAL INFORMATION**

**Acute toxicity** 1-Methoxypropan-2-ol LD<sub>50</sub> 6.6 mg/kg (rat oral)

LD<sub>50</sub> 13 mg/kg (rabbit skin)

Copper compound LD<sub>50</sub> 2 mg/kg (rat oral)

Irritation 1-Methoxypropan-2-ol 500 mg/hr, Slight (rabbit skin)

500 mg/24 hr, Slight (rabbit eye)

Toxicokinetics, metabolism, distribution, sensitization, repeated dose toxicity and CMR no data available. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

### **SECTION 12 - ECOLOGICAL INFORMATION**

No known Ecological Damage. No additional data is available for the mobility, bioaccumulative potential, persistence and degradability.

### **SECTION 13 – DISPOSAL CONSIDERATIONS**

Dispose in a safe manner in accordance to with local and national regulations and avoid release to the environment.

## **SECTION 14 – TRANSPORT INFORMATION**

UN number 1993 Class 3

**Proper shipping name** Flammable Liquid N.O.S. (all colors)

Packaging group

Marine pollutant not marine pollutant

Other applicable information None.

## SECTION 15 – REGULATORY INFORMATION

This product does not contain any ingredients which have been determined to be health hazardous pursuant to U.S. OSHA regulations, and which comprise 1 % or more (0.1 % for carcinogens) of the mixture.

Information shown on the Label ISO 15223-1 & 93/42/EEC

## SECTION 16 - OTHER INFORMATION

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must take independent determinations of the suitability and completeness of information from all other sources to assure proper use and disposal of these materials and the safety and health of employees and customers. VITROMED GmbH shall not be held liable for any damage resulting from handling or from contact with its products.