



# MATERIAL SAFETY DATA SHEET

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## MICROVIS

### SECTION I: IDENTIFICATION OF PRODUCT

**Product Name:** MICROVIS  
**Chemical Family:** Not available  
**WHMIS Classification:** D2A; D213  
**Workplace Hazard:** Potential carcinogen, chronic inhalation hazard, free silica. Skin and eye irritant.

**Product Use:** Viscosifier  
**TDG Classification:** Not applicable  
**Packaging Group:** Not applicable  
**PIN:** Not applicable

### SECTION II: HAZARDOUS INGREDIENTS

Ingredients	Percent	CAS Number	LD <sub>50</sub> (Species/Route)	LC <sub>50</sub> (Species/Route)
Quartz, silica	0.5-1.5	14808-60-7	0.1 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>
Proprietary	80-90		5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Sodium Carbonate	1.0	497-19-8		

### SECTION III: TOXICOLOGICAL PROPERTIES

**Route of entry:**  Skin  Eye Contact  Inhalation  Ingestion

**Effects of acute exposure:** Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation may cause irritation of the nose, throat and respiratory passages. Long-term inhalation may cause silicosis, a progressive disabling and sometimes fatal lung disease. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function.

**Effects of chronic exposure:** Crystalline silica when inhaled in the form of quartz or crystaobalite from occupational sources is carcinogenic to humans (IARC Group 1 – carcinogenic to humans). May cause redness and dermatitis. Prolonged eye contact may cause injury.

**Exposure limits:** Not applicable

**Irritancy of product:** Not determined

**Sensitization to product:** Not determined

**Carcinogenicity:** Not available

**Reproductive toxicity:** Not available

**Teratogenicity:** Not available

**Mutagenicity:** Not known

**Name of toxicological synergistic products:** Not applicable



## SECTION IV: FIRST AID MEASURES

**Skin contact:** May be an irritant. May cause redness and dermatitis.

**Eye contact:** Keep eye wide open while rinsing.

**Inhalation:** Remove to fresh air.

**Ingestion:** Rinse mouth. Drink 1 or 2 glasses of water, if conscious. Consult a physician after significant exposure.

## SECTION V: PHYSICAL DATA

**Physical state:** Solid.

**Appearance and odour:** Solid, grey and odourless.

**Odour threshold:** Not applicable

**Specific gravity (°C):** Not available

**Vapor pressure (mmHG):** Not applicable

**Vapor density (Air=1):** <1

**Evaporation rate:** Not applicable

**Boiling point (°C):** Not applicable

**Freeze/Melting point (°C):** Not applicable

**pH:** Not available

**Co-efficient of water/oil distribution:** Not applicable



## SECTION VI: FIRE AND EXPLOSION DATA

**Conditions of flammability:** Not highly flammable.

**Means of extinguishing:** Use suitable fire-fighting measure for the surrounding fire.

**Flash point:** Not applicable

**Upper flammable limit:** Not applicable

**Lower flammable limit:** Not applicable

**Auto-ignition temperature:** Not applicable

**Hazardous combustion products:** Not applicable

**Explosion data-sensitivity to mechanical impact:** Not applicable

**Explosion data-sensitivity to static discharge:** Not applicable

## SECTION VII: REACTIVITY DATA

**Chemically unstable (conditions):** Stable.

**Product incompatible with:** Not applicable

**Conditions of reactivity:** Not applicable

**Hazardous decomposition products:** Carbon dioxide (CO<sub>2</sub>).



## SECTION VIII: PREVENTATIVE MEASURES

**Personal protective equipment:** If the TLV is exceeded, if use is performed in a poorly ventilated space or area with limited ventilation, use NIOSH-approved dust/mist respirator in accordance with 29 CFR 1910.134. If use is performed in a confined space, use a NIOSH-approved positive-pressure supplied-air respirator in accordance with applicable health and safety regulations. Suggest protective goggles and gloves. Suggest lightweight protective clothing.

**Specific engineering controls:** Local exhaust as needed to control vapour/dust levels to below recommended limits and/or to prevent health and safety effects as indicated in section 3 and elsewhere on the MSDS.

**Procedures for leak/spills:** Use personal protective equipment. Ensure adequate ventilation. Dike or contain spill. Shut off source of leak if safe to do so. Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with applicable federal, state, and local regulations.

**Waste disposal:** Review all local, state and federal regulations concerning health and pollution for appropriate disposal procedures.

**Handling procedures and equipment:** For professional use only. Avoid contact with eyes, skin, and clothing. Avoid breathing vapours/dust/mist. Do not take internally. Ensure adequate ventilation. Wash contact areas after handling. Follow all label and literature procedures and precautions. Handle in accordance with good industrial hygiene and safety practice.

**Storage requirements:** Keep tightly closed. Keep in a dry place. Do not store together with acids. Keep in container with material of paper bag, polyethylene, polypropylene.

**Special shipping information:** Not applicable

## SECTION IX: PREPARATION

**Date updated:** November, 2008

**Prepared by:** Product Safety Committee

All the recommendations and suggestions herein concerning this product are based upon tests and data believed to be reliable, however it is the user's responsibility to determine the safety, toxicity and sustainability for their own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Q'Max Solutions Inc. as to the effects of such use, the results to be obtained, or the safety and toxicity of the product nor does Q'Max Solutions Inc. assume any liability arising out of use by others. Nor is the information herein to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.