

# MATERIALS SAFETY DATA SHEET

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## SECTION 1 – PRODUCT IDENTIFICATION AND USE

**PRODUCT IDENTIFIER:** TECHNOVIT 4004 POWDER  
**PRODUCT USE:** Resin for metallographic testing

11 10 06 & 11 10 07

**DISTRIBUTOR'S NAME:** MICRO STAR 2000 INC.  
**DISTRIBUTOR'S ADDRESS:** 225 Bradwick Drive, Unit 21  
Concord, Ontario  
L4K 1K7

**EMERGENCY PHONE NUMBER:** 905-660-1754

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## SECTION 2 – COMPOSITION / DATA ON COMPONENTS

### CHEMICAL CHARACTERIZATION:

**Description:** Product based on methacrylate copolymers

**Dangerous Components:** N/A

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

**WHMIS:** Not controlled under WHMIS (Canada)

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## SECTION 3 – HAZARD IDENTIFICATION

**HAZARD DESIGNATION:** N/A

### Information pertaining to particular dangers for men and environment:

The product does not have to be labeled due to the calculation procedure of the "General Classification Guideline for preparation of the EU" in the latest valid version.

### Classification system

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

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## SECTION 4 – FIRST AID MEASURES

**GENERAL INFORMATION:** No special measures required.

**SKIN CONTACT:** The product is not skin irritating.

**EYE CONTACT:** Rinse opened eye for several minutes under running water.

**INGESTION:** Initiate vomiting and consult a doctor.

## SECTION 5 – FIRE FIGHTING MEASURES

**SUITABLE EXTINGUISHING AGENTS:** N/A

**PROTECTIVE EQUIPMENT:** No special measures required.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**SAFETY PRECAUTIONS:** Not required.

**MEASURES FOR ENVIRONMENTAL PROTECTION:** No special measures required.

**MEASURES FOR CLEANING/COLLECTING:** Collect mechanically.

**ADDITIONAL INFORMATION:** No dangerous materials are released.

## SECTION 7 – HANDLING AND STORAGE

**HANDLING:** No special measures required.

**STORAGE:** Store cool (not above 25°C).

## SECTION 8 – ENGINEERING CONTROLS / PERSONAL PROTECTION

**ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL SYSTEM:** No further data; see item 7.

### COMPONENTS WITH CRITICAL VALUES THAT REQUIRE MONITORING AT THE WORK PLACE:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**ADDITIONAL INFORMATION:** The lists that were valid during the compilation were used as basis.

### PERSONAL PROTECTIVE EQUIPMENT:

**GENERAL PROTECTIVE HYGIENE MEASURES:** The usual precautionary measures should be adhered to in handling the chemicals.

**RESPIRATORY EQUIPMENT:** Not required.

### SKIN PROTECTION:

The glove material has to be impermeable and resistant to the product / the substance / the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

### MATERIAL OF GLOVES:

PVC 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 cannot 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:** Not absolutely necessary.

**BODY PROTECTION:** Light weight protective clothing.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**General Information:**

**Form:** Powder  
**Color:** Transparent  
**Smell:** Odorless

**Change in Condition:**

**Melting point/Melting range:** Not determined  
**Boiling point/Boiling range:** Not determined

**Flash Point:** Not applicable

**Ignition Temperature:** 400.0°C

**Self-inflammability:** Product is not self-igniting

**Danger of Explosion:** Product is not explosive. However, formation of explosive powder/air mixtures is possible.

**Density at 20 °C:** 0 g/cm<sup>3</sup>

**Solubility in / Miscibility with Water:** Insoluble

**Solvent Content:**

**Organic Solvents:** 0.0%

**Solids Content:** 100.0%

## SECTION 10 – STABILITY AND REACTIVITY

**CONDITIONS TO BE AVOIDED:** No decomposition if used and stored according to specifications.

**DANGEROUS COMPONENTS:** No dangerous reactions known.

**DANGEROUS PRODUCTS OF COMPOSITION:** None

## SECTION 11 – TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:****PRIMARY IRRITANT EFFECTS:**

**SKIN:** No irritant effect.

**EYES:** No irritant effect.

**SENSITIZATION:** No sensitizing affect known.

**ADDITIONAL INFORMATION:**

The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparation as issued in the latest version.  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided.

## SECTION 12 – ECOLOGICAL INFORMATION

**GENERAL NOTES:** Water hazard class 1 (calculated according to VwVwS): Slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.  
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values.  
A low pH-value harms aquatic organisms. In the dilutions of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

## SECTION 13 – DISPOSAL CONSIDERATION

**ENVIRONMENTAL TOXICITY DATA:** See regulatory information below.

**WASTE DISPOSAL METHOD:** In accordance with all local, state, and federal regulations.

**CONTAINER DISPOSAL:** In accordance with all local, state, and federal regulations.

## SECTION 14 – TRANSPORT INFORMATION

### Land Transport

**ADR/RID-GGVS/E Class:** - Not a hazardous material within the meaning of transport regulations.

### Air Transport ICAO-TI and IATA-DGR:

**ICAO/IATA Class:** - Not a hazardous material within the meaning of transport regulations.

## SECTION 15 – REGULATORY INFORMATION

### DESIGNATION ACCORDING TO EC GUIDELINES:

Observe the normal safety regulations when handling chemicals.  
The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).  
The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparation of the EC" as issued in the last version.

### NATIONAL REGULATIONS:

**Water hazard class:** Water hazard class 1 (calculated according to VwVwS): Slightly hazardous for water.

## SECTION 16 – OTHER INFORMATION

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

## SECTION 17 – PREPARATION OF MATERIAL SAFETY DATA SHEET

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