

SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER: MICROTEC P20 POWDER 11 10 15 & 11 10 45
PRODUCT USE: Resin for Metallographic Testing

DISTRIBUTOR'S NAME: MICRO STAR 2000 INC. **EMERGENCY PHONE NUMBER:** 905-660-1754
DISTRIBUTOR'S ADDRESS: 225 Bradwick Drive, Unit 21
Concord, Ontario
L4K 1K7

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION:
Acrylic polymer on the basis of methyl methacrylate

HAZARDOUS INGREDIENTS:

di benzoyl peroxide		
CAS number	94-36-0	< 1% (no obligation for labeling)
Hazard symbols	Xi, E	
R-phrases	2, 7, 36, 43 / 2,36,43	

WHMIS: Not controlled under WHMIS (Canada)

SECTION 3 – HAZARD IDENTIFICATION

HAZARD DESIGNATION:
Xi Irritant

Information pertaining to particular dangers for man and environment:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 43 May cause sensitization by skin contact.

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.

SECTION 4 – FIRST AID MEASURES

GENERAL INFORMATION: Remove soiled, soaked clothing immediately.
Medical treatment is necessary, if symptoms occur which are obviously caused by skin or eye contact with the product.

SKIN CONTACT: Instantly wash with water and soap and rinse thoroughly. If skin irritation occurs, seek medical attention.

EYE CONTACT: Rinse opened eye for several minutes under running water and seek medical advise.

INGESTION: Initiate vomiting and consult a doctor.

SECTION 5 – FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING AGENTS: CO₂, extinguishing dry powder or water jet spray. Fight larger fires with water jet or alcohol-resistant foam.

FOR SAFETY REASONS UNSUITABLE EXTINGUISHING AGENTS: Full water jet

**SPECIAL HAZARDS CAUSED BY THE MATERIAL,
ITS PRODUCTS OF COMBUSTION OR THE FLUE GASES:** Formation of toxic gases is possible during heating or in case of fire.

PROTECTIVE EQUIPMENT: No special measures required.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION: Not required.

ENVIRONMENTAL PRECAUTIONS: No special measures required.

CLEANING METHODS: Absorb mechanically. Dispose of in accordance with regulations.

SECTION 7 – HANDLING AND STORAGE

HANDLING: Avoid dust formation.

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

EXPLOSION AND FIRES: Take precautionary measures against static discharges. In the event of fire, cool the endangered product with water.

SECTION 8 – ENGINEERING CONTROLS / PERSONAL PROTECTION

Components with critical values that require monitoring at the work place:

TLV (short term)- value for:

CAS number	80-62-6		
Methyl methacrylate	510 mg/m ³	125 ml/m ³	(1989)

TLV (long term)- value for:

CAS number	80-62-8		
Methyl methacrylate	410 mg/m ³	100 ml/m ³	(1989)

TLV (long term)- value for

CASE number	94-36-0		
Dibenzoyl peroxide	5 mg/m ³		(1989)

PERSONAL PROTECTIVE EQUIPMENT

GENERAL PROTECTIVE AND HYGIENIC MEASURES: Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Do not inhale dust.

INHALATION PROTECTION: Not required.

SKIN PROTECTION: protective gloves are recommended to avoid possible sensitization .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: 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.

FOR THE PERMANENT CONTACT IN WORK AREAS WITHOUT HEIGHTENED RISK OF INJURY

(e.g. LABORATORY) GLOVES MADE OF THE FOLLOWING MATERIAL ARE SUITABLE: Butyl rubber, BR
Fluorocarbon rubber (Viton)
Nitrile rubber, NBR
Natural rubber, NR
Chloroprene rubber, CR

FOR THE PERMANENT CONTACT OF MAXIMUM MINUTES

GLOVES MADE OF THE FOLLOWING MATERIALS ARE SUITABLE: PVC or PE gloves.

EYE PROTECTION: Goggles

BODY PROTECTION: Light weight protective clothing.

RESPIRATORY PROTECTION: Filtering half mask in case of dust formation

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**APPEARANCE:**

Form	Powder
Colour	White
Smell	Odourless

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined
Softening temperature:	Approx. 102 C
Flash Point:	Method ATTM-D 1929-68 > 250 C
Ignition Temperature:	Method ASTM-D 1929-68 >400 C
Self-inflammability:	Product is not selfigniting
Danger of explosion:	Product is not explosive
Density:	1.16 G/CM3 at 20C
Bulk density:	600 to 650 g/cm3
Solubility in / Miscibility with Water:	Insoluble
Solubility / qualitative:	in eg. ester, ketones, and chlorinated hydrocarbons, readily soluble
Organic Solvents:	0.0
Water:	0.1%
Solids content:	99.9%
Further information:	Dust explosions are generally to be expected with dust-forming organic products.

SECTION 10 – STABILITY AND REACTIVITY

THERMAL DECOMPOSITION:	>250
CONDITIONS TO AVOID:	No decomposition if used and stored according to specifications.
HAZARDOUS REACTIONS:	No dangerous reactions known.
HAZARDOUS PRODUCTS OF COMPOSITION:	None when used as directed. During thermal decomposition combustible, the eyes and respiratory system irritating vapour are formed, consisting mainly of methyl methacrylate.

SECTION 11 – TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY:	There are no toxicological data available for this product.
CARCINOGENICITY:	The substance shows tumor promoting properties in animal tests. The data mentioned above refer to the component debenzoyl peroxide.
PRIMARY IRRITANT EFFECTS:	
SKIN:	May cause irritation
EYES:	May cause irritation
MUCOUS MEMBRANES:	May cause irritation
SENSITIZATION:	Sensitization possible by skin contact.
ADDITIONAL INFORMATION :	The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparation as issued in the latest version: Irritant.

SECTION 12 – ECOLOGICAL INFORMATION

GENERAL NOTES:	Water hazard class 1 (calculated according to VwVwS): Slightly hazardous for water and soil. Do not allow undiluted product or large quantities of it to reach ground water, water bodies, sewage system or soil.
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SECTION 13 – DISPOSAL CONSIDERATIONS

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:

The product has been classified and labeled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV).

Code letter and hazard designation of product:

Xi irritant

Hazard-determining components of labeling:

Benzoyl peroxide

Risk Phrases:

43 May cause sensitization by skin contact.

Safety Phrases:

24 Avoid contact with skin.
25 37 Wear suitable gloves.

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.

Relevant R-phrases:

2 Risk of explosion by shock, friction, fire or other sources of ignition.
36 Irritating to eyes.
43 May cause sensitization by skin contact.

SECTION 17 – PREPARATION OF SAFETY DATA SHEET

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