

SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER: RESINYL G 11 20 10 / 11 20 14 CAS NUMBER: N/A (all components are TSCA listed)
PRODUCT USE: Embedding Medium for Metallographic Use

CHEMICAL NAME: NA (mixture)
CHEMICAL FAMILY: Diallyl Phthalate Molding Compound

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

<u>CHEMICAL NAME</u>	<u>CAS NO.</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Diallyl Phthalate Polymer	25053-15-0	<40	NE	NE
Polyester Resin (respirable nuisance dust)	N/A	<4	5 mg/m ³	10 mg/m ³
Peroxide, bis(1-methyl-1-phenylethyl)	80-43-3	<2	NE	NE
Calcium Silicate (respirable nuisance dust)	13983-17-0	<15	5 mg/m ³	10 mg/m ³
Amorphous Silica (respirable nuisance dust)	61790-53-2	<1.5	5 mg/m ³	2 mg/m ³
Glass Fibre (respirable nuisance dust)	65997-17-3	<40	5 mg/m ³	10 mg/m ³
Alumina Trihydrate (respirable nuisance dust)	21645-51-2	<10	5 mg/m ³	5 mg/m ³
Calcium Stearate (respirable nuisance dust)	1592-23-0	<2	5 mg/m ³	5 mg/m ³
Antimony Trioxide	1309-64-4	<3	0.5 mg/m ³	0.5 mg/m ³
Bis (tetrabromophthalimido) (respirable nuisance dust)	32588-76-4	<5	5 mg/m ³	10 mg/m ³

The remaining ingredients are not hazardous as defined in OSHA's Hazard Communication Standard 29 CFR 1910.1200.

* See Sections 3 and 11

SECTION 3 – HAZARDS IDENTIFICATION

EFFECTS OF OVEREXPOSURE: Inhalation of dust may cause irritation of the nose and throat. Irritation to the eyes upon contact. Irritation of the skin upon prolonged and repeated exposure. Glass fiber and mineral components are considered mechanical irritants and nuisance dust.

*Antimony oxide is considered to be a suspect carcinogen by at least one of the following agencies: ACGIH, OSHA, NTP, and IARC. Two preliminary chronic inhalation studies have found an increase in benign and malignant tumors in rats exposed to concentrations of 4.2 and 50 mg/m³, 7 hours per day, 5 days per week for 12 months.

INHALATION: Dusts and vapors may cause irritation of the respiratory tract.

EYE CONTACT: Dusts and vapors may cause irritation.

SKIN CONTACT: May cause irritation and/or allergic reactions in sensitized individuals.

INGESTION: None known.

CHRONIC: Yes

SECTION 4 – FIRST AID MEASURES

- INHALATION:** Remove to fresh air. If respiration stops, apply appropriate emergency resuscitation techniques. Get medical attention.
- EYE CONTACT:** Flush eyes with water for at least 15 minutes. Call a physician if irritation persists.
- SKIN CONTACT:** Wash with soap and water at first opportunity. See physician if irritation persists.
- INGESTION:** If accidentally swallowed, dilute by drinking large quantities of water. Immediately contact poison control center or hospital emergency room for any other treatment directions.
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SECTION 5 – FIRE FIGHTING MEASURES

- FLASH POINT:** NA NE LEL NE UEL
- METHOD USED:** NA
- AUTOIGNITION TEMPERATURE:** Not known
- EXTINGUISHING MEDIA:** Water Fog, Foam, CO₂, Dry Chemical
- SPECIAL FIRE FIGHTING PROCEDURES:** Firefighters should be equipped with a self-contained breathing apparatus as decomposition in a fire may produce toxic fumes.
- UNUSUAL FIRE AND EXPLOSION HAZARDS:** CAUTION: high concentration of airborne dust may form an explosive mixture with air. Ensure that good housekeeping practices are followed, as well as applicable guidelines such as National Fire Protection Association (NFPA) 654, "Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids."
- HAZARDOUS DECOMPOSITION PRODUCTS:** May include: aromatic hydrocarbons, carbon monoxide, carbon dioxide, hydrogen bromide, bromine, antimony bromides, particulate matter, and other organic compounds.
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SECTION 6 – ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS:** Avoid breathing dust and vapors. PPE should be appropriate for the situation.
- ENVIRONMENTAL PRECAUTIONS:** None needed.
- CLEANING METHODS:** Sweep or vacuum spills. To minimize dust, vacuum cleaning is preferred.
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SECTION 7 – HANDLING AND STORAGE

- HANDLING:** Avoid breathing fumes from molding or other processes involving heat. Avoid breathing dusts from cutting, machining or deflashing operations. Guard against dust accumulation of this material. High concentrations of airborne dust may form explosive mixture with air. As with all chemicals, good industrial hygiene practices should be followed when handling this material.
- STORAGE:** Keep container closed and sealed when not in use. Store in a cool, dry place below 25°C.
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SECTION 8 – ENGINEERING CONTROLS / PERSONAL PROTECTION

VENTILATION

- LOCAL:** At points of emission to maintain exposure below regulatory action levels.
- GENERAL:** Ventilation should be sufficient to effectively remove and prevent buildup of any vapors, dusts, or fumes that may be generated during handling or thermal processing.

PERSONAL PROTECTION:

- HAND:** Impervious gloves should be worn to prevent skin contact (neoprene, latex, rubber, milled nitrile, and butyl).
- EYE:** Wear safety glasses with side shields.
- SKIN:** Wear appropriate protective clothing to minimize skin contact.
- OTHER:** Use MSHA/NIOSH approved respiratory protection if level of air contaminants exceeds action levels set by OSHA.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Green colored granules
ODOR:	Mild and characteristic
PHYSICAL STATE:	Solid
BOILING POINT:	NA
MELTING POINT:	NE
FREEZING POINT:	NE
WATER SOLUBILITY:	Negligible
VAPOR PRESSURE:	NA
SPECIFIC GRAVITY:	1.80 – 1.90 g/cm ³
PARTITION COEFFICIENT:	N/A
EXPLOSIVE PROPERTIES:	Mixtures of fine dust and air can create an explosion hazard.
EVAPORATION RATE:	N/A
DENSITY:	1.80 – 1.90 g/cm ³
VISCOSITY:	NA
IGNITION:	NE
pH:	NA

SECTION 10 – STABILITY AND REACTIVITY

- CHEMICAL STABILITY:** Stable
- CONDITIONS TO AVOID:** High temperatures.
- MATERIALS TO AVOID:** Strong oxidizing agents, strong acids.
- HAZARDOUS POLYMERIZATION:** Does not occur.
- HAZARDOUS DECOMPOSITION PRODUCTS:** May occur during fire or at very high temperatures (see Section IV for hazardous decomposition products).

SECTION 11 – TOXICOLOGICAL INFORMATION

CARCINOGENIC HAZARDS: Antimony oxide is listed under California's Proposition 65 as a carcinomaogen

REPRODUCTIVE HAZARDS: None known.

SECTION 12 – ECOLOGICAL INFORMATION

Based on current information, there are no special regulations.

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

DOT SHIPPING NAME: Not regulated.
DOT HAZARD CLASSIFICATION: Non-hazardous.
PACKAGING GROUP: Not regulated.
UN/NA CODE: Not regulated.

SECTION 15 – REGULATORY INFORMATION

TSCA (*Toxic Substances Control Act*): All ingredients are TSCA listed.

CERCLA (*Comprehensive Emergency Response, Compensation, and Liability Act*): None.

SARA TITLE III (*Superfund Amendments and Reauthorization Act*): Decabromodiphenyloxide

311/312 HAZARD CATEGORIES: Release of antimony oxide and decabromodiphenyloxide may require reporting depending on the amount of compound used.

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:

<u>CAS #</u>	<u>CHEMICAL NAME</u>	<u>PERCENT BY WEIGHT</u>
1309-64-4	Antimony Oxide	<3

SECTION 16 – OTHER INFORMATION

NA = Not applicable
NE = Not established

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the result to be obtained from the use thereof.

Micro Star 2000 Inc. assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material.

SECTION 17 – PREPARATION OF SAFETY DATA SHEET

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