

# MATERIAL SAFETY DATA SHEET

## SECTION I

CHEMICAL NAME: Methyl Methacrylate Monomer  
PRODUCT NAME: Excel Formula Auto-Cure Orthodontic Material (Liquid) CAS Reg. No.: 80-62-6  
FORMULA: Proprietary Mixture  
MANUFACTURER: St. George Technology, Inc.  
ADDRESS: P.O. Box 2849, Wilmington, North Carolina 28402-2849  
FOR INFORMATION CALL: 910-397-0781  
DATE: January 2011

## SECTION II — HAZARDOUS INGREDIENTS OF MIXTURES

PRINCIPAL HAZARDOUS COMPONENT(S): Methyl Methacrylate Monomer %TLV (UNITS) 100ppm

## SECTION III — PHYSICAL DATA

BOILING POINT: DEG. C. /MM HG. 100/760 SPECIFIC GRAVITY (H<sub>2</sub>O=1): -1  
PERCENT VOLATILE W/W% 100% VAPOUR DENSITY (AIR=1) +1  
EVAPORATION RATE (BuAc=1): +1  
SOLUBILITY IN WATER: Slightly soluble  
APPEARANCE AND ODOUR: Colourless or pink liquid with characteristic odour.

## SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLASH POINT, TAG CLOSED, DEG.C: 8 FLAMMABLE LIMIT, AIR VOL% LOWER: 1.5  
AUTOIGNITION TEMPERATURE, DEG.C 430 UPPER: 12  
EXTINGUISHER METHOD: Foam/Dry Powder/Carbon Dioxide  
SPECIAL FIRE FIGHTING PROCEDURES: Wear breathing apparatus.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: Take precautionary measures against static discharge.  
U.N. HAZARD CLASSIFICATION NO.: 3.2/1247

## SECTION V — HEALTH HAZARD DATA

THRESHOLD LIMIT (TLV): 100 ppm  
EFFECTS OF OVER EXPOSURE: Irritating to eyes, respiratory system & skin - may cause sensitization by skin contact. Vapour has strong narcotic effect resembling alcohol.

### Emergency and First Aid Procedures:

INHALATION: Remove from exposure to fresh air - seek medical advice if recovery is not rapid.  
EYES: Irrigate with water for 10 minutes - seek medical attention.  
SKIN: Wash thoroughly with soap and water - seek medical advice if irritation develops.  
INGESTION: Wash mouth with water - do not induce vomiting - seek medical advice.

## SECTION VI — REACTIVITY DATA

STABILITY: Stable  
CONDITIONS: Prolonged exposure to elevated temperatures which can cause premature polymerisation and release methyl methacrylate vapour.  
COMPATABILITY (MATERIALS TO AVOID): Organic peroxides, reducing agents, metallic Redox systems.  
HAZARDOUS DECOMPOSITION PRODUCTS: Methyl Methacrylate vapour.  
HAZARDOUS POLYMERIZATION: May occur.  
CONDITIONS TO AVOID: Elevated temperatures - above 35°C (95°F).

## SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb on inert material (sand).  
Transfer to suitable container for disposal. Wash site of spillage with detergent.  
WASTE DISPOSAL METHOD: Do not empty into drains - incinerate under controlled conditions or landfill absorbed material according to local, State and Federal regulations.

## SECTION VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): Only use in well ventilated area. Use breathing apparatus in event of spillage.  
VENTILATION: Good ventilation essential.  
PROTECTIVE GLOVES: Nitrile/polyethylene. Do not use cotton gloves.  
EYE PROTECTION: Full safety spectacles.  
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Protective polyethylene apron. Good standards of personal hygiene essential.

## SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store between 16-26°C (69-79°F) in well ventilated area. Avoid elevated temperatures. Protect from damp conditions.  
OTHER PRECAUTIONS: Keep away from sources of ignition. Do not ship by mail. No smoking. Irritant and highly flammable. Product for professional use only.

# MATERIAL SAFETY DATA SHEET

## SECTION I

CHEMICAL NAME: Methyl Methacrylate Copolymer  
PRODUCT NAME: Excel Formula Auto-Cure Orthodontic Material (Powder)  
CAS Reg. No.: 9011-14-7  
FORMULA: Proprietary Mixture  
MANUFACTURER: St. George Technology, Inc.  
ADDRESS: P.O. Box 2849, Wilmington, North Carolina 28402-2849  
FOR INFORMATION CALL: 910-397-0781  
DATE: January 2011

## SECTION II — HAZARDOUS INGREDIENTS OF MIXTURES

PRINCIPAL HAZARDOUS COMPONENT(S): Non-hazardous

## SECTION III — PHYSICAL DATA

SPECIFIC GRAVITY (H<sub>2</sub>O=1): -1  
SOLUBILITY IN WATER: Insoluble  
APPEARANCE AND ODOUR: Clear powder with slight odour

## SECTION IV — FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHER METHOD: Foam/Dry Powder/Carbon Dioxide  
SPECIAL FIRE FIGHTING PROCEDURES: Wear breathing apparatus.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustible producing noxious fumes. Can cause dust explosion (limit 20g/m<sup>3</sup>).

## SECTION V — HEALTH HAZARD DATA

### Emergency and First Aid Procedures:

INHALATION: Remove from dust.  
EYES: Irrigate with water for 10 minutes - seek medical attention.  
SKIN: Wash with soap and water.  
INGESTION: Drink water.

## SECTION VI — REACTIVITY DATA

STABILITY: Stable  
COMPATIBILITY (MATERIALS TO AVOID): None

## SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Sweep up and wash area thoroughly.  
WASTE DISPOSAL METHOD: No special precautions.

## SECTION VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): Dust mask  
VENTILATION: Local  
PROTECTIVE GLOVES: Yes  
EYE PROTECTION: Yes  
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Good standards of p January 2011

## SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in cool dry place.  
OTHER PRECAUTIONS: Avoid spillage on hard floors - may be a slip hazard.

Product For Professional Use Only.

Code StG1001