

SAFETY DATA SHEETS

This SDS packet was issued with item:

071098102

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

071098086

SECTION 1: IDENTIFICATION OF PRODUCT

FORMULA: CROSSLINKED, FAST POLYMERIZING, METHYL METHACRYLATE MONOMER.

SYNONYM OR CROSS REFERENCE: **CUSTOM TRAY ACRYLIC MONOMER****AMERICAN DENTAL SUPPLY, INC.**1075 N. Gilmore Street
Allentown, PA 18109-3210
www.americandentalsupply.net
(800) 558-5925**MATERIAL
SAFETY
DATA****NFPA RATINGS**HEALTH HAZARD: 2
FIRE & EXPLOSION: 3
REACTIVITY: 1
PROTECTION: B**SECTION 2: HAZARDOUS INGREDIENTS**

MATERIAL: METHYL METHACRYLATE > 85%, CAS NO. 80-62-6; ALKYL DIMETHACRYLATE < 15%; AROMATIC AMINE ACCELERATOR < 1%; POLYMERIZATION INHIBITOR HQ APPROX 100 PPM

NATURE OF HAZARD: FLAMMABLE LIQUID, MODERATE HEALTH HAZARD, SENSITIZER.

DOT CLASSIFICATION (> 1 LITER): METHYL METHACRYLATE INH., UN 1247, CLASS 3, PG II.

SECTION 3: PHYSICAL DATAMELTING POINT: N.A.
BOILING POINT: 214° F
VAPOR PRESSURE: 29 mm Hg.
SPECIFIC GRAVITY: (H2O = 1) 0.94 @ 68° F.
VAPOR DENSITY: (air = 1) 3.5 @ 68° F.
WATER SOLUBILITY: 1.6 GM/100 GM.
PH OF SOLUTION: N.A.
PERCENT VOLATILE: 100 WT %.
EVAPORATION RATE: 3 (BUTYL ACETATE = 1.0).
APPEARANCE: COLORLESS TO PALE YELLOW LIQUID, CHARACTERISTIC STRONG ACRID ODOR.**SECTION 4: FIRE AND EXPLOSION HAZARD DATA**FLASH POINT (method used): 10° C. (TCC).
FLAMMABLE LIMITS: (% by Vol). LEL: 1.8, UEL: 8.2.FIRE EXTINGUISHING MEDIA: DRY CHEMICAL, CO₂.

SPECIAL FIRE FIGHTING PROCEDURES: NONE FOR LAB QUANTITIES. WEAR SELF CONTAINED BREATHING APPARATUS. KEEP CONTAINERS COOL.

UNUSUAL FIRE AND EXPLOSION HAZARD: FLAMMABLE LIQUID. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO IGNITION SOURCE AND FLASH BACK. SEALED CONTAINERS MAY RUPTURE IF HEATED. SPONTANEOUS POLYMERIZATION ON LONG STORAGE OR HEATING

SECTION 5: HEALTH HAZARD

THRESHOLD LIMIT VALUE: TLV (ACGIH): 100 PPM. (MAJOR INGREDIENT); ACUTE ORAL INGESTION: RAT 7990 MG/KG.

HEALTH HAZARDS: Effects of overexposure to product.

Skin: SHORT TERM CONTACT MAY CAUSE DRYING AND WHITENING OF SKIN.
POTENTIAL SKIN SENSITIZER. CHRONIC CONTACT MAY CAUSE ALLERGIC SKIN RASH, ITCHING, SWELLING.

Eyes: CONTACT WITH LIQUID OR HIGH CONCENTRATIONS OF VAPOR MAY CAUSE IRRITATION OR CORNEAL INJURY.

Inhalation: OVEREXPOSURE MAY CAUSE EYE, NOSE AND THROAT IRRITATION. MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS DIZZINESS, HEADACHE, NAUSEA, DROWSINESS OR FATIGUE. MAY CAUSE INCREASE OF PRE-EXISTING ASTHMATIC SYMPTOMS.

Ingestion: MAY CAUSE IRRITATION TO GASTROINTESTINAL TRACT AND CNS EFFECTS. CHRONIC AND PROLONGED OVEREXPOSURE CAN CAUSE LIVER AND KIDNEY DAMAGE.

FIRST AID PROCEDURES:

Skin: IN CASE OF IRRITATION, WASH WELL WITH SOAP AND WATER. IF IRRITATION PERSISTS, CONTACT A PHYSICIAN.

Eyes: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN IF IRRITATION PERSISTS.

Inhalation: IF AFFECTED, REMOVE TO FRESH AIR. IF SYMPTOMS PERSIST, CONTACT A PHYSICIAN.

Ingestion: DO NOT INDUCE VOMITING. GIVE TWO GLASSES OF WATER TO DILUTE AND GET PROMPT MEDICAL ATTENTION.

CARCINOGENICITY: NO INGREDIENT IDENTIFIED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY NTP, IARC OR OSHA.

SECTION 6: REACTIVITY DATA

STABILITY: STABLE.

CONDITIONS TO AVOID: HEAT AND IGNITION SOURCES. CONTAMINATION.

INCOMPATIBILITY (MATERIALS TO AVOID): REDUCING AND OXIDIZING AGENTS. METHYL METHACRYLATE POLYMER POWDERS. MATERIAL HAS STRONG SOLVENT PROPERTIES AND CAN

HAZARDOUS DECOMPOSITION PRODUCTS: Gases produced are CO, CO₂, smoke.

HAZARDOUS POLYMERIZATION: CAN OCCUR. CONDITIONS LEADING TO POLYMERIZATION ARE EXCESSIVE HEAT, STORAGE IN ABSENCE OF INHIBITOR; INADVERTENT ADDITION OF CATALYST.

SECTION 7: SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT DURING CLEAN UP. THOROUGHLY VENTILATE AREA. REMOVE SOURCES OF IGNITION. PREVENT EXCESSIVE SKIN CONTACT AND BREATHING OF VAPOR.

WASTE DISPOSAL METHOD:

CLEAN UP WITH ABSORBANT MATERIAL. EVAPORATE IN HOOD OR DISPOSE OF IN APPROVED METAL WASTE CANS.

SECTION 8: PROTECTION INFORMATION

VENTILATION: LOCAL EXHAUST PREFERRED. PROVIDE SUFFICIENT VENTILATION TO KEEP AIRBORNE LEVELS BELOW 100 PPM.

SKIN: IMPERVIOUS GLOVES (NEOPRENE, NITRILE).

EYES: CHEMICAL SPLASH GOGGLES ARE PREFERRED. DO NOT WEAR CONTACT LENSES WHEN HANDLING CHEMICALS.

RESPIRATORY: NONE REQUIRED IN NORMAL USE. IF TLV IS REGULARLY EXCEEDED, WEAR NIOSH APPROVED RESPIRATOR FOR ORGANIC VAPORS.

OTHER PROTECTIVE EQUIPMENT: EYE-WASH STATION.

SECTION 9: HANDLING AND STORAGE (lab quantities)

KEEP CONTAINERS WELL CLOSED. STORE IN COOL, DRY, WELL VENTILATED AREA AND SEPARATED FROM ACRYLIC POLYMER POWDERS. FOR LABORATORY OR PROFESSIONAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. AVOID HEAT AND DIRECT SUNLIGHT. NORMAL PRECAUTIONS OF LABORATORY GOOD HOUSEKEEPING PRACTICES SHOULD BE FOLLOWED.

SECTION 10: MISCELLANEOUS INFORMATION

REGULATIONS RELATED TO HANDLING AND STORAGE OF FLAMMABLE LIQUIDS SHOULD BE FOLLOWED. PERMIT AIR SPACE TO EXIST INSIDE STORAGE CONTAINERS. STORE SEPARATELY FROM ACRYLIC POLYMER POWDERS AND POLYMERIZATION CATALYSTS.

EMERGENCY RESPONSE: INFOTRAC: 1-800-535-5053

SALES INFORMATION: 1-800-558-5925 (8 AM TO 6 PM EST, MONDAY TO FRIDAY)

Revision Date: 3/1/2013

Information Furnished By: L. D. Hochhauser
Product Development Mgr.

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SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF PRODUCT

PRODUCT NAME: **CUSTOM TRAY ACRYLIC MONOMER**

APPLICATION: CROSSLINKED, FAST POLYMERIZING, METHYL METHACRYLATE MONOMER.

EMERGENCY CONTACT: **INFOTRAC: 1-352-323-3500, TOLL-FREE 1-800-535-5053**

SECTION 2: HAZARDS IDENTIFICATION (CLASSIFICATION)

DANGER: FLAMMABLE LIQUID, MODERATE HEALTH HAZARD, SENSITIZER.

DOT CLASSIFICATION (IF > 1 LITER): METHYL METHACRYLATE INH., UN 1247, CLASS 3, PG II.



SECTION 2A: PHYSICAL HAZARDS

H225: HIGHLY FLAMMABLE LIQUID AND VAPOUR. CATEGORY 2: **P303+361+353, P370+378**

SECTION 2B: HEALTH HAZARDS

THRESHOLD LIMIT VALUE: TLV (ACGIH): 100 PPM. (MAJOR INGREDIENT); ACUTE ORAL INGESTION: RAT 7990 MG/KG.
H315: CAUSES SKIN IRRITATION. CATEGORY 2:

SKIN: H315: CAUSES SKIN IRRITATION. CATEGORY 2:
H317: MAY CAUSE AN ALLERGIC SKIN REACTION. CATEGORY 1:

EYES: H319: CAUSES SERIOUS EYE IRRITATION. CATEGORY 2A:

INHALATION: H332: HARMFUL IF INHALED. CATEGORY 4:

INGESTION: H305: MAY BE HARMFUL IF SWALLOWED AND ENTERS AIRWAYS. CATEGORY 2: H373: MAY CAUSE DAMAGE TO LIVER AND KIDNEYS THROUGH PROLONGED OR REPEATED EXPOSURE. CATEGORY 2.

CARCINOGENICITY: NO INGREDIENT IDENTIFIED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY NTP, IARC OR OSHA.

SECTION 3: COMPOSITION / INGREDIENTS

MIXTURE: ☒ Yes ☐ No

METHYL METHACRYLATE > 85%, CAS NO. 80-62-6:

ALKYL DIMETHACRYLATE < 15%;

AROMATIC AMINE ACCELERATOR < 1%;

POLYMERIZATION INHIBITOR HQ APPROX 100 PPM

FORMULA IS PROPRIETARY.

SECTION 4: FIRST AID MEASURES

SKIN: P264: WASH THOROUGHLY AFTER HANDLING. P302+352: IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER.
P332+313: IF SKIN IRRITATION OCCURS: CONTACT A POISON CENTER OR DOCTOR/PHYSICIAN. P362: TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

EYES: P305+351+338: IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES IF PRESENT AND EASY TO DO. CONTINUE RINSING. P337+313: IF EYE IRRITATION PERSISTS GET MEDICAL ADVICE/ATTENTION.

INHALATION: P261: AVOID BREATHING VAPOURS. P304+340: IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. P342+311: IF EXPERIENCING RESPIRATORY SYMPTOMS: CALL A POISON CENTER OR DOCTOR/PHYSICIAN.

INGESTION: P261: AVOID BREATHING VAPOURS. P301+330+331: IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING. GIVE TWO GLASSES OF WATER TO DILUTE. P310: IMMEDIATELY CALL A POISON CENTER/PHYSICIAN.

SECTION 5: FIREFIGHTING MEASURES

FLASH POINT: 10° C. (TCC).

FLAMMABLE LIMITS: (% by Vol). LEL: 1.8, UEL: 8.2.

FIRE EXTINGUISHING MEDIA: DRY CHEMICAL, CO₂.

SPECIAL FIRE FIGHTING PROCEDURES: NONE FOR LAB QUANTITIES. WEAR SELF CONTAINED BREATHING APPARATUS. KEEP CONTAINERS COOL.

UNUSUAL FIRE AND EXPLOSION HAZARD: FLAMMABLE LIQUID. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO IGNITION SOURCE AND FLASH BACK. SEALED CONTAINERS MAY RUPTURE IF HEATED. SPONTANEOUS POLYMERIZATION ON LONG STORAGE OR HEATING CAN CAUSE RAPID RELEASE OF ENERGY.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PRECAUTIONS: KEEP CONTAINERS CLOSED. P270: DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. P210: KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES – NO SMOKING

PROCEDURES: USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT DURING CLEAN UP. THOROUGHLY VENTILATE AREA. REMOVE SOURCES OF IGNITION. PREVENT EXCESSIVE SKIN CONTACT AND BREATHING OF VAPOR.

SECTION 7: HANDLING AND STORAGE (LAB QUANTITIES)

P102: KEEP OUT OF REACH OF CHILDREN. P402+404: STORE IN A DRY PLACE. STORE IN A CLOSED CONTAINER. P403+235+410: STORE IN A WELL VENTILATED PLACE. KEEP COOL. PROTECT FROM SUNLIGHT. FOR LABORATORY OR OFFICE USE ONLY. DO NOT MIX WITH OTHER MATERIALS UNLESS DIRECTED TO DO SO. NORMAL PRECAUTIONS OF LABORATORY GOOD HOUSEKEEPING PRACTICES SHOULD BE FOLLOWED. DO NOT CONTAMINATE WITH ACRYLIC POLYMERS.

SECTION 8: EXPOSURE CONTROLS (PERSONAL PROTECTION)

VENTILATION: LOCAL EXHAUST PREFERRED. PROVIDE SUFFICIENT VENTILATION TO KEEP AIRBORNE LEVELS BELOW 100 PPM. P241: USE EXPLOSION-PROOF ELECTRICAL/VENTILATING EQUIPMENT.

SKIN: P281: USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. NITRILE OR RUBBER IMPERMEABLE GLOVES.

EYES: P281: USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. SAFETY GLASSES OR GOGGLES. DO NOT WEAR CONTACT LENSES WHEN HANDLING CHEMICALS.

RESPIRATORY: LOCAL EXHAUST PREFERRED. P281: USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. WEAR NIOSH APPROVED RESPIRATOR.

OTHER: EYE WASH STATION

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: COLORLESS LIQUID, CHARACTERISTIC STRONG ACRID ODOR.

PH OF SOLUTION: N.A.

MELTING POINT: N.A.

BOILING POINT: 214° F

SPECIFIC GRAVITY: (H₂O = 1) 0.94 @ 68° F.

EVAPORATION RATE: 3 (BUTYL ACETATE = 1.0).

VAPOR DENSITY: (air = 1) 3.5 @ 68° F.

PERCENT VOLATILE: 100 WT %.

VAPOR PRESSURE: 29 mm Hg.

WATER SOLUBILITY: 1.6 GM/100 GM.

SECTION 10: REACTIVITY DATA

STABILITY: STABLE.

CONDITIONS TO AVOID: HEAT AND IGNITION SOURCES. CONTAMINATION.
INCOMPATIBILITY (MATERIALS TO AVOID): REDUCING AND OXIDIZING AGENTS. METHYL METHACRYLATE POLYMER POWDERS. MATERIAL HAS STRONG SOLVENT PROPERTIES AND CAN SOFTEN PAINT OR RUBBER.
HAZARDOUS DECOMPOSITION PRODUCTS: GASES PRODUCED ARE CO, CO₂, SMOKE.
HAZARDOUS POLYMERIZATION: CAN OCCUR. CONDITIONS LEADING TO POLYMERIZATION ARE EXCESSIVE HEAT, STORAGE IN ABSENCE OF INHIBITOR; INADVERTENT ADDITION OF CATALYST.
REACTIVITY WITH WATER: N/A

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE EXPOSURE: SIGNS AND SYMPTOMS:

SKIN: SHORT TERM CONTACT MAY CAUSE DRYING AND WHITENING OF SKIN.

POTENTIAL SKIN SENSITIZER. CHRONIC CONTACT MAY CAUSE ALLERGIC SKIN RASH, ITCHING, SWELLING.

EYES: CONTACT WITH LIQUID OR HIGH CONCENTRATIONS OF VAPOR MAY CAUSE IRRITATION OR CORNEAL INJURY.

INHALATION: OVEREXPOSURE MAY CAUSE EYE, NOSE AND THROAT IRRITATION. MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS DIZZINESS, HEADACHE, NAUSEA, DROWSINESS OR FATIGUE. MAY CAUSE INCREASE OF PRE-EXISTING ASTHMATIC SYMPTOMS.

INGESTION: MAY CAUSE IRRITATION TO GASTROINTESTINAL TRACT AND CNS EFFECTS. CHRONIC AND PROLONGED OVEREXPOSURE CAN CAUSE LIVER AND KIDNEY DAMAGE.

CHRONIC EXPOSURE: CHRONIC AND PROLONGED OVEREXPOSURE CAN CAUSE LIVER AND KIDNEY DAMAGE.

SENSITIZER: POTENTIAL SKIN SENSITIZER. CHRONIC CONTACT MAY CAUSE ALLERGIC SKIN RASH, ITCHING, SWELLING.

CARCINOGENICITY: NO INGREDIENT IDENTIFIED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY NTP, IARC OR OSHA.

TERATOGENICITY: NO HUMAN DATA REPORTED

EMBRYOTOXICITY: NO HUMAN DATA REPORTED

MUTAGENICITY: NO HUMAN DATA REPORTED

PRE-EXISTING CONDITIONS: NO HUMAN DATA REPORTED

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXITY: NOT ESTABLISHED FOR THIS MIXTURE.

DEGRADABILITY: EXPECTED TO BE HIGH. ALL COMPONENTS ARE VOLATILE.

BIOACCUMULATION: NOT EXPECTED TO BIOACCUMULATE.

MOBILITY IN SOIL: EXPECTED TO BE LOW. COMPONENTS ARE VOLATILE AND WILL EVAPORATE.

SECTION 13: DISPOSAL INFORMATION

CLEAN UP WITH ABSORBENT MATERIAL. EVAPORATE IN HOOD OR DISPOSE OF IN APPROVED METAL WASTE CANS.

SECTION 14: TRANSPORT INFORMATION

UN NUMBER: UN 1247

SHIPPING NAME: METHYL METHACRYLATE MONOMER, INH.

CLASS: 3

PACKING GROUP: II

MARINE POLLUTANT: NO DATA

WARNING SYMBOL: FLAMMABLE

OTHER: FLAMMABLE LIQUID. LESS THAN 1 LITER SHIPS AS ORM-D

SECTION 15: REGULATORY INFORMATION

LABELING: FLAMMABLE, SENSITIZER.

NFPA RATINGS: HEALTH HAZARD: 2 FIRE & EXPLOSION: 3 REACTIVITY: 1 SPECIAL PROTECTION: B

NATIONAL REGULATIONS:

TSCA: ALL COMPONENTS ARE ON THE TSCA INVENTORY LIST.

SARA: SARA SECTION 302: EXTREMELY HAZARDOUS SUBSTANCES: NONE LISTED.

SARA SECTION 313: N/A

INAPPLICABLE: NO COMPONENTS ARE SUBJECT TO TSCA SNUR LISTING.

FOREIGN REGULATIONS:

ALL COMPONENTS ARE ON THE EU EINECS INVENTORY LIST AND THE CANADIAN DSL.

SECTION 16: OTHER INFORMATION

REGULATIONS RELATED TO HANDLING AND STORAGE OF FLAMMABLE LIQUIDS SHOULD BE FOLLOWED. PERMIT AIR SPACE TO EXIST INSIDE STORAGE CONTAINERS. STORE SEPARATELY FROM ACRYLIC POLYMER POWDERS AND POLYMERIZATION CATALYSTS.

SALES INFORMATION: 1-800-558-5925 (8 AM TO 6 PM EST, MONDAY TO FRIDAY)

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Information Furnished By: L. D. Hochhauser
Product Development Mgr.

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