

LANG DENTAL MFG INC -- INSTANT TRAY MIX LIQUID

=====  
MSDS Safety Information  
=====

FSC: 6520  
NIIN: 00-889-9566  
MSDS Date: 05/10/1994  
MSDS Num: CJDLS  
Product ID: INSTANT TRAY MIX LIQUID  
MFN: 01  
Responsible Party  
Cage: KO154  
Name: LANG DENTAL MFG CO INC  
Address: 175 MESSNER DR  
Box: 969  
City: WHEELING IL  
60090  
Info Phone Number: 708-215-6622  
Emergency Phone Number: 708-215-6622

=====  
Item Description Information  
=====

Item Manager: S9M  
Item Name: RESIN,ACRYLIC,DENTAL  
Specification Number: MIL-R-36433  
Unit of Issue: PG  
UI Container Qty: 1  
Type of Container: PACKAGE

=====  
Ingredients  
=====

Cas: 80-62-6  
RTECS #: OZ5075000  
Name: METHYL METHACRYLATE  
> Wt: 95.  
OSHA PEL: 410 MG/M3;100 PPM  
ACGIH TLV: 410 MG/M3;100 PPM  
ACGIH STEL: NOT ESTABLISHED  
EPA Rpt Qty: 1000 LBS  
DOT Rpt Qty: 1000 LBS

-----  
Cas: 99-97-8  
RTECS #: XU5803000  
Name: DIMETHYL-P-TOLUIDINE  
< Wt: 5.  
Other REC Limits: NONE RECOMMENDED  
OSHA PEL: NOT ESTABLISHED  
ACGIH TLV: NOT ESTABLISHED

=====  
Health Hazards Data  
=====

=====

LD50 LC50 Mixture: LD50 (ORAL, RAT) 7,900 MG/KG

Route Of Entry Inds - Inhalation: YES

Skin: YES

Ingestion: NO

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: TARGET ORGANS: EYE, SKIN, CNS, RESPIRATORY & GI TRACTS. ACUTE- MAY CAUSE SEVERE EYE IRRITATION AND POSSIBLE CORNEAL DAMAGE. CAN CAUSE ALLERGIC SKIN REACTION. SKIN PERMEATION MAY OCCUR. INHALATION CAN CAUSE RESPIRATORY TRACT IRRITATION, CENTRAL NERVOUS SYSTEM EFFECTS AS WELL AS ABNORMAL KID

NEY FUNCTION AND TEMPORARY ELEVATION OF BLOOD PRESSURE. MAY BE HARMFUL IF INGESTED. TOXICITY DESCRIBED IN ANIMALS EXPOSED BY INGESTION NEAR THE LD50 INCLUDES BLOOD IN THE URINE AND LIVER CHANGES. CHRONIC- IN ANIMAL HAS CAUSED LIVER AND KIDNEY EFFECTS, PEELING OF THE SKIN, INFLAMMATION OF THE NASAL CAVITY, SLIGHT DECREASE IN BODY WEIGHT.

Explanation Of Carcinogenicity: NONE OF THE COMPONENTS IN THIS MATERIAL IS LISTED BY IARC, NTP, OSHA, OR ACGIH AS A CARCINOGEN.

Signs And Symptoms Of

Overexposure: IRRITATION, HEADACHE, DIZZINESS, NAUSEA, VOMITING, EYE REDNESS, TEARING, BLURRED VISION, SKIN CRACKING, PEELING, ALLERGIC REACTION, BLOOD IN URINE, SKIN SENSITIZATION

Medical Condition Aggravated By Exposure: PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS OR IMPAIRED LIVER, KIDNEY, CENTRAL NERVOUS SYSTEM OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

First Aid: GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALATION: REMOVE TO FRESH AIR. GI

VE ARTIFICIAL RESPIRATION IF NOT BREATHING. IF BREATHING IS DIFFICULT, OXYGEN MAY BE GIVEN BY QUALIFIED PERSONNEL. EYE CONTACT: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN. SKIN: WASH WITH SOAP & WATER. WASH CONTAMINATED CLOTHING BEFORE REUSE. INGESTION: DO NOT INDUCE VOMITING. IF PATIENT IS FULLY CONSCIOUS, GIVE TWO GLASSES OF WATER. SEEK MEDICAL ATTENTION. IF VOMITING OCCURS, KEEP HEAD BELOW HIPS. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

=====

Handling and Disposal

=====

Spill Release Procedures: WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. DO NOT WALK THROUGH SPILL; STOP SPILL IF POSSIBLE. USE A VAPOR SUPPRESSING FOAM TO REDUCE VAPORS. CONTAIN AND PICK UP WITH NON-FLAMMABLE ABSORBENT SUCH AS SAND, VERMICULITE. GROUND ALL HANDLING EQUIPMENTS. PREVENT LIQUID FROM ENTERING SEWERS, WATERWAYS,

CONFINED SPACES.

Waste Disposal Methods: PRODUCT IS SUITABLE FOR BURNING IN AN ENCLOSED, CONTROLLED BURNER FOR FUEL VALUE OR DISPOSED BY SUPERVISED INCINERATION. IN ADDITION, THE PRODUCT IS SUITABLE FOR RECYCLING. OBSERVE ALL LOCAL, STATE AND FEDERAL REGULATIONS. DO NOT INCINERATE IN CLOSED CONTAINERS. EPA LISTED HAZARDOUS WASTE UNDER RCRA (U-162).

Handling And Storage Precautions: STORE IN WELL VENTILATED AREA. STORE IN COOL PLACE. KEEP CONTAINER TIGHTLY CLOSED. STORE IN ACCORDANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION REGULATIONS. KEEP AWAY FROM DIRECT SUNLIGHT, IGNITION SOURCES, AND INCOMPATIBLE MATERIALS..

Other Precautions: FLAMMABLE. EMPTY CONTAINERS RETAIN PRODUCT RESIDUES (VAPORS, LIQUID, AND/OR SOLID) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER OR DRILL. KEEP OUT OF REACH OF CHILDREN. AVOID BREATHING VAPORS. DO NOT GET IN EYE, ON SKIN OR ON CLOTHING.

=====  
Fire and Explosion Hazard Information  
=====

Flash Point Method: TCC

Flash Point: =10.C, 50.F

Lower Limits: 1.7%

Upper Limits: 8.2%

Extinguishing Media: FOAM, CARBON DIOXIDE, DRY CHEMICAL, WATER FOG (BY TRAINED PERSONNEL).

Fire Fighting Procedures: FULL PROTECTIVE EQPMT, INCL SCBA. COOL CONTNR WITH H2O SPRAY. FIGHT FIRE FROM DISTANCE, HEAT MAY RUPTURE CONTNRS. VAPORS UNINHIBITED & MAY FORM POLYMERS IN VENTS/FLAME ARRESTERS, RESULTING IN STOPPAGE OF VENTS

Unusual Fire/Explosion Hazard: FLAM LIQUID. VAPOR FORMS EXPLOSIVE MIX WITH AIR. SEALED CNTNRS EXPOSED TO ELEVATED TEMPS MAY RUPTURE EXPLOSIVELY DUE TO POLYMERIZATION. VAPORS ARE HEAVIER THAN AIR & MAY TRAVEL TO IGNITION SOURCE& FLA SH BACK.

=====  
Control Measures  
=====

Respiratory Protection: NONE NORMALLY REQUIRED. IF TLV IS EXCEEDED OR FOR SYMPTOMS OF OVER EXPOSURE, WEAR NIOSH -APPROVED POSITIVE-PRESSURE AIR-SUPPLIED

RESPIRATOR. AIR-PURIFYING RESPIRATOR IS INADEQUATE FOR THIS MATERIAL.

Ventilation: MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves: BUTYL RUBBER

Eye Protection: CHEMICAL SAFETY GLASSES OR GOGGLES OR FACE SHIELD

Other Protective Equipment: EYE BATH, WASHING FACILITIES, SAFETY SHOWER AND IMPERVIOUS CLOTHING OR WHOLE BODYSUIT

Work Hygienic Practices: OBSERVE GOOD INDUSTRIAL HYG

SAFE HANDLING PRACTICES AND RECOMMENDED PROCEDURES. WASH AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING.

Supplemental Safety and Health: NOTE TO PHYSICIAN: ACTIVATED CHARCOAL MIXTURE MAY BE ADMINISTERED. TO PREPARE THE MIXTURE, SUSPEND 50 GRAMS ACTIVATED CHARCOAL IN 400 ML WATER AND MIX THOROUGHLY. ADMINISTER 5 ML/KG OR 350 ML FOR AN AVERAGE ADULT.

=====  
Physical/Chemical Properties  
=====

HCC: F2  
Boiling Point: =101.C, 213.8F  
B.P. Text: @760MMHG  
Vapor Pres: 29MMHG@20C  
Vapor Density: 3.46@60F  
Spec Gravity: 0.944@20C  
Evaporation Rate & Reference: (BUAC=1) 3  
Solubility in Water: 1.6WT%  
Appearance and Odor: COLORLESS LIQUID  
Percent Volatiles by Volume: 100

=====  
Reactivity Data  
=====

Stability Indicator: NO  
Stability Condition To Avoid: HEAT, SPARKS, FLAMES, IGNITION SOURCES  
Materials To Avoid: RUBBER, PAINT, STRONG OXIDIZING AGENTS, STRONG REDUCING AGENTS  
Hazardous Decomposition Products: MAY FORM CARBON MONOXIDE, CARBON DIOXIDE, AND SMOKE.  
Hazardous Polymerization Indicator: YES  
Conditions To Avoid Polymerization: EXCESSIVE HEAT, AND INADVERTENT ADDITION OF CATALYST. CONTAMINATION OF PRODUCT MAY ALSO CAUSE HAZARDOUS POLYMERIZATION.

=====  
Toxicological Information  
=====

=====  
Toxicological Information: LC50 (INH, RAT/4 HOUR): 7093 PPM; SKIN ABSORPTION LD50: > 35,500 MG/KG IN RABBITS

=====  
Transportation Information  
=====

Responsible Party Code: KO154  
Trans ID NO: 139855  
Product ID: INSTANT TRAY MIX LIQUID  
MSDS Prepared Date: 05/10/1994  
Review Date: 03/19/1999  
MFN: 1  
Net Unit Weight: 1 LB MINIMUM  
Multiple KIT Number: 0  
Unit Of Issue: PG  
Container QTY: 1  
Type

e Of Container: PACKAGE

Additional Data: PROPER SHIPPING NAME, UN ID NUMBER, HAZARD CLASSIFICATION,  
PER MSDS.

=====  
Detail DOT Information  
=====

DOT PSN Code: JOB  
DOT Proper Shipping Name: METHYL METHACRYLATE MONOMER, INHIBITED  
Hazard Class: 3  
UN ID Num: UN1247  
DOT Packaging Group: II  
Label: FLAMMABLE LIQUID  
Special Provision: T8  
Packaging Exception: 150  
Non Bulk Pack: 202  
Bulk Pack: 242  
Max Qty  
y Pass: 5 L  
Max Qty Cargo: 60 L  
Vessel Stow Req: B  
Water/Ship/Other Req: 40

=====  
Detail IMO Information  
=====

IMO PSN Code: JZT  
IMO Proper Shipping Name: METHYL METHACRYLATE, MONOMER, INHIBITED  
IMDG Page Number: 3259  
UN Number: 1247  
UN Hazard Class: 3.2  
IMO Packaging Group: II  
Subsidiary Risk Label: -  
EMS Number: 3-07  
MED First Aid Guide NUM: 330

=====  
Detail IATA Information  
=====

IATA PSN Code: RBQ  
IATA UN ID Num: 1247  
IATA Proper Shipping Name: METHYL METHACRYLATE MONOMER, INHIBITED  
IATA UN Class: 3  
IATA Label: FLAMMABLE LIQUID  
UN Packing Group: II  
Packing Note Passenger: 305  
Max Quant Pass: 5L  
Max Quant Cargo: 60L  
Packaging Note Cargo: 307

=====  
Detail AFI Information  
=====

AFI PSN C

ode: RBQ

AFI Proper Shipping Name: METHYL METHACRYLATE MONOMER, INHIBITED

AFI Hazard Class: 3

AFI UN ID NUM: UN1247

AFI Packing Group: II

Special Provisions: P5

Back Pack Reference: A7.3

=====  
HAZCOM Label  
=====

Product ID: INSTANT TRAY MIX LIQUID

Cage: KO154

Assigned IND: Y

Company Name: LANG DENTAL MFG CO INC

Street: 175 MESSNER DR

PO Box: 969

City: WHEELING IL

Zipcode: 60090

Health Emergency P

hone: 708-215-6622

Label Required IND: Y

Date Of Label Review: 03/19/1999

Status Code: A

Year Procured: 1998

Origination Code: F

Chronic Hazard IND: Y

Eye Protection IND: YES

Skin Protection IND: YES

Signal Word: DANGER

Respiratory Protection IND: NO

Health Hazard: Moderate

Contact Hazard: Severe

Fire Hazard: Severe

Reactivity Hazard: None

Hazard And Precautions: TARGET ORGANS: EYE, SKIN, CNS, RESPIRATORY & GI

TRACTS. ACUTE- MAY CAUSE SEVERE EYE IRRITATION AND POSSIBLE CORNEAL DAMAGE.

CA

N CAUSE ALLERGIC SKIN REACTION. SKIN PERMEATION MAY OCCUR. INHALATION CAN  
CAUSE RESPIRATORY TRACT IRRITATION, CENTRAL NERVOUS SYSTEM EFFECTS AS WELL AS  
ABNORMAL KIDNEY FUNCTION AND TEMPORARY ELEVATION OF BLOOD PRESSURE. MAY BE  
HARMFUL IF INGESTED. TOXICITY DESCRIBED IN ANIMALS EXPOSED BY INGESTION NEAR  
THE LD50 INCLUDES BLOOD IN THE URINE AND LIVER CHANGES. CHRONIC- IN ANIMAL  
HAS CAUSED LIVER AND KIDNEY EFFECTS, PEELING OF THE SKIN, INFLAMMATION OF THE  
NASAL CAVITY, SLIGHT DECREASES

E IN BODY WEIGHT.

=====

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever expressly or implied warrants, states, or intends said information to have any application, use or viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.