

Dux Dental Material Safety Data Sheet

Van R. Cadco, Clive Craig
600 E. Hueneme Road
Oxnard, CA, USA

Phone: 805.488.1122
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www.duxdental.com

Product ZONE Temporary Cement
Other Name ZONE Temporary Cement Shade A1, Temporary Cement Aesthetic Kit
REF 27039, 27040, 27043, 27044, 27045, 27244, 27047

MSDS Number MS232

Hazardous Ingredients		pel / tlv	CAS Number	Percentage
Principal Hazardous Components		NA	NA	NA
NA		NA	NA	NA
Physical and Chemical Characteristics				
Appearance	A two paste system (yellow base, white cat) which sets to a pliable mass.			
Boiling Point	NA			
Melting Point	NA			
Vapor Pressure	NA			
Evaporation Rate	NA			
Odor	None			
Vapor Density	NA			
Specific Gravity	NA			
Water Solubility	Slight			
Fire & Explosion Data				
Explosion	Not considered to be an explosion hazard.			
Fire	Not considered to be a fire hazard.			
Fire Ext. Type	A B C			
Flashpoint	NA			
Special Fire Procedures	None			
Unusual Hazards	None Known			
Reactivity Data				
Stability	Stable			
Incompatibilities	None Known			
Hzd Decomp Products	Carbon monoxide			
Hazardous Polymerization	Will not occur.			

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Health Hazard Information	
Ingestion	NA
Inhalation	NA
Skin/Eye Contact	May cause irritation.
Toxicity Data	No harm via exposures of normal use; harmful only due to overwhelming dose or unusual conditions.
Acute Hazards	None
Chronic Hazards	None
Carcinogenicity	NA, no product ingredient listed by NTP, IARC, or OSHA.
Precautions for Safe Handling and Use	
Cleanup	Allow to set and remove from surface.
Disposal	Dispose of in accordance with local, state, and federal regulations.
Precautions	As part of good industrial, personal hygiene, and safety practice avoid all unnecessary exposure to the substance and ensure prompt removal from skin, eyes, and clothing.
Occupational Control Measures	
Eye Protection	NA
Gloves	NA
Dust/Particulate Mask	NA
Other	NA
Additional Information	
DOT Hazard Class	Not Regulated
DOT Small Qty Exception	NA
DOT Other Exception	NA
DOT Exception Permitted	NA
Allergenic Ingredients	This product does not contain Latex, Peanut Products, Gluten, or Red Dye #3.

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, the company makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgement in determining its appropriateness for a particular purpose. Accordingly, we will not be responsible for damages of any kind resulting from the use of or reliance upon such information. No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information set forth herein or to the product to which the information refers.

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: LANG DENTAL MFG. CO., INC.
175 MESSNER DRIVE
WHEELING, IL 60090
U.S.A.

TELEPHONE: PRODUCT INFORMATION: (800) 222-8284 or (847) 215-8822

EMERGENCY CONTACT: INFOTRAC 24 HOURS CHEMICAL RESPONSE SYSTEM
(800) 535-5053 or (352) 323-3500

PRODUCT: JET LIQUID / ORTHO-JET LIQUID

PRODUCT NUMBERS: 1403, 1404, 1406, 1407, 148, 1409, 1412, 1412G, 1484, 1484EP, 1484LR, 1484U, 1493, 1493AS /
1303, 1304, 1306, 1307, 1308, 1309, 1323, 1334

2. COMPOSITION / INFORMATION ON INGREDIENTS**CHEMICAL NATURE:**

Methyl Methacrylate: CAS Number - 80-82-6 EINECS - 2012971

HAZARDOUS INGREDIENT (S):	%:	HAZARD SYMBOL:	R PHRASES:
Methyl Methacrylate	> 95	F, XI	11;36/37/38;43
99-87-8 N,N-dimethyl-p-toluidine	< 2	T	23/24/25;33;52/53

3. HAZARDS IDENTIFICATION

Highly flammable.

Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact. High atmospheric concentrations may lead to irritation of the respiratory tract and anesthetic effects. Repeated and/or prolonged contact may cause dermatitis.

4. FIRST AID MEASURES

INHALATION: Remove patient from exposure, keep warm and at rest. Obtain immediate medical attention.

SKIN: Remove contaminated clothing. Wash skin immediately with water. If symptoms (irritation or blistering) occur obtain medical attention.

EYE: Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.

INGESTION: If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk immediately. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Obtain immediate medical attention.

CLOTHING: Remove contaminated clothing, wash thoroughly before reuse.

TREATMENT: Treat symptoms conventionally, after thorough decontamination.

5. FIRE FIGHTING MEASURES

FLASH POINT (METHOD): 11.5 °C (52.7 °F) (TCC)	APPROX. FLAMMABLE LIMITS: LEL 2.12%, UEL 12.5%	AUTOIGNITION TEMPERATURE: 421 °C (790 °F)
EXTINGUISHING MEDIA: Chemical foam, carbon dioxide, dry chemical.		

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JETLQ

MATERIAL SAFETY DATA SHEET

FIRE AND EXPLOSION HAZARDS: For bulk size > 1L - High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during a runaway polymerization. Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product.

SPECIAL FIRE FIGHTING PROCEDURES: Highly flammable. When involved in a fire, this product may ignite readily and decompose to produce carbon oxides. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container. Do not enter fire area without proper protection. Fight fire from a safe location. Heat/impurities may cause pressure to build and/or rupture closed containers, spreading fire, increasing risk of burns/injuries.

FIRE FIGHTING PROTECTIVE EQUIPMENT: A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

SENSITIVE TO MECHANICAL IMPACT: No
SENSITIVE TO STATIC DISCHARGE: Yes

6. ACCIDENTAL RELEASE MEASURES

Eliminate sources of ignition. Ensure suitable personal protection (including respiratory protection) during removal of spillages. Prevent entry into drains. Adsorb spillages onto sand, earth or any suitable adsorbent material. Do not adsorb onto sawdust or other combustible materials. Use only non-sparking tools for recovery and cleanup. Maximize ventilation (open doors and windows) and secure all sources of ignition. Transfer to a container for disposal or recovery. Wash all affected areas with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

7. HANDLING AND STORAGE

PRECAUTIONS FOR HANDLING: Observe precautions found on the label. Close container after each use. Ground all metal containers when transferring. Use explosion-proof equipment.

HANDLING: Avoid contact with skin and eyes. Avoid inhalation of high concentration of vapors. Use only in well ventilated areas. The vapor is heavier than air; beware of pits and confined spaces. Take precautionary measures against static discharges.

STORAGE: Keep only in original container. Store in cool, dry place away from heat, sparks, flame and direct sunlight, other light sources, or sources of intense heat. Keep container closed to prevent water absorption and contamination. Keep away from sources of ignition - No Smoking.

IMPORTANT: Methacrylate stored in bulk must be kept in contact with air (oxygen).

Monomer vapors are uninhibited and may form polymers in vent or flame arresters, resulting in blockage of vents.

STORAGE TEMPERATURE: Preferably not exceeding 25 °C.

INDUSTRIAL HYGIENE PRACTICES: Avoid contact with skin, eyes, clothing, and prolonged contact with the product. Wash face and hands thoroughly with the soap and water after use and before eating, drinking, smoking or applying cosmetics. Do not eat, drink or smoke while handling product.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

The following information is given as general guidance.

MATERIAL SAFETY DATA SHEET

RESPIRATORS: Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. A suitable mask with filter type A may be appropriate, if necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR SS 1910.134 or other appropriate governing standard.

EYE PROTECTION: Depending on the use of this product, splash or safety glasses may be worn. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR SS 1910.133 or other appropriate governing standard. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

GLOVES: If anticipated that prolonged & repeated skin contact will occur during use of this product, wear chemical resistant gloves for routine industrial use. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR SS 1910.133 or other appropriate governing standard.

OTHER: Wear suitable protective clothing.

OCCUPATIONAL EXPOSURE LIMITS:

HAZARDOUS INGREDIENT (S): PEL (OSHA):
Methyl Methacrylate 100 ppm

TLV (ACGIH):
100 ppm

COMPANY RECOMMENDATION:
100 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

For Methyl Methacrylate:

VAPOR DENSITY (AIR=1): VAPOR PRESSURE (28 mmHg):
3.6 at 15.5 °C (60 °F) 20 °C (68 °F)

WATER SOLUBILITY:
1.6 wt% @ 20 °C (68 °F)

PERCENT VOLATILE (W/W%): BOIL POINT:
SS+ 101 °C, 214 °F

SPECIFIC GRAVITY (H₂O=1):
0.94

VISCOSITY: EVAPORATION RATE (BuAc=1):
Like water 3.1

DENSITY:
0.949 g/ml @ 15.5°C

ODOR: CHARACTERISTIC STRONG AND ACID

FORM:
Liquid

COLOR:
Clear

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Temperatures above 21°C, 70°F, localized heat sources (example drum or band heaters) oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong reducers, free radical initiators, inert gases, and oxygen scavengers. Material has strong solvent properties and can soften paint and rubber.

HAZARDOUS DECOMPOSITION PRODUCT(S): Oxides of carbon when burned.

HAZARDOUS POLYMERIZATION: May occur.

STABILITY: Unstable/Reactive upon depletion of inhibitor.

11. TOXICOLOGICAL INFORMATION

INHALATION: Irritating to respiratory system. High atmospheric concentrations may lead to irritation of the respiratory tract, dizziness, headache and anesthetic effects.

SKIN: May cause sensitization by skin contact. Irritating to skin. Repeated and/or prolonged contact may cause dermatitis.

EYE: Irritating to eyes. High vapor concentration will cause irritation.

INGESTION: Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract.

TARGET ORGANS: For Methyl Methacrylate - Repeated exposure to high levels produces adverse effects on the nose, liver, and kidneys.

MATERIAL SAFETY DATA SHEET

There is no reason to believe that methyl methacrylate represents a carcinogenic or mutagenic hazard to man based upon evidence from well-conducted studies in relevant cohorts.

Recent studies in animals have shown that high exposures do not have reproductive effects. Similarly, none of these effects are likely to occur in humans provided exposure is maintained at or below the occupational exposure limit.

TOXICITY DATA:

<p>For Methacrylate:</p> <p>Acute Oral Rat LD₅₀: >7900 mg/kg</p> <p>Acute Dermal Rabbit LD₅₀: >35,500 mg/kg</p> <p>Inhalation Human TC₀₁: 125 ppm</p> <p>Inhalation Human TC₁₀: 60 mg/m³</p> <p>Inhalation Rat LC₅₀: 7094 ppm/4H</p>	<p>For N,N-dimethyl-p-toluidine: Acute Oral Rat LD₅₀ 1650 mg/kg</p> <p>Acute Dermal Rat LD₅₀ >2000 mg/kg</p> <p>Inhalation Rat LC₅₀ 2540 ppm/4H</p>
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12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY: Flathead Minnow LC₅₀ 130 mg/L, 96H
 (For Methyl Methacrylate) Daphnia magna EC₅₀ 66 mg/L, 48H
 Algae LC₅₀ 170 mg/L, 96H

ENVIRONMENTAL FATE: 28 Day Biodegradation Study: Not readily biodegradable.
 (For Methyl Methacrylate) Chemical Oxygen Demand (COD) 88% (28 days).
 Inherent Biodegradation: Dissolved Organic Carbon Removal (DOC removal) > 95% (28 days)
 Adsorption/Desorption: High mobility in soil.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: When discarded it is a hazardous waste by the EPA under RCRA. The reportable quantity (RQ) for methyl methacrylate is 1000 lbs (40 CFR Part 302). After addition of excess inhibitor, dispose waste material in accordance with Federal, State, and Local regulations.

DISPOSAL OF EMPTY CONTAINERS: Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards, due to residual flammable material, associated with empty containers. Dispose of all empty containers properly, in accordance with Federal, State and Local regulations.

14. TRANSPORTATION

DOT / UN SHIPPING NAME:	Flammable liquid, n.o.s. (Methyl Methacrylate monomer, stabilized / N, N-dimethyl-p-toluidine solution)
NAUN NUMBER:	UN1993
DOT/UNCLASS:	3
PACKING GROUP:	II
LABEL:	Flammable liquid
IMDG CLASS:	3
CERCLA RQ:	1000 lb

15. REGULATORY INFORMATION**EC REGULATIONS:**

EINECS: all chemical listed
 EEC Classification: **HIGHLY FLAMMABLE AND IRRITANT**
 Symbol: Indication of Danger



F Highly Flammable

MATERIAL SAFETY DATA SHEET

Xn Harmful

- Risk Phrases:** R11 Highly flammable.
R20/21/22 Harmful by inhalation, and in contact with skin.
R33 Danger of cumulative effects.
R38/37/38 Irritating to the eyes, respiratory system and skin.
R43 May cause sensitization by skin contact.
- Safety Phrases:** S3 Keep in a cool place.
S7 Keep container tightly closed.
S9 Keep container in well ventilated place.
S16 Keep away from sources of ignition. No smoking.
S20 When using do not eat or drink.
S24 Avoid contact with skin.
S29 Do not empty into drains.
S37/39 Wear suitable gloves and eye/face protection.
S46 If swallowed, seek medical advice immediately and show this container or label.

CANADIAN REGULATIONS:

DSL: Included
WHMIS Classification: B2 Flammable Liquid
D2B Irritant

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. None of the components of this product are listed on the Priorities Substances List.

TSCA Inventory Status: The components of this product are listed on the TSCA inventory.

Other Federal Requirements: This product complies with the appropriate sections of the U.S. FDA's 21 CFR.

State Regulatory: This product may contain components that are covered under specific state criteria.

SARA Reporting Requirements: Yes

SARA Threshold Planning Quantity: There are specific Threshold Planning Quantities for the components of this product.

16. OTHER INFORMATION**HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:**

HEALTH = 2

FLAMMABILITY = 3

REACTIVITY = 2

PERSONAL PROTECTIVE EQUIPMENT - Gloves and safety glasses or chemical splash goggles.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING:

HEALTH = 2

FLAMMABILITY = 3

REACTIVITY = 2

This data sheet was prepared in accordance with Directive 91/185/EEC.

The above information has been gathered from reliable sources and is believed to be correct. However, the information is provided without any warranty, either expressed or implied. Lang Dental Mfg. Co., Inc. shall not be held liable for any damage resulting from the handling of or contact with the above product.

UPDATE 01/06/06

Dentemp's Denture Repair Powder Material Safety Data Sheet

Part I

MATERIAL SAFETY DATA SHEET

SECTION I — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: MAJESTIC DRUG CO., INC.

PO BOX 490, 4996 MAIN STREET

SOUTH FALLSBURG, NY 12779

USA

TELEPHONE: PRODUCT INFORMATION: (800) 238-0220 or (845) 436-0011

MEDICAL EMERGENCY: (800) 238-0220

or INFOTRAC 24 HRS CHEMICAL RESPONSE SYSTEM (800) 535-5053

CHEMICAL NAME: PLASTICIZED METHACRYLATE POLYMER

PRODUCT: DENTURE REPAIR ACRYLIC POWDER

SECTION II — COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT (S):	CAS NUMBER:	%:
Particulates, NOC NE		< 99
Dialkyl Phthalate 84-66-2		< 15

SECTION III - HAZARDS IDENTIFICATION

PRIMARY ROUTES OF ENTRY: Eyes or skin (no absorption); inhalation of dusts.

EFFECTS OF OVER EXPOSURE: OSHA classifies this material as Particulates, not otherwise classified. Eyes, skin and respiratory tract may be irritated by gross overexposure to particulates, not otherwise classified, no matter how they are generated. Avoid inhalation of dust. Keep dust out of eyes to prevent possible irritation.

SECTION IV — FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove to fresh air. Get medical help if discomfort persists.

EYES: Flush with water for 15 minutes, including under eyelids. Get medical help if discomfort persists.

SKIN: Wash with soap and water. Get medical help if discomfort persists.

INGESTION: Rinse mouth out with water. Call doctor if amount was large.

SECTION V — FIRE FIGHTING MEASURES

EXTINGUISHER METHOD: Water, carbon dioxide, dry chemical

SPECIAL FIRE FIGHTING PROCEDURES: Avoid extinguishing methods which may generate dust clouds. Water stream can disperse dust in air, producing a fire hazard and possible explosion hazard if exposed to ignition source.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust. Fire fighters should wear self-contained breathing apparatus.

SECTION VI — ACCIDENTAL RELEASE MEASURES

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

Sweep up to avoid slipping hazard. Keep airborne particulate at a minimum when cleaning up spills.

SECTION VII — HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in cool dry place. Keep container closed to prevent water absorption and contamination.

OTHER PRECAUTIONS: Wash thoroughly after use and before eating or smoking.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): Use type for particulates not otherwise classified, if needed.

VENTILATION: Local exhaust at processing equipment.

PROTECTIVE GLOVES: If hot plastic is handled.

EYE PROTECTION: Safety glasses.

SECTION IX — PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: NA **SPECIFIC GRAVITY (H₂O=1):** 1.25

VAPOR PRESSURE: NA **PERCENT VOLATILE W/W%:** NA

VAPOR DENSITY (AIR=1): NA **EVAPORATION RATE:** NA

SOLUBILITY IN WATER: Insoluble **APPEARANCE AND ODOR:** Fine powder. Faint odor in bulk.

SECTION X — STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Heating above 240 C (464 F)

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Methyl methacrylate monomer and oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION XI — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: May be disposed of in landfill or incinerated. Follow federal, state and local regulations for disposal.

SECTION XII — TRANSPORTATION

SHIPPING NAME: Synthetic Gum Resin Granular, NOIBN

SECTION XIII — OTHER INFORMATION

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:

HEALTH = 1

FLAMMABILITY = 1

REACTIVITY = 0

This data sheet was prepared in accordance with Directive 93/112/EC
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11/12/99 Rev. 1

Cadco Material Safety Data Sheet

600 E. Huenehue Road, Oxnard, CA 93033-8600 USA

3/11/98

Emergency 805/488-1122

Information 805/488-1122

Product Name **Eugenol**

Other Name

Applicable DCS 27229

MSDS Number **MS212****Hazardous Ingredients**Principal Hazardous Components
NonePEL / TLV
NACAS Number
NAPercentage
NA**Physical and Chemical Characteristics**

Appearance **Colorless to pale yellow liquid with a strong odor.**
 Boiling Point **253 C**
 Melting Point **9 C**
 Vapor Pressure **NA**
 Evaporation Rate **NA**

Odor **Cloves**
 Vapor Density **NA**
 Specific Gravity **1.068**
 Water Solubility **Sl. Soluble**

Fire and Explosion DataFlammable Limits **Not considered to be a fire hazard.**Explosive Limits **Not considered to be an explosion hazard.**Extinguisher Media **A B C**Special Fire Fighting Procedures **None**Flashpoint **NA**Unusual Hazards **None Known****Reactivity Data**Hazardous Decomp Products **None**Stability **Stable**Hazardous Polymerization **Will not occur.**Incompatibilities **Oxidizers**