



# SAFETY DATA SHEET

Issue Date 23-July-2015

Revision Date

Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** JET ADJUSTER BRUSH CLEANER, THINNER

### Other means of identification

**SDS#** 060  
**UN/ID No** UN1247  
**Product Code** 3201, 3206, 3299

### Recommended use of the chemical and restrictions on use

**Recommended Use** With Jet Adjusters colors: Thinning liquids and cleaning brushes

### Details of the supplier of the safety data sheet

**Supplier Address** Lang Dental Mfg. Co., Inc.  
175 Messner Dr.  
Wheeling, IL 60090  
USA

### Emergency telephone number

**Company Phone Number** 847-215-6622  
**Emergency Telephone (INFOTRAC)** 352-323-3500 (International)  
800-535-5053 (North America)

### Authorized European Representative

MediMark® Europe SARL  
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## 2. HAZARDS IDENTIFICATION

### Classification

Flammable liquids	Category 2
Skin Corrosion / Irritation	Category 2
Skin Sensitization	Category 1
Specific Target Organ Toxicity - Single Exposure (Respiratory)	Category 3

**Signal word** Danger

**Hazard statements** H225 Highly flammable liquid and vapor.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.



**Appearance** Clear or slightly tinted      **Physical state** Liquid      **Odor** Acrid

**Precautionary Statements – Prevention**

- P210 Keep away from heat/sparks/open flames/ hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash hands thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary Statements – Response**

- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before use.
- P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant for extinction.

**Precautionary Statements – Storage**

- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.

**Precautionary Statements – Disposal**

- P501 Dispose of contents/container in accordance with local with local regulation.

**Hazardous component(s) for labeling**      Contains methyl methacrylate.

**Hazards not otherwise classified (HNOC)**      Lachrymator.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight - %	Trade Secret
Methyl Methacrylate	80-62-6	< 100	*

\*Specific chemical weight has been withheld as a trade secret.

**4. FIRST AID MEASURES**

**First aid measures**

**Inhalation**      Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician or poison control center immediately.

**Eye contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician immediately.

**Ingestion** Do NOT induce vomiting. 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. Call a physician or poison control center immediately.

**Skin Contact** Wash off immediately with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs, get medical advice/attention.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Exposed individuals may experience eye tearing, redness and discomfort. Contact may cause irritation and redness. Prolonged exposure in poorly ventilated area may cause respiratory irritation.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptoms conventionally, after thorough decontamination.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable:** Chemical foam, carbon dioxide (CO<sub>2</sub>), dry chemical

**Unsuitable:** Water spray

**Specific hazards arising from the chemical**

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. Extremely flammable. Vapors are heavier than air and may spread along the floors. Vapors may travel to source of ignition and flash back. Heat/impurities may cause pressure to build and/or rupture closed containers, spreading fire, increasing risk or burns/injuries.

<b>Hazardous Combustion Products:</b>	Carbon oxides
<b>Sensitivity to Mechanical Impact:</b>	No
<b>Sensitivity to Static Discharge:</b>	Yes

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Fight fire from a safe location.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use personal protective equipment as required. Ensure adequate ventilation. Remove any contaminated clothing and wash thoroughly before reuse.

**Environmental precautions** Prevent product from entering drains. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

**Methods and material for containment and clean-up**

**Method for containment** Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. DO NOT use combustible materials such as sawdust.

**Method for clean-up** Use only non-sparking tools. Wash all affected areas with plenty of warm water and soap.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### **Advice on safe handling**

Observe precautions found on the label. Keep containers closed when not in use. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. Avoid contact with skin, eyes and clothing. Use only in well-ventilated areas. Vapors are heavier than air and may travel along the floor and in the bottom of containers. Take precautionary measures against static discharges. Keep away from heat, sparks, open flames, and hot surfaces. NO SMOKING. Use personal protection recommended in Section 8. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Do not breathe dust, fume, gas, mist, vapor or spray.

### Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e. pilot lights, electric motors and static electricity). Protect from direct sunlight. Keep container closed to prevent water absorption and contamination. Methacrylate stored in bulk must be kept in contact with air (oxygen). Keep at a temperature not exceeding 25°C.

#### **Packaging materials**

Keep in original container.

#### **Incompatible materials**

Strong oxidizing agents, strong reducing agents, free-radical generators, inert gases, oxygen scavengers  
Material has strong solvent properties and can soften paint and rubber.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure guidelines

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.

<b>Chemical Name</b>	<b>ACGIH TLV</b>	<b>OSHA PEL</b>	<b>NIOSH IDLH</b>
Methyl Methacrylate 80-62-6	STEL: 100 ppm TWA: 50 ppm	TWA:100 ppm TWA: 410 mg/m <sup>3</sup> TWA:100 ppm (vacated) TWA: 410 mg/m <sup>3</sup> (vacated)	IDLH: 1000 ppm TWA: 100 ppm TWA: 410 mg/m <sup>3</sup>

### Appropriate engineering controls

#### **Engineering controls**

Apply technical measures to comply with the occupational exposure limits.  
Eyewash stations

### Individual protection measures, such as personal protective equipment

#### **Eye / face protection**

Depending on the use of this product, safety glasses or goggles may be worn. If necessary, refer to US OSHA 29CFR SS1910.133, Canadian standards or the European Standard EN 166. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

<b>Skin and body protection</b>	If anticipated that prolonged and repeated skin contact will occur during use of this product, wear gloves for routine industrial use. If necessary, refer to US OSHA 29CFR SS1910.138 or the appropriate standards of Canada or the EC member states. Wear suitable protective clothing.
<b>Respiratory protection</b>	Wear suitable respiratory equipment if exposure to levels above the occupational exposure limit is likely. A suitable mask with filter type A may be appropriate. In the event of formation of particularly high levels of vapor, a self-contained breathing apparatus may be appropriate.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid	<b>Odor</b>	Acrid
<b>Appearance</b>	Liquid	<b>Odor threshold</b>	Not determined
<b>Color</b>	Clear		

<u>Property</u>	<u>Values</u>	<u>Remarks / Method</u>
<b>pH</b>	Not determined	
<b>Melting point / freezing point</b>	Not determined	
<b>Boiling point / boiling range</b>	101°C / 214° F	
<b>Flash point</b>	11.5°C / 52.7°F	
<b>Evaporation rate</b>	3.1	Butyl acetate = 1
<b>Flammability (solid, gas)</b>	n/a (liquid)	
<b>Flammability limits in air</b>		
<b>Upper flammability limit</b>	12.5%	
<b>Lower flammability limit</b>	2.12%	
<b>Vapor pressure</b>	28mm Hg	@ 20°C
<b>Vapor density</b>	3.5	@15.5°C (Air = 1)
<b>Specific gravity</b>	0.949	Water = 1
<b>Water solubility</b>	1.6 wt%	
<b>Solubility in other solvents</b>	Not determined	
<b>Partition coefficient</b>	Not determined	
<b>Autoignition temperature</b>	421°C / 790°F	
<b>Decomposition temperature</b>	Not determined	
<b>Kinematic viscosity</b>	Not determined	
<b>Dynamic viscosity</b>	Like water	
<b>Explosive properties</b>	Not determined	
<b>Oxidizing properties</b>	Not determined	

### Other information

<b>Density</b>	0.949 g/mL
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## 10. STABILITY AND REACTIVITY

**Reactivity** Not reactive under normal conditions

**Chemical stability** Unstable / reactive upon depletion of inhibitor

### Possibility of hazardous reactions

None under normal processing

**Hazardous polymerization** Hazardous polymerization may occur. Monomer vapors are inhibited and may form polymers in vent or flame arresters, resulting in blockage of vents.

**Conditions to avoid**

Temperatures above 25°C (77°F), localized heat sources (e.g. drum or band heaters), oxidizing conditions, freezing conditions, direct sunlight, ultraviolet radiation, inert gas blanketing

**Incompatible materials**

Strong oxidizing agents, strong reducing agents, free-radical generators, inert gases, oxygen scavengers  
Material has strong solvent properties and can soften paint and rubber.

**Hazardous decomposition products** Carbon oxides

<b>11. TOXICOLOGICAL INFORMATION</b>
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**Information on likely routes of exposures****Product information**

<b>Inhalation</b>	Harmful if inhaled.
<b>Eye contact</b>	Causes severe eye irritation.
<b>Skin contact</b>	Causes skin irritation.
<b>Ingestion</b>	May be harmful if swallowed.

**Component information**

Chemical Name	ORAL LD50	DERMAL LD50	INHALATION LC50
Methyl Methacrylate 80-62-6	> 7900 mg/kg (rat)	> 35,500 mg/kg (rabbit)	7094 ppm/4H (rat)

**Information on physical, chemical and toxicological effects**

**Symptoms** Contact may cause irritation and redness. Exposed individuals may experience eye tearing, redness and discomfort. Prolonged exposure in poorly ventilated area may cause respiratory irritation.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** May cause allergic skin reaction.

**Carcinogenicity** Not classifiable as a human carcinogen

Chemical Name	ACGIH	IARC	NTP	OSHA
Methyl Methacrylate 80-62-6	-	Group 3	-	-

**IARC (International Agency for Research on Cancer)**

Group 3 IARC components are "not classifiable as human carcinogens"

**STOT – single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.

<b>12. ECOLOGICAL INFORMATION</b>
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**Ecotoxicity**

Chemical Name	Algae / aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Methyl Methacrylate 80-62-6	170: 96 h Pseudokirchneriella subcapitata mg/L EC50	125.5-190.7: 96 h Pimephales promelas mg/L LC50 static;	-	69: 48 h Daphnia magna mg/L EC50

**Persistence and degradability** Not readily biodegradable  
**Bioaccumulation** Not determined  
**Mobility** Potential for mobility in soil is very high.

Chemical Name	Partition coefficient
Methyl Methacrylate 80-62-6	0.7

**Other adverse effects** COD = 88% (28 days), DOC removal > 95% (28 days)

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Disposal of wastes** Follow all local and national government regulations in disposing material or contaminated packaging.

For U.S. - Dispose of in accordance with federal, state and local regulations. When discarded, it is considered a hazardous waste by the EPA under RCRA. The reportable quantity for methyl methacrylate is 1000 lb. (40 CFR Part 302). Add excess inhibitor before disposing.

**Contaminated Packaging** Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards due to residual material associated with empty containers. Dispose of all empty containers in accordance with local and national government regulations.

Chemical Name	RCRA	RCRA – Basis for Listing	RCRA – D Series Wastes	RCRA – U Series Wastes
Methyl Methacrylate 80-62-6	U162	Included in waste stream; F039	-	U162

Chemical Name	California Hazardous Waste Status
Methyl Methacrylate 80-62-6	Toxic Ignitable

### 14. TRANSPORTATION INFORMATION

**DOT**

UN / ID No	UN1247
Proper shipping name	Methyl methacrylate monomer, stabilized
Hazard Class	3
Packing Group	II
Reportable Quantity (RQ)	1000 lb. (methyl methacrylate)

**IATA**

UN / ID No	UN1247
Proper shipping name	Methyl methacrylate monomer, stabilized
Hazard Class	3
Packing Group	II

**IMDG**

UN / ID No	UN1247
Proper shipping name	Methyl methacrylate monomer, stabilized
Hazard Class	3
Packing Group	II

