# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

074591848

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

074591301 074591806

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

074591707 074591715 074591723 074591731 074591749 074591756 074591764 074591772 074591780



# **SAFETY DATA SHEET**

Effective Date 04-Jun-2018 Version 3

### 1. IDENTIFICATION

**Product Identifier** 

Product Name JET ADJUSTERS LIQUID

Other means of identification

**SDS#** 031 UN/ID No UN1993

**Product Code** 3201, 3206, 3299

Recommended use of the chemical and restrictions on use

Recommended Use Custom characterization and staining of provisional crowns and bridges

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** +1-847-215-6622

Emergency Telephone (INFOTRAC) +1-352-323-3500 (International)

800-535-5053 (North America)

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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	Category 3
(Respiratory)	

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.



Jet Adjusters Liquid 031 v. 3 Page 1 of 7

Appearance Clear to colored 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 CO<sub>2</sub>, for extinction.

#### Precautionary Statements - Storage

P235 Keep cool.

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

#### Precautionary Statements - Disposal

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

Hazardous component(s) for labeling Contains methyl methacrylate

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight - %	Trade Secret
Methyl Methacrylate	80-62-6	< 80	*
Acetone	67-64-1	> 10	*

<sup>\*</sup>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. Call a physician or poison control center immediately. Provide an estimate of the time at

which the material was ingested and the amount of the substance that was swallowed.

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.

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

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

### 5. FIRE-FIGHTING MEASURES

#### **Extinguishing Media**

**Symptoms** 

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

Unsuitable: Water spray

#### Specific hazards arising from the chemical

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. Extremely flammable. 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. Vapor forms an explosive mixture with air.

#### **Hazardous Combustion Products**

Acrid smoke-fumes/carbon monoxide/carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

#### Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus for firefighting if necessary. Do not enter area without proper protection. Fight fire from safe distance/protected location. Heat /impurities may increase temperature/build pressure/rupture closed containers, spreading fire, increasing risk of burns/injuries. Use water spray to cool unopened containers. Pressure relief system may plug with solids creating risk of overpressure.

#### 6. ACCIDENTAL RELEASE MEASURES

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

Personal precautions Before cleaning any spill or leak, individuals must wear personal protective equipment as required.

Remove any contaminated clothing and wash thoroughly before reuse.

Environmental precautions ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). 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 Maximize ventilation and secure all sources of ignition. Place into appropriate closed container(s)

for disposal in accordance with local, state and federal regulations. Wash all affected areas with

plenty of warm water and soap.

#### 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling

Keep away from heat, sparks, and flame. Keep container closed after each use. Ground and bond all containers when transferring. Do NOT use localized heat source such as band heaters to heat/melt product. Do NOT steam. Hot boxes or hot rooms are recommended for heating the product, which can be set at a maximum temperature of 60°C/140°F. Avoid contact with skin, eyes and clothing. Use good personal hygiene and housekeeping. After use, wash hands and exposed skin with soap and water. Do not eat, drink, or smoke while handling product. Observe precautions found on the label.

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### 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. Protect from direct sunlight. Keep container closed to prevent water absorption and contamination. Methacrylate stored in bulk quantities of >182 kgs (400lbs) must be kept in contact with air (oxygen). Keep at a temperature not exceeding 25°C. Vapors are uninhibited and may form polymers in vents or flame arresters, resulting in blockage of

vents. Product residue may remain in empty containers.

Packaging materials Keep in original container.

Incompatible materials Strong oxidizing agents, strong reducing agents, free-radical generators, inert gases, oxygen

scavengers.

### 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.

Chemical Name	ACGIH TLV	OSHA PEL
Methyl Methacrylate	STEL: 100 ppm	TWA:100 ppm
80-62-6	TWA: 50 ppm	TWA: 410 mg/m <sup>3</sup>

ACGIH = American Conference of Governmental Industrial Hygienists / OSHA = Occupational Safety and Health Administration
PEL = Permissible Exposure Levels / STEL – Short Term Exposure Limit / TLV – Threshold Limit Value / TWA = Time Weighted Average

#### **Appropriate engineering controls**

Engineering controls

Use local explosion-proof ventilation that is adequate to keep employee exposure to airborne

concentrations below exposure limits.

### 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.

Skin and body protection 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.

Respiratory protection 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.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after

handling. An eyewash station is recommended. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Wash hands thoroughly before

eating, drinking, or smoking.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state Liquid Odor Acrid

Appearance Liquid Odor threshold Not determined

**Color** Clear to colored

<u>Property</u> <u>Values</u> <u>Remarks / Method</u>

pH Not determined
Melting point / Freezing point
Boiling point / boiling range
Flash point
Evaporation rate
Flammability (solid, gas)
Not determined
Not determined
Not determined
Not determined
Not determined

Flammability limits in air

Upper flammability limit
Lower flammability limit
Vapor pressure
Vapor density

Not applicable
Not applicable
Not applicable

Specific gravity 0.891

Water solubility Not applicable Solubility in other solvents Not determined Partition coefficient Not determined Autoignition temperature 421°C / 790°F **Decomposition temperature** Not determined Kinematic viscosity Not determined Dynamic viscosity Not applicable **Explosive properties** Not determined Oxidizing properties Not determined

Other information

**Density** 0.891 g/mL

# 10. STABILITY AND REACTIVITY

Water = 1

Reactivity Not reactive under normal conditions

**Chemical stability** Stable under recommended storage conditions.

<u>Possibility of hazardous reactions</u> None under normal processing

**Hazardous polymerization** Hazardous polymerization may occur upon depletion of inhibitor. May cause heat and pressure build-up in closed containers.

### **Conditions to avoid**

For bulk quantities of >182 kgs (400lbs) – Prolonged 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 initiators, inert gases, oxygen scavengers. Material has strong solvent properties and can soften paint and rubber.

<u>Hazardous decomposition products</u> Acrid smoke-fumes/ carbon monoxide/carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

### 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposures

**Product information** 

**Inhalation** Harmful if inhaled.

Eye contact Causes severe eye irritation.

Skin contact Causes skin irritation.

Ingestion May be harmful if swallowed.

Jet Adjusters Liquid 031 v. 3 Page 5 of 7

#### **Component information**

Chemical Name	ORAL LD <sub>50</sub>	DERMAL LD <sub>50</sub>	INHALATION TCLo
Methyl Methacrylate 80-62-6	-	-	4,632 mg/L
Acetone 67-64-1	5800	>2000	<b>Vapor LD</b> ₅₀ 50.1

### Information on physical, chemical and toxicological effects

Symptoms Exposed individuals may experience eye tearing, redness and discomfort. Prolonged skin contact may cause

skin irritation and redness. 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 This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC,

ACGIH, NTP, or EPA classification.

**STOT – single exposure** May cause respiratory irritation.

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Chemical Name	Algae / aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Methyl Methacrylate 80-62-6	170: 96 h Psuedokirchneriella subcapitata mg/L EC50	243-275: 96 h Pimephales promelas mg/L LC50 flow-through; 125.5-190.7: 96 h Pimephales promelas mg/L LC50 static; 170-206: 96 h Lepomis macrochirus mg/L LC50 flow-through; 153.9-341.8: 96 h Lepomis macrochirus mg/L LC50 static; 326.4-426.9 96 h Poecilia reticulata mg/L LC50 static; >79: 96 h Oncorhynchus mykiss mg/L LC50 flow-through; >79: 96 h Oncorhynchus mykiss mg/L LC50 static;	-	69: 48 h Daphnia magna mg/L EC50

### 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.

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### 14. TRANSPORTATION INFORMATION

#### DOT

UN / ID No	UN1993
Proper shipping name	Flammable liquid, n.o.s. (Methyl Methacrylate monomer, stabilized /
	acetone solution)
Hazard Class	3
Packing Group	
Reportable Quantity (RQ)	1000 lb. (methyl methacrylate)

### **IATA**

UN / ID No	UN1993
Proper shipping name	Flammable liquid, n.o.s. (Methyl Methacrylate monomer, stabilized / acetone solution)
Hazard Class	3
Packing Group	

### **IMDG**

UN / ID No	UN1993
Proper shipping name	Flammable liquid, n.o.s. (Methyl Methacrylate monomer, stabilized / acetone solution)
Hazard Class	3
Packing Group	

### 15. REGULATORY INFORMATION

### **International Inventories**

For Methyl methacrylate:

TSCA Listed United States Toxic Substances Control Act, Section 8(b) Inventory

**DSL** Listed Canadian Domestic Substances List

EINECS Listed European Inventory of Existing Chemical Substances

**EU Regulations** EC No. 1272/2008 (CLP) Classification, Labeling, Packaging

Medical Devices Regulation 2017/745 - Class I Medical Devices

**US Federal Regulations** SARA 313 – Toxic chemicals – listed.

<u>US State Regulations</u> Not established

US State Right-to-Know Regulations California Proposition 65 – No Proposition 65 Reproductive Toxins exist in this product.

Pennsylvania – Methyl methacrylate CAS 80-62-6

### 16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability
	2	3	2
HMIS	Health Hazards	Flammability	Physical Hazards
	2	3	2

Effective Date 04-Jun-2018

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

Jet Adjusters Liquid 031 v. 3 Page 7 of 7



# **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)

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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.

Jet Adjusters Brush Cleaner, Thinner 060 v.1



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)

Contains methyl methacrylate.

for labeling

Hazards not otherwise classified (HNOC) Lachrymator.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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

<sup>\*</sup>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.

Hazardous Combustion Products: Carbon oxides

Sensitivity to Mechanical Impact: No Sensitivity to Static Discharge: 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

Jet Adjusters Brush Cleaner, Thinner 060 v.1

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.

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### 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.

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

#### 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.

Skin and body protection 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.

**Respiratory protection**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.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Liquid Odor Acrid

Appearance Liquid Odor threshold Not determined

**Color** Clear

<u>Property</u> <u>Values</u> <u>Remarks / Method</u>

pH Not determined

Melting point / freezing point

Boiling point / boiling range

101°C / 214° F

Flash point

11.5°C / 52.7°F

**Evaporation rate** 3.1 Butyl acetate = 1

Flammability (solid, gas) n/a (liquid)

Flammability limits in air

Upper flammability limit 12.5% Lower flammability limit 2.12% Vapor pressure 28mm Hg

 Vapor pressure
 28mm Hg
 @ 20°C

 Vapor density
 3.5
 @15.5°C (Air = 1)

Specific gravity 0.949
Water solubility 1.6 wt%
Solubility in other solvents Not determined

Solubility in other solvents

Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity
Explosive properties
Not determined

Other information

**Density** 0.949 g/mL

### 10. STABILITY AND REACTIVITY

Water = 1

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.

Jet Adjusters Brush Cleaner, Thinner 060 v.1

#### **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

### 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposures

#### **Product information**

**Inhalation** Harmful if inhaled.

Eye contact Causes severe eye irritation.

Skin contact Causes skin irritation.

Ingestion 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	-	Group 3	-	-
80-62-6				

#### 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.

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

	Chemical Name	Algae / aquatic plants	Fish	Toxicity to	Crustacea
				microorganisms	
Ī	Methyl	170: 96 h	125.5-190.7: 96 h Pimephales	-	69: 48 h Daphnia magna
	Methacrylate	Psuedokirchneriella	promelas mg/L LC50 static;		mg/L EC50
	80-62-6	subcapitata 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	0.7
80-62-6	

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	Toxic Ignitable
80-62-6	

# 14. TRANSPORTATION INFORMATION

### <u>DOT</u>

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

#### IATA

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

#### **IMDG**

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

### 15. REGULATORY INFORMATION

#### **International Inventories**

TSCA Listed United States Toxic Substances Control Act, Section 8(b) Inventory

**DSL** Listed Canadian Domestic Substances List

EINECS Listed European Inventory of Existing Chemical Substances

**EU Regulations** EC No. 1272/2008 (CLP) Classification, Labeling, Packaging

Medical Devices Directive 93/42/EEC - Class I Medical Devices

#### **US Federal Regulations**

Chemical Name	CAS	Weight %	SARA 313 Threshold Values %
Methyl Methacrylate	80-62-6	>95	1.0

## SARA 311 / 312 Hazard Categories

Chemical Name	CWA – Reportable	CWA – Toxic	CWA – Priority	CWA – Hazardous
	Quantities	Pollutants	Pollutants	Substances
Methyl Methacrylate 80-62-6	1000 lb.	-	-	X

Chemical Name	Hazardous Substances	CERCLA /	Reportable Quantity (RQ)
	RQs	SARA RQ	Final
Methyl Methacrylate 80-62-6	1000 lb.	-	1000 lb. / 454 kg

### **US State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Methyl Methacrylate	X	X	X
80-62-6			

# 16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability
	2	3	2
HMIS	Health Hazards	Flammability	Physical Hazards
	2	3	2

Issue Date 23-July-2015

Revision Date Revision Note

Information to be updated in due course Hazard pictograms listed in this SDS to be added to product label.

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

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