## **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 074591772

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 074591780 074591848

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# SAFETY DATA SHEET

and bridges

Effective Date 04-Jun-2018

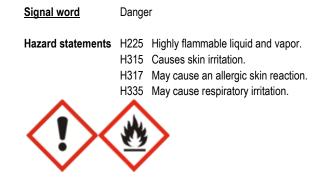
#### Version 3

	1. IDENTIFICATION	
<u>Product Identifier</u> Product Name	JET ADJUSTERS LIQUID	
Other means of identification		
SDS#	031	
UN/ID No	UN1993	
Product Code	3201, 3206, 3299	
Pacammandad usa of the cha	emical and restrictions on use	
Recommended Use		
Recommended Use	Custom characterization and staining of provisional crowns	
Details of the supplier of the s	safety data sheet	
Supplier Address	Lang Dental Mfg. Co., Inc.	
	175 Messner Dr.	
	Wheeling, IL 60090	
	USA	
Emergency telephone numbe	r	
Company Phone Number	<u>+</u> +1-847-215-6622	
Emergency Telephone (INFO)		
	800-535-5053 (North America)	
Authorized European Represe		
	11, rue Emile Zola – BP 2332 38033 Grenoble Cedex 2	
	France	
	Tel: +33 476 86 43 22	
	Fax: +33 476 17 19 82	
	Email: info@medimark-europe.com	

## 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



Jet Adjusters Liquid 031 v. 3

Appearance	Clear to colored	Physical state	Liquid	Odor	Acrid
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#### 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	*

\*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.

Jet Adjusters Liquid 031 v. 3

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

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.

## **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

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

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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 contain	ment 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	
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.

#### 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, suc	h 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
Appearance
Color

Liquid Liquid Clear to colored Odor Odor threshold Acrid Not determined

Property pH Melting point / Freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability limits in air	Values Not determined Not determined 101°C / 214° F 11.5°C / 52.7°F Not determined n/a (liquid)	<u>Remarks / Method</u>
Upper flammability limit	Not applicable	
Lower flammability limit	Not applicable	
Vapor pressure	Not applicable	
Vapor density	Not applicable	
Specific gravity	0.891	Water = 1
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**

Reactivity Not reactive under normal conditions

**<u>Chemical stability</u>** Stable under recommended storage conditions.

#### Possibility of hazardous reactions 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.

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#### **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	Vapor LD₅₀ 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.

## 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	I
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 metha	crylate:		
TSCA	Listed	United S	States Toxic Substances Control Act, Section 8(b) Inventory
DSL	Listed	Canadia	n Domestic Substances List
EINECS	Listed	Europea	In Inventory of Existing Chemical Substances
EU Regulations	EC No.	1272/2008	(CLP) Classification, Labeling, Packaging
	Medical	Devices Re	egulation 2017/745 - Class I Medical Devices
US Federal Regula	ations	SARA 3	13 – Toxic chemicals – listed.
US State Regulati	ons	Not esta	blished
US State Right-to-	Know Reg	ulations	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



Effective Date 09-Apr-2021

# SAFETY DATA SHEET

Version 2

	1. IDENTIFICATION	
<u>Product Identifier</u> Product Name	JET ADJUSTER BRUSH CLEANER, THINNER	
<u>Other means of identification</u> SDS# UN/ID No Product Code	060 UN1247 3201, 3206, 3299	
Recommended use of the che Recommended Use	mical and restrictions on use With Jet Adjusters colors: Thinning liquids and cleaning brushes	
<u>Details of the supplier of the s</u> Supplier Address	<u>afety data sheet</u> Lang Dental Mfg. Co., Inc. 175 Messner Dr. Wheeling, IL 60090 USA	
Emergency telephone number Company Phone Number Emergency Telephone (INFOT	+1-847-215-6622	
<u>Authorized European Represe</u>	entative MediMark <sup>®</sup> Europe SARL 11, rue Emile Zola – BP 2332 38033 Grenoble Cedex 2 France Tel: +33 476 86 43 22 Fax: +33 476 17 19 82 Email: info@medimark-europe.com	
Recommended use of the che Recommended Use Details of the supplier of the s Supplier Address Emergency telephone number Company Phone Number Emergency Telephone (INFOT	mical and restrictions on use With Jet Adjusters colors: Thinning liquids and cleaning brushes afety data sheet Lang Dental Mfg. Co., Inc. 175 Messner Dr. Wheeling, IL 60090 USA +1-847-215-6622 RAC) +1-352-323-3500 (International) 800-535-5053 (North America) entative MediMark <sup>®</sup> Europe SARL 11, rue Emile Zola – BP 2332 38033 Grenoble Cedex 2 France Tel: +33 476 86 43 22 Fax: +33 476 17 19 82	

## 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

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

Odor Acrid

Clear

#### 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 CO2, 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	< 100	*

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

## 4. FIRST AID MEASURES

First aid measures	
Inhalation	Remove victim to fresh air. Keep at rest in a position comfortable for breathing. Seek immediate medical attention.
Eye contact	Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. If irritation persists, call a physician immediately.
Ingestion	If ingested, do not induce vomiting. Drink plenty of water or milk immediately. If vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately and provide an estimate of when and how much material was ingested. Seek immediate medical attention.
Skin Contact	Wash with soap and water. If irritation, redness or swelling persists, call a physician immediately. Take off contaminated clothing and wash before reuse.
Most important symptoms a	and effects, both acute and delayed
Symptoms	No information available.
Indication of any immediate	medical attention and special treatment needed
Note to physicians	Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

Suitable: Chemical (alcohol-resistant) foam, dry chemical, or carbon dioxide,

Unsuitable: Water spray or water stream may not be effective.

#### 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. This product is flammable liquid. 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.

#### Special Fire Fighting Procedures

Use a water spray or fog to reduce or direct vapors, and keep containers cool. Water may not be effective in actually extinguishing a fire involving this product. Do not enter fire area without proper protection. Fight fire from a safe location. Structural firefighters must wear SCBAs and full protective equipment. Heat/Impurities may cause pressure to build and/or rupture closed containers, spreading fire, increasing risk of burns/injuries.

#### 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 a	nd clean-up
Method for containment	Prevent further leakage or spillage if safe to do so. Dike and contain spill with inert material. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. DO NOT use combustible materials such as sawdust. May contaminate water supply.
Method for clean-up	Maximize ventilation (open doors and windows) 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. 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. Keep away from heat, sparks, and flame. Keep container closed after each use. Ground and bond all containers when transferring. Observe precautions found on the label.
Conditions for safe storage, including a	nv 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 must be kept in contact with air (oxygen). Keep at temperature not exceeding 30°C/86 °F.
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	NIOSH
Methyl Methacrylate	STEL: 100 ppm	TWA:100 ppm	TWA:100 ppm
80-62-6	TWA: 50 ppm	TWA: 410 mg/m <sup>3</sup>	TWA: 410 mg/m <sup>3</sup>
ACCIH – American Conference of Covernmental Industrial Hydienists / OSHA – Occupational Safety and Health Administration			

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 For bulk size: 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. If anticipated that prolonged and repeated skin contact will occur during use of this product, wear Skin and body protection 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 No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per US OSHA requirement in 29 CFR SS 1910.134, or applicable US state regulations, or the appropriate standards of Canada, its provinces, or the EC member states. VENTILATION: Local exhaust at processing equipment. General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Food, beverages and tobacco products should not be carried, stored, or consumed

## 9. PHYSICAL AND CHEMICAL PROPERTIES

where this material is in use. Wash hands thoroughly before eating, drinking, or smoking.

#### Information on basic physical and chemical properties

Physical state Appearance Color	Liquid Liquid Clear	Odor Odor threshold	Acrid Not determined
Property pH Melting point / Freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability limits in air	<u>Values</u> Not determined Not determined 101°C / 214° F 12°C / 54°F Not determined n/a (liquid)	<u>Remarks / Method</u>	
Upper flammability limit Lower flammability limit Specific gravity Autoignition temperature <u>Other information</u> Density	Not applicable Not applicable 0.949 421°C / 790°F 0.949 g/mL	Water = 1	

## 10. STABILITY AND REACTIVITY

<u>Reactivity</u> Unstable/Reactive upon depletion of inhibitor.

Chemical stabilityStable under recommended storage conditions.Possibility of hazardous reactionsNone under normal processingHazardous polymerization Hazardous polymerization may occur.

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

 Mixture Toxicity
 Inhalation Toxicity: 4,632 mg/L

 Component Toxicity
 No data available

 Routes of Exposure
 No data available

 Target Organs – Eyes, Skin, Respiratory System
 Inhalation

 Inhalation
 Harmful if inhaled.

 Eye contact
 Causes severe eye irritation.

 Skin contact
 Causes skin irritation. May be harmful in contact with skin.

 Ingestion
 May be harmful if swallowed.

Product Components Listed as Carcinogenic None

## 12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae / aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Methyl Methacrylate 80-62-6	170: 96 h Pseudokirchneriella 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 Oecilia 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.

## 14. TRANSPORTATION INFORMATION

#### DOT

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

IATA

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

#### <u>IMDG</u>

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

## **15. REGULATORY INFORMATION**

International Inven Methyl methacrylate		
TSCA DSL EINECS	Listed Listed Listed	United States Toxic Substances Control Act, Section 8(b) Inventory Canadian Domestic Substances List European Inventory of Existing Chemical Substances
EU Regulations		272/2008 (CLP) Classification, Labeling, Packaging Devices Directive 93/42/EEC - Class I Medical Devices
<u>US Federal Regula</u>	tions.	SARA 302 – Extremely hazardous substance - not listed SARA 311/312 – Hazard categories – listed Methyl methacrylate 80-62-6 SARA 313 – Methyl Methacrylate 80-62-6

US State Regulations California Proposition 65 – Warning. This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin: None

US State Right-to-Know Regulations Not established

## **16. OTHER INFORMATION**

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

Effective Date 09-Apr-2021

#### 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