

SAFETY DATA SHEETS

This SDS packet was issued with item:

072761187

N/A



MATERIAL SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Lucitone® FasPor™ + Pourable Denture Base Liquid
Product Number: 682007, 682049, 682415
MSDS Code Number: 185

Manufacturer: Dentsply Prosthetics
Address: 570 West College Ave.
York, PA 17405-0872
Information Telephone Number: 717-845-7511
Emergency Telephone Number: 800-424-9300 Chemtrec
Email: Prosthetics_MSDS@Dentsply.com

Product Use: Denture base material

Date of Last Revision: October 11, 2007

SECTION 2 HAZARDS IDENTIFICATION

Emergency Overview: Flammable liquid and vapor. Hazardous polymerization may occur. May cause respiratory tract, eye and skin irritation. Prolonged or repeated contact may cause allergic skin reaction (skin sensitization). Inhalation of vapors may cause dizziness, headache, and other central nervous system effects.

EU Preparation Classification (1999/45/EC): F, Xi, R11, R37/38, R43

SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS

Ingredient	CAS No./EINECS No.	Percent	EC Substance Classification (67/548/EEC)
Methyl Methacrylate	80-62-6/201-297-1	90-100	F, Xi, R11, R37/38, R43
1,4-Butanediol dimethacrylate	2082-81-7 / 218-218-1	1-5	Xi, R36/37, R43

See Section 16 for further information on EU Classification.

SECTION 4 FIRST AID MEASURES

Eye Contact: Flush eyes with water for at least 15 minutes, holding the eyelids apart. Get immediate medical attention.

Skin Contact: Wash skin with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before re-use.

Ingestion: If small quantities are swallowed, rinse out mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious or drowsy person. Get immediate medical attention.

Inhalation: Remove victim to fresh air. If breathing is difficult, have qualified personnel administer oxygen, and obtain immediate medical attention.

SECTION 5 FIRE FIGHTING PROCEDURES

Extinguishing Media: Use carbon dioxide, foam, water spray or water fog.

Firefighting Procedures: Do not enter fire area without proper protection. Fight fire from safe distance or protected location. Firefighters should wear full emergency equipment and approved positive pressure self-contained breathing apparatus. Water may be ineffective unless used as a fine spray or fog. Use water to cool fire-exposed containers.

Unusual Fire/Explosion Hazards: Vapors are heavier than air and may travel to ignition source and flash back. Heat of fire may cause an exothermic autopolymerization reaction. Emits toxic fumes under fire conditions. Closed containers may explode due to pressure build up when exposed to extreme heat.

Known or Anticipated Hazardous Products of Combustion: Carbon monoxide, carbon dioxide, methyl methacrylate, and irritating smoke and fumes.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Provide explosion-proof ventilation. Wear appropriate protective clothing as described in Section 8. Eliminate all ignition sources. Contain and absorb spills with inert material and transfer to a suitable container for disposal. Do not allow spills to be released into the environment.

Personal Precautions: Avoid contact with skin, eyes or clothing. Avoid breathing vapors.

Environmental Precautions: Do not allow spills to enter sewers or waterways.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin, and clothing. Avoid breathing vapors or mist. Wash thoroughly after handling. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Keep away from heat, sparks and flames. Ground container when pouring. Do not expose to direct sunlight.

Empty containers retain product residues can be hazardous. Follow all MSDS precautions when handling empty containers.

Storage: Store in a cool, dry, well ventilated area. Keep container tightly closed when not in use. Do not store in direct sunlight. Prevent moisture contact. Protect from physical damage. Keep away from oxidizers and other incompatible materials.

SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational Exposure Limits:

Methyl Methacrylate	50 ppm TWA TLV 100 ppm STEL TLV 100 ppm PEL 50 ppm TWA DFG MAK 50 ppm TWA UK WEL 100 ppm STEL UK WEL
1,4-Butanediol dimethacrylate	None Established

Engineering Controls: Use ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits. Use explosion-proof equipment where required.

Personal Protective Equipment:

Eye Protection: Wear safety glasses when the possibility exists for eye contact due to splashing or spraying material.

Skin Protection: Wear nitrile rubber or other impervious gloves to minimize skin contact.

Respiratory Protection: An approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain limited circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure

air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. Selection and use of respiratory equipment must be in accordance with appropriate regulations and good industrial hygiene practice.

Other Protective Clothing or Equipment: Wear impervious clothing to prevent any contact with this product, such as gloves, apron, boots, or whole body suit.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Clear liquid, with an ester-like odor.

Boiling Point: 214°F (101°C)

Freezing Point: Not available

Solubility in Water: 1.6 g/L @ 68°F (20°C)

Vapor Pressure (mmHg): Not available

Evaporation Rate: >1 (Bac = 1)

% Volatile by Volume: 97%

Flammable Limits in Air: LEL: 2.1%

UEL: 12.5%

Melting Point: -54°F (-48°C)

Specific Gravity: 0.94

pH: Not available

Vapor Density: 3.45

Viscosity: Not applicable

Flashpoint: 50°F (10°C) TCC

Autoignition Temperature: 806°F (430°C)

SECTION 10 STABILITY AND REACTIVITY

Stability: Unstable if heated.

Conditions to Avoid (stability): Heat, sparks, open flame and other ignition sources, elevated temperatures, direct sunlight.

Incompatibility with Other Materials: Avoid contact with oxidizing agents, reducing agents, acids, and bases.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, methyl methacrylate, and irritating smoke and fumes.

Hazardous Polymerization: Polymerization can occur. Conditions leading to polymerization are excessive heat, oxygen-free atmosphere inhibitor depletion (due to excessive aging), direct sunlight, and contamination with polymerization catalysts.

SECTION 11 TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eyes: Liquid and vapors can cause moderate irritation (tears, blurred vision and redness).

Skin: May cause skin irritation with allergic skin reaction (skin sensitization).

Inhalation: May cause respiratory tract irritation with coughing, mucous production and shortness of breath. High concentration is irritating to the respiratory tract and may cause dizziness, headache and anesthetic effects.

Ingestion: Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

Chronic Health Effects: Prolonged or repeated overexposure may cause skin irritation or sensitization in some individuals, as well as kidney, lung, liver, and heart damage.

Carcinogenicity: None of the components of this product are listed as carcinogens by OSHA, IARC or NTP or the EU directive.

Mutagenicity: Methyl methacrylate has tested positive in some mutagenicity test.

Medical Conditions Aggravated by Exposure: Individuals with pre-existing skin conditions may be at increased risk from exposure.

Toxicological Data:

Methyl Methacrylate: Oral rat LD50: 7900 mg/kg; Dermal rabbit LD50: >35,500 mg/kg; Inhalation Rat LC50 4h: 7093 ppm

1,4-Butanediol dimethacrylate: Oral rat LD50: 10,120 mg/kg; Dermal rabbit LD50: >3,000 mg/kg

SECTION 12 ECOLOGICAL INFORMATION

Methyl Methacrylate	Fathead minnow LC50 96h: 130 mg/L
	Algae EC50 48h: 170 mg/L
1,4-Butanediol dimethacrylate	Fish LC50 48 h: 32.5 mg/L

SECTION 13 DISPOSAL CONSIDERATIONS

This product will polymerize when exposed to sunlight. The product should be disposed of in accordance with Federal, State and local regulations.

SECTION 14 TRANSPORT INFORMATION

DOT Shipping Name: Methyl Methacrylate Monomer, Stabilized
DOT Hazard Class: 3, PG II
UN Number: UN1247
DOT Labels Required (49CFR172.101): Flammable Liquid

IATA Shipping Name: Methyl Methacrylate Monomer, Stabilized
IATA Hazard Class: 3, PG II
UN Number: UN1247
IATA Hazard Labels Required: Flammable Liquid

IMDG Shipping Name: Methyl Methacrylate Monomer, Stabilized
IMDG Class: 3, PG II
UN Number: UN1247
IMDG Label: Flammable Liquid

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: Releases above the RQ of 1,000 lbs (based on the RQ for methyl methacrylate of 1,000 lbs present at 100% max) must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA TITLE III:

Hazard Category For Section 311/312: Acute Health, Chronic Health, Fire Hazard, Reactivity.

Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

Methyl Methacrylate	80-62-6	90-100%
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Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: This product is a medical device and not subject to chemical notification requirements.

U.S. STATE REGULATIONS

California Proposition 65: This product contains the following substances known to the state of California to cause reproductive toxicity (birth defects): Toluene <20 ppm

INTERNATIONAL REGULATIONS:

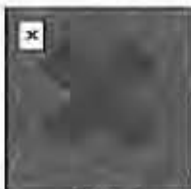
Canadian Environmental Protection Act: This product is a medical device and not subject to chemical notification requirements.

Canadian WHMIS Classification: Medical devices are not subject to WHMIS.

European Community Labeling: Contains Methyl Methacrylate



Highly Flammable



Irritant

R11 Highly flammable.
R37/38 Irritating to respiratory system and skin
R43 May cause sensitization by skin contact.
S16 Keep away from sources of ignition – No smoking.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical attention
S24/25 Avoid contact with skin and eyes.
S36/37 Wear suitable protective clothing and gloves.

European Inventory of New and Existing Chemicals Substances (EINECS): This product is a medical device and not subject to chemical notification requirements.

Australian Inventory of Chemical Substances: This product is a medical device and not subject to chemical notification requirements.

China Inventory of Existing Chemicals and Chemical Substances: This product is a medical device and not subject to chemical notification requirements.

Japanese Existing and New Chemical Substances: This product is a medical device and not subject to chemical notification requirements.

Korean Existing Chemicals List: This product is a medical device and not subject to chemical notification requirements.

Philippine Inventory of Chemicals and Chemical Substances: This product is a medical device and not subject to chemical notification requirements.

SECTION 16 OTHER INFORMATION

HMIS Hazard Rating:

Health – 2 Fire Hazard – 3 Reactivity – 2

EU Classes and Risk Phrases for Reference (See Sections 2 and 3):

F Flammable

Xi Irritant

R11 Highly flammable.

R36/37 Irritating to eyes and respiratory tract.

R37/38 Irritating to respiratory tract and skin.

R43 May cause sensitization by skin contact.

Revision Date: 10/11/2007

Supersedes: 08/13/2002

DENTSPLY International

DENTSPLY PROSTHETICS

Safety Data Sheet

Date Issued:
Document Number: 185
Date Revised: 03/17/2011
Revision Number: 4

1. PRODUCT IDENTIFICATION

Trade Name (as labeled):	Lucitone® FasPor™ + Pourable Denture Base Liquid
Product Identifier (Part/Item Number):	682007, 682049, 682415
U.N. Number:	UN1247
U.N. Dangerous Goods Classification:	3, PG II
Recommended Use:	Denture base material
Restrictions on Use:	For Professional Use Only
Manufacturer/Supplier Name:	Dentsply Prosthetics
Manufacturer/Supplier Address:	570 West College Ave. York, PA 17405-0872
Manufacturer/Supplier Telephone Number:	717-845-7511 (Product Information)
Emergency Contact Telephone Number:	800-424-9300 Chemtrec
Email address:	Prosthetics_MSDS@Dentsply.com

2. HAZARD(s) IDENTIFICATION

EU Classification (1999/45/EC): Highly Flammable (F), Irritant (Xi) R11, R37/38, R43

Refer to Section 16 for the full text of the EU Classifications and R Phrases.

Labeling in accordance with 1999/45/EC



Highly Flammable



Irritant

Contains Methyl Methacrylate
R37/38 Irritating to respiratory system and skin
R43 May cause sensitization by skin contact.
S16 Keep away from sources of ignition – No smoking.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical attention
S24/25 Avoid contact with skin and eyes.
S36/37 Wear suitable protective clothing and gloves.

US Hazard Classification: Hazardous.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Components	C.A.S. #	EINECS #	Substance Classification	WT %
Methyl Methacrylate	80-62-6	201-297-1	F, Xi, R11, R37/38, R43	90-100
1,4 Butanediol dimethacrylate	2082-81-7	218-218-1	Xi R36, R43	1-5

Refer to Section 16 for the full text of the GHS and H phrases and EU Classifications and R Phrases.





4. FIRST-AID MEASURES

Routes of Exposure	First Aid Instructions
Eye	Flush eyes with water for at least 15 minutes, holding the eyelids apart. Get immediate medical attention.
Skin	Wash skin with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before re-use.
Inhalation	Remove victim to fresh air. If breathing is difficult, have qualified personnel administer oxygen, and obtain immediate medical attention.
Ingestion	If small quantities are swallowed, rinse out mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious or drowsy person. Get immediate medical attention.
Most important symptoms of exposure	May cause respiratory tract, eye and skin irritation. Prolonged or repeated contact may cause allergic skin reaction (skin rash). May be harmful if swallowed, inhaled or absorbed through the skin. Inhalation of vapors may cause dizziness, headache, and other central nervous system effects.
Note to Physicians (Treatment, Testing, and Monitoring) Treat symptomatically.	

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Use carbon dioxide, foam, water spray or water fog.
Fire Fighting Procedures:	Fight fire from safe distance or protected location. Water may be ineffective unless used as a fine spray or fog. Use water to cool fire-exposed containers.
Specific Hazards Arising from the Chemical:	Vapors are heavier than air and may travel to ignition source and flash back. Heat of fire may cause an exothermic auto polymerization reaction. Emits toxic fumes under fire conditions. Closed containers may explode due to pressure build up when exposed to extreme heat.
Precautions for Fire Fighters:	Do not enter fire area without proper protection. Firefighters should wear full emergency equipment and approved positive pressure self-containing breathing apparatus.

Recommended Protective Equipment for Fire Fighters:

EYES/FACE	HANDS	RESPIRATORY	THERMAL
			





6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, PPE and Emergency Procedures: Wear appropriate protective clothing as described in Section 8. Avoid contact with skin, eyes or clothing. Avoid breathing vapors. Provide explosion-proof ventilation.

Environmental Precautions: Do not allow spills to be released into the environment. Report releases as required by local, state, and national authorities.

Methods and Materials for Containment and Clean-up: Contain and absorb spills with inert material and transfer to a suitable container for disposal.

Recommended Personal Protective Equipment for Containment and Clean-up:

EYES/FACE	HANDS	RESPIRATORY	SKIN
			

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with eyes, skin, and clothing. Avoid breathing vapors or mist. Wash thoroughly after handling. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Ground container when pouring. Do not expose to direct sunlight. Keep containers closed when not in use.

Empty containers retain product residues can be hazardous. Follow all MSDS precautions when handling empty containers.

Conditions for Safe Storage: Store in a cool, dry, well ventilated area. Keep container tightly closed when not in use. Do not store in direct sunlight. Prevent moisture contact. Protect from physical damage. Keep away from oxidizers and other incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

Methyl Methacrylate	50 ppm TWA ACGIH TLV, 100 ppm STEL 100 ppm OSHA PEL 50 ppm TWA DFG MAK 50 ppm TWA UK WEL, 100 ppm STEL
1,4-Butanediol dimethacrylate	None Established

Biological Exposure Limits: None Established

Appropriate Engineering Controls: Use ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits. Use explosion-proof equipment where required.

Individual Protection Measures (PPE)



Specific Eye/face Protection: Wear safety glasses when the possibility exists for eye contact due to splashing or spraying material.

Specific Skin Protection: Wear nitrile rubber or other impervious gloves to prevent skin contact. Wear impervious clothing if needed to prevent any contact with this product, such as gloves, apron, boots, or whole body suit.

Specific Respiratory Protection: None required with adequate ventilation. An approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain limited circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. Selection and use of respiratory equipment must be in accordance with appropriate regulations and good industrial hygiene practice.

Specific Thermal Hazards: None required.

Recommended Personal Protective Equipment

EYES/FACE	HANDS	RESPIRATORY	SKIN
			

Environmental Exposure Controls: Do not allow spills to enter sewers or waterways.

General Hygiene Considerations and Work Practices: Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

Protective Measures During Repair and Maintenance of Contaminated Equipment: Wear appropriate protective clothing and equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear Liquid	Explosive limits:	LEL: 2.1% UEL: 12.5%
Odor:	Ester-like odor	Vapor pressure:	29 mmHg @ 68°F(20°C)
Odor threshold:	Not available	Vapor density:	3.45
pH:	Not available	Relative density:	0.94
Melting/freezing point:	-54°F (-48°C)	Solubility:	1.6 g/L @ 20°C
Initial boiling point and range:	214°F (101°C)	Partition coefficient: n-octanol/water:	Not available
Flash point:	50°F (10°C) TCC	Auto-ignition temperature:	806°F (430°C)
Evaporation rate:	>1 (Bac = 1)	Decomposition temperature:	Not available

Flammability:	Flammable	Viscosity:	Not available
Explosive Properties:	Vapors may be explosive in confined areas	Oxidizing Properties:	None
% Volatile by Volume:	97%		

10. STABILITY AND REACTIVITY

Reactivity: Polymerization can occur.

Chemical Stability: Unstable if heated.

Possibility of Hazardous Reactions: Polymerization can occur. Conditions leading to polymerization are excessive heat, oxygen-free atmosphere inhibitor depletion (due to excessive aging), direct sunlight, and contamination with polymerization catalysts.

Conditions to Avoid: Heat, sparks, open flame and other ignition sources, elevated temperatures, direct sunlight.

Incompatible materials: Avoid contact with oxidizing agents, reducing agents, acids, and bases.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, methyl methacrylate, and irritating smoke and fumes.

11. TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eyes: Liquid and vapors can cause moderate irritation (tears, blurred vision and redness).

Skin: May cause skin irritation with allergic skin reaction (skin sensitization).

Ingestion: Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

Inhalation: May cause respiratory tract irritation with coughing, mucous production and shortness of breath. High concentration is irritating to the respiratory tract and may cause dizziness, headache and anesthetic effects.

Chronic Health Effects: Prolonged or repeated overexposure may cause skin irritation or sensitization in some individuals, as well as kidney, lung, liver, and heart damage.

Carcinogenicity: Methyl Methacrylate: The results of a 2-year inhalation studies conducted for NTP showed no evidence of carcinogenicity of methyl methacrylate for male rats exposed at 500 or 1,000 ppm and female rats exposed at 250, 500 or 1,000 ppm. In another study, no increase was seen in the number or type of tumors in either rats or hamsters from a chronic inhalation study. No carcinogenic activity was also reported in a chronic oral study. However, acute oral exposure studies and structure-activity relationship comparisons with other acrylates suggest that the introduction of a methyl group to the acrylate moiety (e.g., EC to MMA) negates carcinogenic activity. None of the components of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH or the EU Substances Directive.

Mutagenicity: Methyl Methacrylate: Negative in AMES test, positive and negative in in-vitro studies. Negative in vivo studies. 1,4 Butanediol Dimethacrylate: Positive for mutagenicity in the mouse lymphoma assay but was negative for mutagenicity in the Ames test.

Medical Conditions Aggravated by Exposure: Individuals with pre-existing skin conditions may be at increased risk from exposure.

Acute Toxicity Data:

Methyl Methacrylate: Oral rat LD50: 7900 mg/kg; Dermal rabbit LD50: >35,500 mg/kg; Inhalation Rat LC50 4h: 7093 ppm
1,4-Butanediol dimethacrylate: Oral rat LD50: 10,120 mg/kg; Dermal rabbit LD50: >3,000 mg/kg

Reproductive Toxicity Data: Methyl Methacrylate: In a study in rats, there were no developmental effects, although there were decreases in maternal body weight following inhalation of concentrations up to 8,315 mg/m³. There was no reduction in fertility in a dominant lethal assay in mice exposed to this compound at concentrations up to 36,900 mg/m³ and no adverse effects on reproductive organs in repeated dose studies conducted to date.

Specific Target Organ Toxicity (STOT):

Single Exposure: Methyl methacrylate: In an inhalation study with dogs, a 2000 ppm dose showed a drop in arterial blood pressure and GI motor activities. The lethal oral dose for methyl methacrylate is 6 to 9 g/kg in lab animals. Poisoned animals exhibit respiratory depression, and coma; also irritation of skin, eyes and respiratory tract.

Repeated Exposure: Methyl Methacrylate: Impairment of locomotor activity and learning and behavioral effects on the brain were observed in rats exposed orally to 500 mg/kg bw/day for 21 days.

12. ECOLOGICAL INFORMATION

Toxicity:

Methyl Methacrylate: Fathead minnow LC50 96h: 130 mg/L Algae EC50 48h: 170 mg/L

Persistence and Degradability: Methyl methacrylate is readily biodegradable - 88% after 28 days.

Bio-accumulative Potential: The potential for bioaccumulate is expected to be low for methyl methacrylate.

Mobility in Soil:

Methyl methacrylate: Is expected to have very high to high mobility in soil.

Other Adverse Effects: No data available

Results of PBT/vPvB Assessment: No data available

13. DISPOSAL CONSIDERATIONS

Regulations: Dispose in accordance with all national and local regulations.

Properties (Physical/Chemical) Affecting Disposal: This product will polymerize when exposed to sunlight. Empty containers retain product residues can be hazardous. Follow all MSDS precautions when handling empty containers.

Waste Treatment Recommendations: Dispose in accordance with national and local regulations.

14. TRANSPORT INFORMATION

UN Identification Number: UN1247

UN Proper Shipping Name: Methyl Methacrylate Monomer, Stabilized

Transport hazard class(es): 3
Packing Group: PG II
Special precautions for user: Flammable Liquid

15. REGULATORY INFORMATION

U.S. Federal Regulations

US OSHA Hazard Classification: Flammable Liquid, Irritant, Sensitizer, Target organ effects.

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): Releases above the RQ of 1,000 lbs (based on the RQ for methyl methacrylate of 1,000 lbs present at 100% max) must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Toxic Substances Control Act (TSCA): This product is a medical device and not subject to chemical notification requirements.

Clean Water Act (CWA): This material is not regulated under the Clean Water Act

Clean Air Act (CAA): Methyl methacrylate is regulated under the Clean Air Act

Superfund Amendments and Reauthorization Act (SARA) Title III Information:

SARA Section 311/312 (40 CFR 370) Hazard Categories:

Immediate Hazard:	Yes	Pressure Hazard:	No
Delayed Hazard:	Yes	Reactivity Hazard:	Yes
Fire Hazard:	Yes		

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):

Components	C.A.S. #	WT %
Methyl Methacrylate	80-62-6	90-100%

State Regulations

California: This product contains the following chemicals(s) known to the State of California to cause cancer, birth defects or reproductive harm: None

Components	C.A.S. #	WT %
Toluene	108-88-3	<20 ppm

International Regulations

Canadian Environmental Protection Act: This product is a medical device and not subject to chemical notification requirements.

Canadian Workplace Hazardous Materials Information System (WHMIS): Class D Division 2B: Toxic material causing other chronic effects.

European Inventory of Existing Chemicals (EINECS): This product is a medical device and not subject to chemical notification requirements.

EU REACH: All components requiring registration have been pre-registered.

Australian Inventory of Chemical Substances: This product is a medical device and not subject to chemical notification requirements.

China Inventory of Existing Chemicals and Chemical Substances: This product is a medical device and not subject to chemical notification requirements.

Korean Existing Chemicals List: This product is a medical device and not subject to chemical notification requirements.

Philippine Inventory of Chemicals and Chemical Substances: This product is a medical device and not subject to chemical notification requirements.

16. OTHER INFORMATION

HMIS Hazard Rating:

Health – 2 Flammability – 3 Physical Hazard – 2

Full text of Classification abbreviations used in Section 2 and 3:

F Flammable

Xi Irritant

R11 Highly flammable.

R36 Irritating to eyes.

R37/38 Irritating to respiratory tract and skin.

R43 May cause sensitization by skin contact.

Supersedes: October 11, 2007

Revision Summary: Change in format. Comprehensive review. Changes to all sections.

Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for components, IUCLID Dataset EU Chemical Bureau, ESIS, Country websites for occupational exposure limits.