Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • **W70CFAPMMA - AC Primer**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) • Roof Coating

1.3 Details of the supplier of the safety data sheet

Manufacturer
- Holcim Solutions and Products US, LLC
- 26 Century Boulevard, Suite 205
- Nashville, TN 37214
  holcimelevate.com

Telephone (General) • 800-428-4442

1.4 Emergency telephone number

Manufacturer • (800) 424-9300 - CHEMTREC

Manufacturer • (703) 527-3887 - CHEMTREC - International

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

2.1 Classification of the substance or mixture

CLP
- Flammable Liquids 2 - H225
  Skin Irritation 2 - H315
  Skin Sensitization 1 - H317
  Eye Irritation 2 - H319
  Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335

2.2 Label Elements

CLP

DANGER

Hazard statements
- H225 - Highly flammable liquid and vapour
  H315 - Causes skin irritation
  H317 - May cause an allergic skin reaction
  H319 - Causes serious eye irritation
  H335 - May cause respiratory irritation

Precautionary statements

Prevention
- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.
P240 - Ground and/or 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 mist, vapours and/or spray.
P264 - Wash 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.

Response •
P370+P378 - In case of fire: Use appropriate media for extinction.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 - Call a POISON CENTER/doctor if you feel unwell.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P321 - Specific treatment, see supplemental first aid information.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.

Storage/Disposal •
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P235 - Keep cool.
P405 - Store locked up.
P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other Hazards

CLP

- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012

- Flammable Liquids 2
  Skin Irritation 2
  Skin Sensitization 1
  Eye Irritation 2
  Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation

2.2 Label elements

OSHA HCS 2012

DANGER

Hazard statements •
Highly flammable liquid and vapour
Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation
May cause respiratory irritation

Precautionary statements

Prevention •
Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
Keep container tightly closed.
Ground and/or bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.

Take precautionary measures against static discharge.
Avoid breathing mist, vapours, and/or spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.

Response • In case of fire: Use appropriate media for extinction.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor if you feel unwell.
If on skin: Wash with plenty of water.
Specific treatment, see supplemental first aid information.
Take off contaminated clothing and wash before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Storage/Disposal • Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

OSHA HCS 2012 • Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to: WHMIS 2015

2.1 Classification of the substance or mixture

WHMIS 2015 • Flammable Liquids 2
Skin Irritation 2
Skin Sensitization 1
Eye Irritation 2
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation

2.2 Label elements

WHMIS 2015

DANGER

Hazard statements • Highly flammable liquid and vapour
Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation
May cause respiratory irritation

Precautionary statements

Prevention • Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion-proof electical/ventilating/lighting/ equipment.
Use non-sparking tools.
Take action to prevent static discharges.
Avoid breathing mist, vapours, and/or spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

Response • In case of fire: Use appropriate media for extinction.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor if you feel unwell.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
Take off contaminated clothing and wash it before reuse.
Specific treatment, see supplemental first aid information.
If skin irritation or rash occurs: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Storage/Disposal • Store in a well-ventilated place. Keep container tightly closed.
Keep cool.
Store locked up.
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

WHMIS 2015 • In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances

• Material does not meet the criteria of a substance.

3.2 Mixtures

Composition					
Chemical Name	**Identifiers**	**%**	**LD50/LC50**	**Classifications According to Regulation/Directive**	**Comments**
Methyl Methacrylate	**CAS:**80-62-6 **EC Number:**201-297-1 **EU Index:**607-035-00-6	60% TO 100%	Ingestion/Oral-Rat LD50 • 7872 mg/kg Inhalation-Rat LC50 • 78000 mg/m³ 4 Hour(s) Skin-Rabbit LD50 • >5 g/kg	**EU CLP:** Annex VI, Table 3.1: Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3: Resp. Irrit., H335 **OSHA HCS 2012:** Flam. Liq. 2; Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1; Muta. 2 (Inhl); Repr. 1B (Inhl); STOT SE 3: Narc.; STOT SE 3: Resp. Irrit. (Inhl); STOT RE 2 (Lung / Inhl) **WHMIS 2015:** Flam. Liq. 2; Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1; Muta. 2 (Inhl); Repr. 1B (Inhl); STOT SE 3: Narc.; STOT SE 3: Resp. Irrit. (Inhl); STOT RE 2 (Lung / Inhl)	NDA
Tetramethylene Dimethacrylate	**CAS:**2082-81-7 **EINECS:**218-218-1	<= 10%	NDA	**EU CLP:** Skin Irrit. 2, H315; Eye Irrit. 2, H319 **OSHA HCS 2012:** Skin Irrit. 2; Eye Irrit. 2 **WHMIS 2015:** Skin Irrit. 2; Eye Irrit. 2	NDA
2-Ethylhexyl Acrylate	**CAS:**103-11-7 **EC Number:**203-080-7 **EU Index:**607-107-00-7	1% TO 5%	Skin-Rabbit LD50 • 8480 µL/kg Ingestion/Oral-Rat LD50 • 6700 mg/kg	**EU CLP:** EU CLP, Annex VI, Table 3.1: STOT SE 3, H335; Skin Irrit. 2, H315; Skin Sens. 1, H317 **OSHA HCS 2012:** Flam. Liq. 4; Skin irrit. 2; Eye Irrit. 2; Skin Sens. 1; STOT SE 3: Resp. Irrit. **WHMIS 2015:** Flam. Liq. 4; Skin irrit. 2; Eye Irrit. 2; Skin Sens. 1; STOT SE 3: Resp. Irrit	NDA

2,2'-[(4-methylphenyl)imino] bisethanol	**CAS:**3077-12-1 **EINECS:**221-359-1	1% TO 5%	NDA	**EU CLP:** Acute Tox. 4, H302 **OSHA HCS 2012:** Acute Tox. 4 (Orl) **WHMIS 2015:** Acute Tox. 4 (Orl)	NDA

Specific chemical identities and/or percentages of composition are being withheld as trade secrets.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation
- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin
- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. If skin irritation occurs: Get medical advice/attention.

Eye
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion
- Do NOT induce vomiting. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media
- CO_2, sand, extinguishing powder.

Unsuitable Extinguishing Media
- Do not use a direct stream of water.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
- Containers may explode when heated.
  Vapor explosion hazard indoors, outdoors or in sewers.
  HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
  Many liquids are lighter than water.
  Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
  Runoff to sewer may create fire or explosion hazard.
  Vapors may form explosive mixtures with air.
  Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products
- No data available

5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection.
  Wear positive pressure self-contained breathing apparatus (SCBA).
  Move containers from fire area if you can do it without risk.
  LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. LARGE SPILL: Consider initial downwind evacuation for at least 300 meters (1000 feet) ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stay upwind. Keep out of low areas.

6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Stop leak if you can do it without risk.
  Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
  Use clean non-sparking tools to collect absorbed material.
  A vapor suppressing foam may be used to reduce vapors.
  All equipment used when handling the product must be grounded.
  LARGE SPILLS: Dike far ahead of liquid spill for later disposal.
  LARGE SPILLS: Water spray may reduce vapor; but may not prevent ignition in closed spaces.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

- Use only in well ventilated areas. Keep away from heat, sparks, and flame. All equipment used when handling the product must be grounded. Bond and ground all transfer containers and equipment. Take precautionary measures against static charges. Do not use sparking tools. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing mist, vapours, spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Keep container tightly closed. Store in a cool, dry, well-ventilated place.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines						
	Result	**ACGIH**	**Belgium**	**Canada Alberta**	**Canada British Columbia**	**Canada Manitoba**
Methyl Methacrylate (80-62-6)	STELs	100 ppm STEL	100 ppm STEL; 416 mg/m3 STEL	100 ppm STEL; 410 mg/m3 STEL	100 ppm STEL	100 ppm STEL
	TWAs	50 ppm TWA	50 ppm TWA; 208 mg/m3 TWA	50 ppm TWA; 205 mg/m3 TWA	50 ppm TWA	50 ppm TWA

Exposure Limits/Guidelines (Con't.)						
	Result	**Canada New Brunswick**	**Canada Northwest Territories**	**Canada Nova Scotia**	**Canada Nunavut**	**Canada Ontario**
Methyl Methacrylate (80-62-6)	TWAs	100 ppm TWA; 410 mg/m3 TWA	50 ppm TWA	50 ppm TWA	50 ppm TWA	50 ppm TWA
	STELs	Not established	100 ppm STEL	100 ppm STEL	100 ppm STEL	100 ppm STEL

Exposure Limits/Guidelines (Con't.)						
	Result	**Canada Quebec**	**Canada Saskatchewan**	**Canada Yukon**	**China**	**Cyprus**
Methyl Methacrylate (80-62-6)	STELs	Not established	Not established	125 ppm STEL; 510 mg/m3 STEL	150 mg/m3 STEL	100 ppm STEL
	TWAs	50 ppm TWAEV; 205 mg/m3 TWAEV	50 ppm TWA	100 ppm TWA; 410 mg/m3 TWA	100 mg/m3 TWA	50 ppm TWA

Exposure Limits/Guidelines (Con't.)						
	Result	**Denmark**	**Germany DFG**	**Germany TRGS**	**NIOSH**	**OSHA**
Methyl Methacrylate (80-62-6)	TWAs	25 ppm TWA; 102 mg/m3 TWA	Not established	50 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 210 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	100 ppm TWA; 410 mg/m3 TWA	100 ppm TWA; 410 mg/m3 TWA
	Ceilings	Not established	100 ppm Peak; 420 mg/m3 Peak	Not established	Not established	Not established
	MAKs	Not established	50 ppm TWA MAK; 210 mg/m3 TWA MAK	Not established	Not established	Not established

Exposure Control Notations

ACGIH

•Methyl Methacrylate (80-62-6): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen) | **Sensitizers:** (dermal sensitizer)

Germany DFG

•Methyl Methacrylate (80-62-6): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Sensitizers:** (skin sensitizer)

•Tetramethylene Dimethacrylate (2082-81-7): **Sensitizers:** (skin sensitizer)

Exposure Limits Supplemental

ACGIH

•Methyl Methacrylate (80-62-6): **TLV Basis - Critical Effects:** (body weight effects; eye and upper respiratory tract irritation; pulmonary edema)

8.2 Exposure controls

Engineering Measures/Controls

- This material is designed to be used outdoors, in roofing applications. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof electrical/ventilating/lighting/equipment.

Personal Protective Equipment

Respiratory	• In case of insufficient ventilation, wear suitable respiratory equipment.
Eye/Face	• Wear protective eyewear (goggles, face shield, or safety glasses).
Skin/Body	• Wear appropriate gloves.
Environmental Exposure Controls	• Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene
MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration
NIOSH = National Institute of Occupational Safety and Health
OSHA = Occupational Safety and Health Administration
STEL = Short Term Exposure Limits are based on 15-minute exposures
TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures
TWAEV = Time-Weighted Average Exposure Value

Section 9 - Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Liquid with acrid odor. Color according to product specification.
Color	According to product specification.	Odor	Acrid
Odor Threshold	Data lacking		
General Properties			
Boiling Point	101 °C(213.8 °F)	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	Data lacking	Density	0.944 g/mL
Water Solubility	Negligible < 0.1 %	Viscosity	Data lacking
Explosive Properties	Data lacking	Oxidizing Properties:	Data lacking
Volatility			
Vapor Pressure	35.25 mmHg (torr) @ 20 °C(68 °F)	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	10 °C(50 °F)	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Keep away from heat, sparks, and flame.

10.5 Incompatible materials

- No data available

10.6 Hazardous decomposition products

- None known.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
Methyl Methacrylate (60% TO 100%)	80-62-6	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 7872 mg/kg; *Behavioral*:**Muscle weakness**; *Behavioral*:**Coma**; *Lungs, Thorax, or Respiration*:**Respiratory depression**; Inhalation-Rat LC50 • 78000 mg/m³ 4 Hour(s); Skin-Rabbit LD50 • >5 g/kg; *Skin and Appendages:After systemic exposure*:**Dermatitis, other**; **Irritation:** Eye-Rabbit • 150 mg; Skin-Rabbit • 10 g-Open; **Multi-dose Toxicity:** Inhalation-Rat TCLo • 500 ppm 6 Hour(s) 2 Year(s)-Intermittent; *Sense Organs and Special Senses:Olfaction*:**Other changes**; *Lungs, Thorax, or Respiration*:**Fibrosis, focal (pneumoconiosis)**; Inhalation-Rat TCLo • 115 mg/m³ 3 Hour(s) 17 Week(s)-Intermittent; *Cardiac*:**EKG changes not diagnostic of above**; *Blood*:**Other changes**; **Mutagen:** Cytogenetic analysis • Inhalation-Rat • 4 mg/m³ 16 Week(s); **Reproductive:** Inhalation-Rat TCLo • 500 mg/m³ (122D pre); *Reproductive Effects:Specific Developmental Abnormalities*:**Other developmental abnormalities**; Inhalation-Rat TCLo • 54 mg/m³ 24 Hour(s)(8W pre); *Reproductive Effects:Maternal Effects*:**Menstrual cycle changes or disorders**; Inhalation-Woman TCLo • 10 mg/m³ (9Y preg); *Reproductive Effects:Maternal Effects*:**Other effects**; *Reproductive Effects:Effects on Embryo or Fetus*:**Extra embryonic structures**; *Reproductive Effects:Effects on Newborn*:**Delayed effects**
Tetramethylene Dimethacrylate (<= 10%)	2082-81-7	**Irritation:** Skin-Woman • 2 % 48 Hour(s)
2,2'-[(4-methylphenyl)imino] bisethanol (1% TO 5%)	3077-12-1	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 970 mg/kg; *Peripheral Nerve and Sensation*:**Flaccid paralysis without anesthesia (usually neuromuscular blockage)**; *Behavioral*:**Ataxia**; *Lungs, Thorax, or Respiration*:**Respiratory depression**
2-Ethylhexyl Acrylate (1% TO 5%)	103-11-7	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 6700 mg/kg; Skin-Rabbit LD50 • 8480 µL/kg; **Irritation:** Skin-Rabbit • 10 mg 24 Hour(s)-Open • Severe irritation; **Multi-dose Toxicity:** Ingestion/Oral-Rat TDLo • 900 mg/kg 60 Day(s)-Intermittent; *Behavioral*:**Changes in psychophysiological tests**; *Blood*:**Changes in serum composition (e.g., TP, bilirubin cholesterol)**; *Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels*:**True cholinesterase**; **Tumorigen / Carcinogen:** Skin-Mouse TDLo • 187 g/kg 78 Week(s)-Intermittent; *Tumorigenic*:**Carcinogenic by RTECS criteria**; *Skin and Appendages:Other*:**Tumors**; *Tumorigenic*:**Tumors at site of application**

GHS Properties	Classification
Acute toxicity	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking **WHMIS 2015** • Data lacking
Skin corrosion/Irritation	**EU/CLP** • Skin Irritation 2 **OSHA HCS 2012** • Skin Irritation 2 **WHMIS 2015** • Skin Irritation 2
Serious eye damage/Irritation	**EU/CLP** • Eye Irritation 2 **OSHA HCS 2012** • Eye Irritation 2

	WHMIS 2015 • Eye Irritation 2
Skin sensitization	**EU/CLP** • Skin Sensitizer 1 **OSHA HCS 2012** • Skin Sensitizer 1 **WHMIS 2015** • Skin Sensitizer 1
Respiratory sensitization	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking **WHMIS 2015** • Data lacking
Aspiration Hazard	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking **WHMIS 2015** • Data lacking
Carcinogenicity	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking **WHMIS 2015** • Data lacking
Germ Cell Mutagenicity	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking **WHMIS 2015** • Data lacking
Toxicity for Reproduction	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking **WHMIS 2015** • Data lacking
STOT-SE	**EU/CLP** • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation **OSHA HCS 2012** • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation **WHMIS 2015** • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
STOT-RE	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking **WHMIS 2015** • Data lacking

Potential Health Effects

Inhalation

Acute (Immediate)
- May cause respiratory irritation.

Chronic (Delayed)
- No data available

Skin

Acute (Immediate)
- Causes skin irritation. May cause skin sensitization. Symptoms include redness, and skin rash.

Chronic (Delayed)
- No data available

Eye

Acute (Immediate)
- Causes serious eye irritation.

Chronic (Delayed)
- No data available

Ingestion

Acute (Immediate)
- No data available

Chronic (Delayed)
- No data available

Key to abbreviations

LC = Lethal Concentration
LD = Lethal Dose
TC = Toxic Concentration

Section 12 - Ecological Information

12.1 Toxicity

- Material data lacking.

12.2 Persistence and degradability

- Material data lacking.

12.3 Bioaccumulative potential

- Material data lacking.

12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- PBT and vPvB assessment has not been carried out.

12.6 Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN1993	Flammable liquids, n.o.s. (Methyl methacrylate monomer, stabilized)	3	II	NDA
TDG	UN1993	FLAMMABLE L I QUID, N. O . S . (METHYL METHACRYLATE MONOMER, STABILIZED)	3	II	NDA
IMO/IMDG	UN1993	FLAMMABLE L I QUID, N. O . S . (METHYL METHACRYLATE MONOMER, STABILIZED)	3	II	NDA
IATA/ICAO	UN1993	Flammable liquids, n.o.s. (Methyl methacrylate monomer, stabilized)	3	II	NDA

14.6 Special precautions for user
- None specified.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
- Data lacking.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

State Right To Know				
Component	**CAS**	**MA**	**NJ**	**PA**
Tetramethylene Dimethacrylate	2082-81-7	No	No	No
Methyl Methacrylate	80-62-6	Yes	Yes	Yes

Inventory						
Component	**CAS**	**Canada DSL**	**Canada NDSL**	**China**	**EU EINECS**	**EU ELNICS**
Tetramethylene Dimethacrylate	2082-81-7	Yes	No	Yes	Yes	No
Methyl Methacrylate	80-62-6	Yes	No	Yes	Yes	No

Inventory (Con't.)				
Component	**CAS**	**Japan ENCS**	**Korea KECL**	**TSCA**
Tetramethylene Dimethacrylate	2082-81-7	Yes	No	Yes
Methyl Methacrylate	80-62-6	Yes	Yes	Yes

Belgium

Labor

Belgium - Substances and Preparations - Carcinogens and Mutagens

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

Bulgaria

Environment

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 24 Hour

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	0.1 mg/m3 MAHCL

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 30 Minute

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	0.1 mg/m3 MAHCL

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - Annual

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

Canada

Labor

Canada - WHMIS 1988 - Classifications of Substances

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	B2, D2B

Canada - WHMIS 1988 - Ingredient Disclosure List

• Tetramethylene Dimethacrylate	2082-81-7	1 %
• Methyl Methacrylate	80-62-6	1 %

Environment

Canada - CEPA - Priority Substances List

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed Priority Substance List 1

• Methyl Methacrylate	80-62-6	(substance not considered toxic)

China

Other

China - Annex I & II - Controlled Chemicals Lists

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

Denmark

Environment

Denmark - List of Undesirable Substances - Product Groups/Function

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

Europe

Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification (OBSOLETE)

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	F; R11 Xi; R37/38 R43

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits (OBSOLETE)

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling (OBSOLETE)

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	F Xi R:11-37/38-43 S:(2)-24-37-46

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations (OBSOLETE)

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	D

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases (OBSOLETE)

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	S:(2)-24-37-46

Germany

Labor

Germany - Immission Control - Qualifying Quantities for Major Accident Prevention

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

Germany - Immission Control - Qualifying Quantities for Safety Reporting

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

Germany - TRGS 505 - Specific Lead Regulations

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

Environment

Germany - TA Luft - Types and Classes

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

Germany - TA Luft - Emission Limits for Carcinogenic Substances

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

Germany - TA Luft - Emission Limits for Fibers

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Dusts

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Gases

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

Germany - TA Luft - Emission Limits for Organic Substances

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

Germany - Water Classification (VwVwS) - Annex 1

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	ID Number 154, hazard class 1 - low hazard to waters

Germany - Water Classification (VwVwS) - Annex 3

• Tetramethylene Dimethacrylate	2082-81-7	ID Number 4739, hazard class 1 - low hazard to waters
• Methyl Methacrylate	80-62-6	Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	1000 lb final RQ; 454 kg final RQ

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	1.0 % de minimis concentration

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Included in waste stream: F039

U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	waste number U162

U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	

U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	0.14 mg/L (wastewater); 160 mg/kg (nonwastewater)

U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	

U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	waste number U162 (ignitable waste, toxic waste)

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed
U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed
U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)		
• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Female		
• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Male		
• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List		
• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances		
• Tetramethylene Dimethacrylate	2082-81-7	Not Listed
• Methyl Methacrylate	80-62-6	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Revision Date
- 20/July/2018

Preparation Date
- 10/March/2016

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Key to abbreviations

NDA = No Data Available