

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : Component Bonder

1.2. Recommended use and restrictions on use

Recommended use : Adhesives, sealants
 Restrictions on use : No additional information available

1.3. Supplier

Integra Adhesives
 600 Ellis Road
 27703 Durham, NC - USA
 T 1-919-598-2400
www.integra-adhesives.com



1.4. Emergency telephone number

Emergency number : Transportation and Medical: CHEMTEL Tel. 800-255-3924; +1 813-248-0585 (International)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS classification

Flammable liquids, Category 2	H225 Highly flammable liquid and vapour.
Skin corrosion/irritation, Category 1A	H314 Causes severe skin burns and eye damage.
Skin sensitisation, Category 1	H317 May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351 Suspected of causing cancer.
Reproductive toxicity, Category 2	H361 Suspected of damaging fertility or the unborn child.
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335 May cause respiratory irritation.

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Danger

Hazard statements (GHS) :

H225 - Highly flammable liquid and vapour.
 H314 - Causes severe skin burns and eye damage.
 H317 - May cause an allergic skin reaction.
 H335 - May cause respiratory irritation.
 H351 - Suspected of causing cancer.
 H361 - Suspected of damaging fertility or the unborn child.

Precautionary statements (GHS) :

P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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.
 P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 - Wash hands, forearms and face thoroughly after handling.
 P271 - Use only outdoors or in a well-ventilated area.
 P272 - Contaminated work clothing must not be allowed out of the workplace
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting

Component Bonder

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada HPR

P302+P352 - If on skin: Wash with plenty of water/...
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P310 - Immediately call a poison center/doctor/...
P312 - Call a poison center/doctor if you feel unwell
P321 - Specific treatment (see supplemental first aid instruction on this label)
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
P370+P378 - In case of fire: Use media other than water to extinguish.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS_US)

11.62% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

11.62% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

11.62% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS classification
Methyl methacrylate	(CAS-No.) 80-62-6	60 - 70	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335
Methyl methacrylate/Butadiene/Styrene Copolymer	(CAS-No.) 25053-09-2	3 - 7	Eye Irrit. 2B, H320 Skin Sens. 1B, H317
Methacrylic acid	(CAS-No.) 79-41-4	3 - 7	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1A, H314
3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	(CAS-No.) 34562-31-7	1 - 3	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
2,6-di-tert-butyl-4-methylphenol	(CAS-No.) 128-37-0	0.3 - 0.7	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Muta. 2, H341 Carc. 2, H351 Repr. 2, H361 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-(2-ethoxyethoxy)ethyl acrylate	(CAS-No.) 7328-17-8	0.1 - 0.5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
Methacrylate acid ester	(CAS-No.) 52628-03-2	0.1 - 0.5	Skin Irrit. 2, H315 Skin Sens. 1, H317
cumene	(CAS-No.) 98-82-8	0.01 - 0.2	Flam. Liq. 3, H226 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

*Chemical name, CAS number and/or exact concentration have been withheld as a 52628-03-2

Full text of hazard classes and H-statements : see section 16

Component Bonder

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada HPR

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- First-aid measures after skin contact : Take off immediately all contaminated clothing and wash it before reuse. Wash skin thoroughly with mild soap and water. Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Get medical advice/attention.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects : Suspected of causing cancer. Suspected of damaging fertility or the unborn child.
- Symptoms/effects after inhalation : May cause respiratory irritation.
- Symptoms/effects after skin contact : May cause an allergic skin reaction. Causes severe skin burns and eye damage. Itching. Redness. Swelling. Blisters.
- Symptoms/effects after eye contact : Causes serious eye damage. Can cause blindness.
- Symptoms/effects after ingestion : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

- Fire hazard : Highly flammable liquid and vapour. Flammable vapours may accumulate in the container.
- Explosion hazard : May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Do not breathe aerosol. Do not breathe vapour. Do not get in eyes, on skin, or on clothing. Do NOT taste or swallow. Do not touch spilled material. Ensure adequate ventilation. Use personal protective equipment as required.

6.1.1. For non-emergency personnel

- Protective equipment : Refer to section 8.2.
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Refer to section 8.2.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Component Bonder

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada HPR

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Use only non-sparking tools. Do not breathe aerosol. Avoid contact during pregnancy/while nursing. Do not breathe vapours. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Comply with applicable regulations.

Storage conditions : Keep only in the original container. Keep in fireproof place. Keep container tightly closed.

Incompatible products : Strong bases. Strong acids. Strong oxidizers. Free radical initiators. Combustible products.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

Prohibitions on mixed storage : Incompatible materials.

Storage area : Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component Bonder	
No additional information available	
Methyl methacrylate (80-62-6)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Methyl methacrylate
ACGIH TWA (mg/m ³)	205 mg/m ³
ACGIH TWA (ppm)	50 ppm
ACGIH STEL (mg/m ³)	410 mg/m ³
ACGIH STEL (ppm)	100 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr; body weight eff; pulm edema. Notations: DSEN; A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2019
USA - OSHA - Occupational Exposure Limits	
Local name	Methyl methacrylate
OSHA PEL (TWA) (mg/m ³)	410 mg/m ³
OSHA PEL (TWA) (ppm)	100 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA) (mg/m ³)	410 mg/m ³
NIOSH REL (TWA) (ppm)	100 ppm
Methyl methacrylate/Butadiene/Styrene Copolymer (25053-09-2)	
No additional information available	
2-(2-ethoxyethoxy)ethyl acrylate (7328-17-8)	
No additional information available	
Methacrylate acid ester (52628-03-2)	
No additional information available	

Component Bonder

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada HPR

cumene (98-82-8)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Cumene
ACGIH TWA (mg/m ³)	246 mg/m ³
ACGIH TWA (ppm)	0.1 ppm
Remark (ACGIH)	Lung cancer; liver and lung dam; A2 (Suspected Human Carcinogen: Human data are accepted as adequate in quality but are conflicting or insufficient to classify the agent as a confirmed human carcinogen; OR, the agent is carcinogenic in experimental animals at dose(s), by route(s) of exposure, at site(s), of histologic type(s), or by mechanism(s) considered relevant to worker exposure. The A2 is used primarily when there is limited evidence or carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals with relevance to humans)
USA - OSHA - Occupational Exposure Limits	
Local name	Cumene
OSHA PEL (TWA) (mg/m ³)	245 mg/m ³
OSHA PEL (TWA) (ppm)	50 ppm
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA) (mg/m ³)	245 mg/m ³
NIOSH REL (TWA) (ppm)	50 ppm
Methacrylic acid (79-41-4)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Methacrylic acid
ACGIH TWA (mg/m ³)	70 mg/m ³
ACGIH TWA (ppm)	20 ppm
Remark (ACGIH)	TLV® Basis: Skin & eye irr
Regulatory reference	ACGIH 2019
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA) (mg/m ³)	70 mg/m ³
NIOSH REL (TWA) (ppm)	20 ppm
3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine (34562-31-7)	
No additional information available	
2,6-di-tert-butyl-4-methylphenol (128-37-0)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Butylated hydroxytoluene
ACGIH TWA (mg/m ³)	2 mg/m ³
Remark (ACGIH)	URT irr
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA) (mg/m ³)	10 mg/m ³

8.2. Appropriate engineering controls

Appropriate engineering controls : Avoid creating mist or spray. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.

Environmental exposure controls : Prevent leakage or spillage.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear suitable gloves resistant to chemical penetration. Butyl rubber gloves. barrier laminate. Fluoroelastomer (FKM)

Eye protection:

Chemical goggles or safety glasses. face shield

Skin and body protection:

Wear suitable protective clothing. Chemical resistant apron. Chemical resistant safety shoes

Component Bonder

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada HPR

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Approved organic vapour respirator. Appropriate dust or mist respirator should be used if airborne particles are generated when handling this material

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Paste.
Colour	: white Purple
Odour	: Solvent
Odour threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapour.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 30000 - 100000 cP
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions. Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Hazardous Polymerization may occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers. Free radical initiators.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂). Methyl methacrylate. hydrocarbons.

SECTION 11: Toxicological information

Component Bonder

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada HPR

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Unknown acute toxicity (GHS_US)	11.62% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 11.62% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 11.62% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))
---------------------------------	--

Methyl methacrylate (80-62-6)	
LD50 oral rat	7900 - 9400 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
ATE (oral)	7900 mg/kg bodyweight
ATE (dust,mist)	29.8 mg/l/4h

2-(2-ethoxyethoxy)ethyl acrylate (7328-17-8)	
LD50 oral rat	1106 mg/kg
LD50 dermal rabbit	1000 - 2000 mg/kg male
ATE (oral)	1106 mg/kg bodyweight
ATE (dermal)	1000 mg/kg bodyweight
ATE (gases)	700 ppmv/4h
ATE (vapours)	3 mg/l/4h
ATE (dust,mist)	0.5 mg/l/4h

Methacrylate acid ester (52628-03-2)	
LD50 oral rat	> 5000 mg/kg

cumene (98-82-8)	
LD50 oral rat	4000 mg/kg
LD50 dermal rabbit	10600 mg/kg
LC50 inhalation rat (mg/l)	22.1 mg/l
LC50 inhalation rat (ppm)	4510 ppm/4h
ATE (oral)	4000 mg/kg bodyweight
ATE (dermal)	10600 mg/kg bodyweight
ATE (gases)	4510 ppmv/4h
ATE (vapours)	22.1 mg/l/4h
ATE (dust,mist)	22.1 mg/l/4h

Methacrylic acid (79-41-4)	
LD50 oral rat	1320 mg/kg
LD50 dermal rabbit	500 - 1000 mg/kg
LC50 inhalation rat (mg/l)	7.1 mg/l/4h
ATE (oral)	1320 mg/kg bodyweight
ATE (dermal)	500 mg/kg bodyweight
ATE (vapours)	7.1 mg/l/4h
ATE (dust,mist)	7.1 mg/l/4h

3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine (34562-31-7)	
LD50 oral rat	> 500 mg/kg
LD50 dermal rabbit	> 1000 mg/kg
ATE (oral)	500 mg/kg bodyweight
ATE (gases)	4500 ppmv/4h
ATE (vapours)	11 mg/l/4h
ATE (dust,mist)	1.5 mg/l/4h

2,6-di-tert-butyl-4-methylphenol (128-37-0)	
LD50 oral rat	890 mg/kg
LD50 dermal rat	> 2000 mg/kg
ATE (oral)	890 mg/kg bodyweight

Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Serious eye damage, category 1, implicit

Component Bonder

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada HPR

Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Suspected of causing cancer.

Methyl methacrylate (80-62-6)

IARC group 3 - Not classifiable

cumene (98-82-8)

IARC group 2B - Possibly carcinogenic to humans

2,6-di-tert-butyl-4-methylphenol (128-37-0)

IARC group 3 - Not classifiable

Reproductive toxicity : Suspected of damaging fertility or the unborn child.
STOT-single exposure : May cause respiratory irritation.

Methyl methacrylate (80-62-6)

STOT-single exposure May cause respiratory irritation.

cumene (98-82-8)

STOT-single exposure May cause respiratory irritation.

2,6-di-tert-butyl-4-methylphenol (128-37-0)

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : No data available
Likely routes of exposure : Skin and eye contact. Inhalation.
Symptoms/effects : Suspected of causing cancer. Suspected of damaging fertility or the unborn child.
Symptoms/effects after inhalation : May cause respiratory irritation.
Symptoms/effects after skin contact : May cause an allergic skin reaction. Causes severe skin burns and eye damage. Itching. Redness. Swelling. Blisters.
Symptoms/effects after eye contact : Causes serious eye damage. Can cause blindness.
Symptoms/effects after ingestion : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

SECTION 12: Ecological information

12.1. Toxicity

Methyl methacrylate (80-62-6)

LC50 fish 1 > 79 mg/l 96 h

EC50 crustacea 69 mg/l 48 h

2-(2-ethoxyethoxy)ethyl acrylate (7328-17-8)

LC50 fish 1 > 2.5 mg/l 96 h *Oncorhynchus mykiss*

cumene (98-82-8)

LC50 fish 1 4.8 mg/l

EC50 other aquatic organisms 1 2.14 mg/l

NOEC (acute) 1.9 mg/l

Methacrylic acid (79-41-4)

LC50 fish 1 85 mg/l 96 h *Oncorhynchus mykiss*

LC50 fish 2 833 mg/l 96 h *Scophthalmus maximus*

2,6-di-tert-butyl-4-methylphenol (128-37-0)

LC50 fish 1 0.199 mg/l 96 h

EC50 crustacea 0.48 mg/l 48 h

NOEC (acute) 0.15 mg/l 48 h

Component Bonder

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada HPR

12.2. Persistence and degradability

Component Bonder	
Persistence and degradability	Not established.
Methyl methacrylate (80-62-6)	
Persistence and degradability	Readily biodegradable.
BOD (% of ThOD)	94.3 % ThOD
Methyl methacrylate/Butadiene/Styrene Copolymer (25053-09-2)	
Persistence and degradability	Not readily biodegradable.
2-(2-ethoxyethoxy)ethyl acrylate (7328-17-8)	
Persistence and degradability	Readily biodegradable.
cumene (98-82-8)	
Persistence and degradability	May cause long-term adverse effects in the environment.
2,6-di-tert-butyl-4-methylphenol (128-37-0)	
Persistence and degradability	Product persists.

12.3. Bioaccumulative potential

Component Bonder	
Bioaccumulative potential	Not established.
Methyl methacrylate (80-62-6)	
Log Pow	1.38
Methyl methacrylate/Butadiene/Styrene Copolymer (25053-09-2)	
Bioaccumulative potential	Does not bioaccumulate significantly.
2-(2-ethoxyethoxy)ethyl acrylate (7328-17-8)	
Log Pow	1.105
cumene (98-82-8)	
Bioaccumulative potential	Not established.
2,6-di-tert-butyl-4-methylphenol (128-37-0)	
Bioconcentration factor (BCF REACH)	2500
Log Pow	4.17
Bioaccumulative potential	Expected to bioaccumulate.

12.4. Mobility in soil

2,6-di-tert-butyl-4-methylphenol (128-37-0)	
Mobility in soil	low
Log Koc	4.36

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Sewage disposal recommendations : Do not dispose of waste into sewer.
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Additional information : Handle empty containers with care because residual vapours are flammable. Hazardous waste due to potential risk of explosion.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Methacrylic acid, Methyl methacrylate), 8 (3), I

Component Bonder

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada HPR

UN-No.(DOT)	: UN2920
Proper Shipping Name (DOT)	: CORROSIVE LIQUID, FLAMMABLE, N.O.S. Methacrylic acid, Methyl methacrylate
Transport hazard class(es) (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Packing group (DOT)	: I - Great Danger
Subsidiary risk (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 8 - Corrosive 3 - Flammable liquid



DOT Packaging Non Bulk (49 CFR 173.xxx)	: 201
DOT Packaging Bulk (49 CFR 173.xxx)	: 243
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	: A6 - For combination packagings, if plastic inner packagings are used, they must be packed in tightly closed metal receptacles before packing in outer packagings. B10 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks, and DOT 57 portable tanks are not authorized. T14 - 6 mm Prohibited 178.275(g)(3). TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively. TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	: None
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 0.5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 2.5 L
DOT Vessel Stowage Location	: C - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 25 - Protected from sources of heat, 40 - Stow "clear of living quarters"
Emergency Response Guide (ERG) Number	: 132
Other information	: No supplementary information available.

Transportation of Dangerous Goods

Transport document description	: UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Methacrylic acid, Methyl methacrylate), 8 (3), I
UN-No. (TDG)	: UN 2920
Proper Shipping Name (Transportation of Dangerous Goods)	: CORROSIVE LIQUID, FLAMMABLE, N.O.S.
Primary Hazard Classes	: 8 - Class 8 - Corrosives
Packing group	: I - Great Danger
Subsidiary Classes	: 3

Transport by sea

Transport document description (IMDG)	: UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Methacrylic acid, Methyl methacrylate), 8 (3), I
UN-No. (IMDG)	: 2920
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, FLAMMABLE, N.O.S.
Class (IMDG)	: 8 - Corrosive substances

Component Bonder

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada HPR

Packing group (IMDG) : I - substances presenting high danger
Subsidiary risk (IMDG) : 3 - Flammable liquids

Air transport

Transport document description (IATA) : UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Methacrylic acid, Methyl methacrylate), 8 (3), I
UN-No. (IATA) : 2920
Proper Shipping Name (IATA) : CORROSIVE LIQUID, FLAMMABLE, N.O.S.
Class (IATA) : 8 - Corrosives
Packing group (IATA) : I - Great Danger
Subsidiary hazards (IATA) : 3 - Flammable liquids

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Methyl methacrylate	CAS-No. 80-62-6	60 - 70%
cumene	CAS-No. 98-82-8	0.01 - 0.2%

Methyl methacrylate (80-62-6)

EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a final TSCA section 4 test rule.
CERCLA RQ	1000 lb

cumene (98-82-8)

CERCLA RQ	5000 lb
-----------	---------

15.2. International regulations

CANADA

Methyl methacrylate (80-62-6)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Methyl methacrylate/Butadiene/Styrene Copolymer (25053-09-2)

Listed on the Canadian DSL (Domestic Substances List) inventory.

2-(2-ethoxyethoxy)ethyl acrylate (7328-17-8)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Methacrylate acid ester (52628-03-2)

Listed on the Canadian DSL (Domestic Substances List) inventory.

cumene (98-82-8)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Methacrylic acid (79-41-4)

Listed on the Canadian DSL (Domestic Substances List) inventory.

3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine (34562-31-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

2,6-di-tert-butyl-4-methylphenol (128-37-0)

Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

Methyl methacrylate (80-62-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Methyl methacrylate/Butadiene/Styrene Copolymer (25053-09-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Component Bonder

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada HPR

cumene (98-82-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

2,6-di-tert-butyl-4-methylphenol (128-37-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Methyl methacrylate (80-62-6)

Listed on the Chinese Catalog of Hazardous Chemicals.
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on KECI (Korean Existing Chemicals Inventory)

Methyl methacrylate/Butadiene/Styrene Copolymer (25053-09-2)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the AICS (Australian Inventory of Chemical Substances)

Methacrylate acid ester (52628-03-2)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the AICS (Australian Inventory of Chemical Substances)

cumene (98-82-8)

Listed on IARC (International Agency for Research on Cancer)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on Taiwan National Chemical Inventory
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Chinese Catalog of Hazardous Chemicals.
Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the TCSI (Taiwan Chemical Substance Inventory)

Methacrylic acid (79-41-4)

Listed on KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on Taiwan National Chemical Inventory
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Chinese Catalog of Hazardous Chemicals.

2,6-di-tert-butyl-4-methylphenol (128-37-0)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on Taiwan National Chemical Inventory
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

15.3. US State regulations



WARNING:

This product can expose you to cumene, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Component Bonder

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada HPR

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Toluene(108-88-3)		X				7000 µg/day (oral); 13000 µg/day (inhalation)
cumene(98-82-8)	X					

Component	State or local regulations
Methyl methacrylate(80-62-6)	U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances; U.S. - Pennsylvania - RTK (Right to Know) List
Methacrylic acid(79-41-4)	U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances; U.S. - Pennsylvania - RTK (Right to Know) List
cumene(98-82-8)	U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - Maine - Air Pollutants - Hazardous Air Pollutants; U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Washington - Permissible Exposure Limits - TWAs
2,6-di-tert-butyl-4-methylphenol(128-37-0)	U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>.
 Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. Manufacturer Information. United Nations Economic Commission for Europe: About the GHS. Accessed at http://www.unece.org/trans/danger/publi/ghs/ghs_welcome_e.html.

Other information : None.

Full text of H-statements:

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H320	Causes eye irritation

Component Bonder

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada HPR

H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	European List of Waste (LoW) code
	LD50: Lethal Dose for 50% of the test population
	TWA: Time Weighted Average
	STEL: Short Term Exposure Limits
	PBT: Persistent, Bioaccumulative, Toxic
	WEL: Workplace Exposure Limit
vPvB	Very Persistent and Very Bioaccumulative

NFPA health hazard

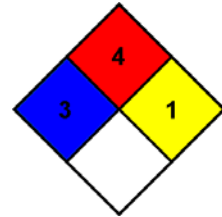
: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard

: 4 - Materials that rapidly or completely vaporize at atmospheric pressure and normal ambient temperature or that are readily dispersed in air and burn readily.

NFPA reactivity

: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.



Indication of changes :
Supplier information

SDS prepared by: The Redstone Group
6077 Frantz Rd
Suite 206
Dublin, Ohio USA 43017
614.923.7472
www.redstonegrp.com

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.