



METHYL METHACRYLATE (2-METHYL-D3, 98%) (+0.1% BHT)

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 31/01/2011

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Supersedes: 31/01/2011

Version: 2.0

DLM-4468

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	: Substance
Substance name	: METHYL METHACRYLATE (2-METHYL-D3, 98%) (+0.1% BHT)
EC index no	: 607-035-00-6 (Unlabeled)
EC no	: 201-297-1 (Unlabeled)
CAS No	: 80-62-6 (Unlabeled)
Product code	: DLM-4468
Formula	: H ₂ C=C(CD ₃)CO ₂ CH ₃

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

1.2.1. Relevant identified uses

Main use category	: Professional use
Industrial/Professional use spec	: For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.
50 Frontage Road
Andover, MA 01810
USA

USA: 1-800-322-1174 Int: 1-978-749-8000
cilsales@isotope.com www.isotope.com

Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours)
International: 1-703-741-5970 (24 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 H225
Skin Irrit. 2 H315
Skin Sens. 1 H317
STOT SE 3 H335

Full text of H-statements: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11
Xi; R37/38
R43
R52

Full text of R-phrases: see section 16

GHS-US classification

Flam. Liq. 2 H225
Skin Irrit. 2 H315
Skin Sens. 1 H317
STOT SE 3 H335
Aquatic Acute 3 H402

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapour
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H335 - May cause respiratory irritation

Precautionary statements (CLP) :

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, lighting, ventilating equipment
P261 - Avoid breathing dust, fume, gas, mist, spray, vapours
P264 - Wash hands, forearms and face 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

GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H225 - Highly flammable liquid and vapour
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H335 - May cause respiratory irritation
H402 - Harmful to aquatic life

Precautionary statements (GHS-US) :

P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, lighting, ventilating equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing dust, fume, gas, mist, spray, vapours
P264 - Wash hands, forearms and face 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
P273 - Avoid release to the environment
P280 - Wear protective clothing, protective gloves
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing
P312 - Call a POISON CENTER or doctor/physician if you feel unwell
P321 - Specific treatment (see Hazard pictograms (CLP) on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P362+P364 - Take off contaminated clothing and wash it before reuse
P370+P378 - In case of fire: Use Alcohol resistant foam, Carbon dioxide., Dry powder. for extinction
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 Comply with applicable regulations

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name : METHYL METHACRYLATE (2-METHYL-D3, 98%) (+0.1% BHT)
CAS No : 80-62-6 (Unlabeled)
EC no : 201-297-1 (Unlabeled)
EC index no : 607-035-00-6 (Unlabeled)

Name	Product identifier	%	Classification according to Directive 67/548/EEC
METHYL METHACRYLATE	(CAS No) 80-62-6 (Unlabeled) (EC no) 201-297-1 (Unlabeled) (EC index no) 607-035-00-6 (Unlabeled)	99.9	F; R11 Xi; R37/38 R43 R52
2,6-DI(TERT-BUTYL)-4-METHYL PHENOL UNLABELED	(CAS No) 128-37-0 (EC no) 204-881-4	0.1	N; R50/53 Xn; R20/21

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
METHYL METHACRYLATE	(CAS No) 80-62-6 (Unlabeled) (EC no) 201-297-1 (Unlabeled) (EC index no) 607-035-00-6 (Unlabeled)	99.9	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335
2,6-DI(TERT-BUTYL)-4-METHYL PHENOL UNLABELED	(CAS No) 128-37-0 (EC no) 204-881-4	0.1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of R- and H-statements: see section 16

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Name	Product identifier	%	GHS-US classification
METHYL METHACRYLATE	(CAS No) 80-62-6 (Unlabeled)	99.9	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 3, H402

Full text of H-statements: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
First-aid measures after inhalation : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
First-aid measures after skin contact : Wash with soap and plenty of water. Consult a physician.
First-aid measures after eye contact : Flush eyes with water as a precaution.
First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May be harmful if inhaled. May cause respiratory tract irritation.
Symptoms/injuries after skin contact : Causes skin irritation. May cause allergic skin reaction.
Symptoms/injuries after eye contact : May cause eye irritation.
Symptoms/injuries after ingestion : May be harmful if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Reactivity : Not available.

5.3. Advice for firefighters

Firefighting instructions : Wear self contained breathing apparatus for fire fighting if necessary.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
Other information : Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

For containment : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Flashback possible over considerable distance. Container explosion may occur under fire conditions. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage conditions : Store refrigerated (-5°C to 5°C). Protect from light.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

METHYL METHACRYLATE (2-METHYL-D3, 98%) (+0.1% BHT) (80-62-6 (Unlabeled))		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50 ppm Remarks: Dermal Sensitization. Upper Respiratory Tract irritation. Eye irritation. Pulmonary edema. Body weight effects. 2015 Adoption - Adopted values or notations enclosed are those for which changes are proposed in the NIC. See Notice of Intended Changes (NIC). Not classifiable as a human carcinogen. USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	100 ppm Remarks: Dermal Sensitization. Upper Respiratory Tract irritation. Eye irritation. Pulmonary edema. Body weight effects. 2015 Adoption - Adopted values or notations enclosed are those for which changes are proposed in the NIC. See Notice of Intended Changes (NIC). Not classifiable as a human carcinogen. USA. ACGIH Threshold Limit Values (TLV)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	410 mg/m ³ USA. NIOSH Recommended Exposure Limits.

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METHYL METHACRYLATE (2-METHYL-D3, 98%) (+0.1% BHT) (80-62-6 (Unlabeled))		
USA NIOSH	NIOSH REL (TWA) (ppm)	100 ppm USA. NIOSH Recommended Exposure Limits.
USA OSHA	OSHA PEL (TWA) (mg/m ³)	410 mg/m ³ Remark: The value in mg/m ³ is approximate. USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (STEL) (mg/m ³)	410 mg/m ³ California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (STEL) (ppm)	100 ppm California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	205 mg/m ³ California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (Ceiling) (ppm)	50 ppm California permissible exposure limits for chemical contaminants (Title 8, Article 107)

2,6-DI(TERT-BUTYL)-4-METHYL PHENOL UNLABELED (128-37-0)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	2.0000000000 mg/m ³ Upper Respiratory Tract irritation. Not classifiable as a human carcinogen
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³ USA. NIOSH Recommended Exposure Limits
USA OSHA	OSHA PEL (TWA) (mg/m ³)	10.0000000000 mg/m ³

METHYL METHACRYLATE (80-62-6 (Unlabeled))		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50 ppm Remarks: Dermal Sensitization. Upper Respiratory irritation. Eye irritation. Pulmonary edema. Body weight effects. 2015 Adoption - Adopted values or notations enclosed are those for which changes are proposed in the NIC. See Notice of Intended Changes (NIC)!. Not classifiable as a human carcinogen. USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	100 ppm Remarks: Dermal Sensitization. Upper Respiratory Tract irritation. Eye irritation. Pulmonary edema. Body weight effects. 2015 Adoption - Adopted values or notations enclosed are those for which changes are proposed in the NIC. See Notice of Intended Changes (NIC). Not classifiable as a human carcinogen. USA. ACGIH Threshold Limit Values (TLV)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	410 mg/m ³ USA. NIOSH Recommended Exposure Limits.
USA NIOSH	NIOSH REL (TWA) (ppm)	100 ppm USA. NIOSH Recommended Exposure Limits.
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USA OSHA	OSHA PEL (STEL) (ppm)	100 ppm California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	205 mg/m ³ California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (Ceiling) (ppm)	50 ppm California permissible exposure limits for chemical contaminants (Title 8, Article 107)

8.2. Exposure controls

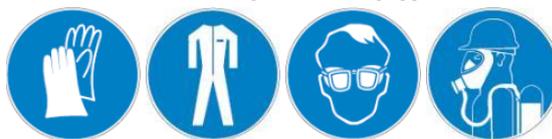
Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Materials for protective clothing : Wear suitable protective clothing and gloves.
Hand protection : Wear suitable protective clothing and gloves.
Eye protection : Wear safety glasses with side shields (or goggles) and a face shield.
Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection : When appropriate, use NIOSH/CEN approved respirator.
Environmental exposure controls : Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.
Molecular mass : 103.13 g/mol (Labeled)
Colour : Colourless.
Odour : Pungent.
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting point : -48 °C (-54 °F)
Freezing point : No data available
Boiling point : 100 °C (212 °F)
Flash point : 9 °C (48 °F) - closed cup
Auto-ignition temperature : 400 °C (752 °F) at 1,013.25 hPa (760.00 mmHg)
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : 37 hPa (28 mmHg) at 20 °C (68 °F)
Relative vapour density at 20 °C : 3.46 - (Air = 1.0)
Relative density : No data available
Density : 0.936 g/ml at 25 °C (77 °F)
Solubility : Water: 15.3 g/l at 20 °C (68 °F)
Log Pow : 1.38
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : 2.12 - 12.5 vol % (V)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Not available.

10.2. Chemical stability

Stable if stored under recommended conditions.

10.3. Possibility of hazardous reactions

Polymerizes with evolution of heat. Avoid contact with incompatible materials. Unless inhibited, product can polymerize, raising temperature and pressure, possibly rupturing container. Check inhibitor content often adding to bulk liquid if needed. Do not blanket or mix with oxygen-free gas as it renders inhibitor ineffective. Polymerises readily unless inhibited. Vapours may form explosive mixture with air.

10.4. Conditions to avoid

May polymerize on exposure to light. Heat, flames and sparks.

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10.5. Incompatible materials

Oxidizing agents. Peroxides. amines. Bases. Reducing agents. Halogens.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

METHYL METHACRYLATE (2-METHYL-D3, 98%) (+0.1% BHT) (80-62-6 (Unlabeled))	
LD50 oral rat	7900 mg/kg
LD50 dermal rabbit	> 5000 mg/kg (OECD Test Guideline 402)
LC50 inhalation rat (mg/l)	78000 mg/m ³ - 4 h
Repeated dose toxicity Rat - male - Oral - NOAEL	>= 124.1 mg/kg

2,6-DI(TERT-BUTYL)-4-METHYL PHENOL UNLABELED (128-37-0)	
LD50 oral rat	> 6000 mg/kg Rat - male and female (OECD Test Guideline 401)
LD50 oral	Rat - male and female (OECD Test Guideline 402)
LD50 dermal rat	> 2000 mg/kg

METHYL METHACRYLATE (80-62-6 (Unlabeled))	
LD50 oral rat	7900 mg/kg
LD50 dermal rabbit	> 5000 mg/kg (OECD Test Guideline 402)
LC50 inhalation rat (mg/l)	78000 mg/m ³ - 4 h
Repeated dose toxicity Rat - male - Oral - NOAEL	>= 124.1 mg/kg

Skin corrosion/irritation	: Skin - Rabbit Result: irritating to skin - 4 h
Serious eye damage/irritation	: Eyes - Rabbit Result: No eye irritation
Respiratory or skin sensitisation	: in vivo assay - Mouse. May cause allergic skin reaction. (OECD Test Guideline 429)
Germ cell mutagenicity	: Ames test. S. typhimurium result: negative. . OECD Test Guideline 478. Mouse - Male Result: Negative
Carcinogenicity	: Carcinogenicity - Rat - male and female - Inhalation. No significant adverse effects were reported. This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.
Reproductive toxicity	: Developmental Toxicity - Rat - Inhalation. No significant adverse effects were reported.
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Central nervous system depression. Drowsiness. Irritability. Dizziness. Ataxia. Narcosis. Liver - Irregularities - Based on Human Evidence. Stomach - Irregularities - Based on Human Evidence. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: Causes skin irritation. May cause allergic skin reaction.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

METHYL METHACRYLATE (2-METHYL-D3, 98%) (+0.1% BHT) (80-62-6 (Unlabeled))	
LC50 fish 1	283 mg/l static test LC50 - Lepomis macrochirus (Bluegill) - 96 h
EC50 Daphnia 1	69 mg/l flow-through test EC50 - Daphnia magna (Water flea) - 48 h
ErC50 (algae)	> 110 mg/l static test EC50 - Pseudokirchneriella subcapitata - 72 h (OECD Test Guideline 201)

2,6-DI(TERT-BUTYL)-4-METHYL PHENOL UNLABELED (128-37-0)	
LC50 fish 1	5.3 mg/l Oryzias latipes - 48 h
EC50 Daphnia 1	0.48 mg/l static test EC50 - Daphnia magna (Water flea) - 48 h (OECD Test Guideline 202)
EC50 other aquatic organisms 1	1.7 mg/l Toxicity to bacteria Growth inhibition EC50 - Protozoa - 24 h

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METHYL METHACRYLATE (80-62-6 (Unlabeled))	
LC50 fish 1	283 mg/l static test LC50 - Lepomis macrochirus (Bluegill) - 96 h
EC50 Daphnia 1	69 mg/l flow-through test EC50 - Daphnia magna (Water flea) - 48 h
ErC50 (algae)	> 110 mg/l static test EC50 - Pseudokirchneriella subcapitata - 72 h (OECD Test Guideline 201)

12.2. Persistence and degradability

METHYL METHACRYLATE (2-METHYL-D3, 98%) (+0.1% BHT) (80-62-6 (Unlabeled))	
Persistence and degradability	Aerobic - Exposure time 14 d.
Biodegradation	94 % - Readily biodegradable (OECD Test Guideline 301C)

2,6-DI(TERT-BUTYL)-4-METHYL PHENOL UNLABELED (128-37-0)	
Persistence and degradability	Not available.

METHYL METHACRYLATE (80-62-6 (Unlabeled))	
Persistence and degradability	Aerobic - Exposure time 14 d.
Biodegradation	94 % - Readily biodegradable (OECD Test Guideline 301C)

12.3. Bioaccumulative potential

METHYL METHACRYLATE (2-METHYL-D3, 98%) (+0.1% BHT) (80-62-6 (Unlabeled))	
Log Pow	1.38

2,6-DI(TERT-BUTYL)-4-METHYL PHENOL UNLABELED (128-37-0)	
Log Pow	5.1
Bioaccumulative potential	Not available.

METHYL METHACRYLATE (80-62-6 (Unlabeled))	
Log Pow	1.38

12.4. Mobility in soil

2,6-DI(TERT-BUTYL)-4-METHYL PHENOL UNLABELED (128-37-0)	
Ecology - soil	Not available.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects : An environmental hazard cannot be excluded in the event of an unprofessional handling or disposal. Harmful to aquatic life.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.

Waste disposal recommendations : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Ecology - waste materials : Dispose of as unused product.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No.(DOT) : 1247
DOT NA no. UN1247

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Methyl methacrylate monomer, stabilized
Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : II - Medium Danger

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DOT Special Provisions (49 CFR 172.102)	: IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / (1 + a (tr - tf))$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242

14.3. Additional information

Other information	: No supplementary information available.
Special transport precautions	: Not dangerous goods.

Overland transport

Packing group (ADR)	: II
Class (ADR)	: 3 - Flammable liquids
Hazard identification number (Kemler No.)	: 339
Classification code (ADR)	: F1
Danger labels (ADR)	: 3 - Flammable liquids



Orange plates	: An orange rectangular label with a black border. It is divided into two horizontal sections. The top section contains the number '339' and the bottom section contains the number '1247'.
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Tunnel restriction code	: D/E
Limited quantities (ADR)	: 11
EAC code	: 3YE
Excepted quantities (ADR)	: E2

Transport by sea

DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
MFAG-No	: 129P

Air transport

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
Civil Aeronautics Law	: Flammable liquids(Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)

14.4. Environmental hazards

Other information	: No supplementary information available.
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14.5. Special precautions for user

Special transport precautions	: Not dangerous goods.
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14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

METHYL METHACRYLATE (2-METHYL-D3, 98%) (+0.1% BHT) DLM-4468

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 15: Regulatory information

15.1. US Federal regulations

METHYL METHACRYLATE (2-METHYL-D3, 98%) (+0.1% BHT) (80-62-6 (Unlabeled))

Subject to reporting requirements of United States SARA Section 313

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
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SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard
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METHYL METHACRYLATE (80-62-6 (Unlabeled))

Subject to reporting requirements of United States SARA Section 313

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
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SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard
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15.2. International regulations

CANADA

METHYL METHACRYLATE (2-METHYL-D3, 98%) (+0.1% BHT) (80-62-6 (Unlabeled))

Listed on the Canadian DSL (Domestic Substances List)

METHYL METHACRYLATE (80-62-6 (Unlabeled))

Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

METHYL METHACRYLATE (2-METHYL-D3, 98%) (+0.1% BHT)(80-62-6 (Unlabeled))

State or local regulations	U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
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METHYL METHACRYLATE (80-62-6 (Unlabeled))

U.S. - Massachusetts - Right To Know List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - New Jersey - Right to Know Hazardous Substance List
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information

Other information : This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-statements:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour
H315	Causes skin irritation
H317	May cause an allergic skin reaction

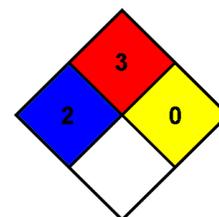
METHYL METHACRYLATE (2-METHYL-D3, 98%) (+0.1% BHT) DLM-4468

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R11	Highly flammable
R20/21	Harmful by inhalation and in contact with skin
R37/38	Irritating to respiratory system and skin
R43	May cause sensitisation by skin contact
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52	Harmful to aquatic organisms
F	Highly flammable
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

- NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
- NFPA fire hazard : 3 - Liquids and solids that can be ignited under almost all ambient conditions.
- NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

- Health : 2 Moderate Hazard - Temporary or minor injury may occur
- Flammability : 3 Serious Hazard
- Physical : 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

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