



# SAFETY DATA SHEET

Preparation Date: 04/27/2015 Product identifier Revision Date: 04/27/2015

Revision Number: G1

Product code: Product Name:

M1318 METHYL ACRYLATE

Other means of identification Synonyms:

2-Propenoic acid, methyl ester (9CI) Acrylate de methyle (French) Acrylic acid, methyl ester Acrylsaeuremethylester (German) Curithane 103 Methoxycarbonylethylene Methyl acrylate Methyl acrylate (ACGIH:OSHA) Methyl ester of acrylic acid Methyl propenate Methyl propenoate Methyl-2-propenoate Methyl-acrylat (German) Methylacrylaat (Dutch) Methylester kyseliny akrylove (Czech) Metilacrilato (Italian) 96-33-3 AT2800000 Not available

CAS #: RTECS # CI#:

Recommended use of the chemical and restrictions on use

Recommended use: Uses advised against	Production of acrylic and modacrylic fibers; resin; medical sciences. No information available
Supplier:	Spectrum Chemicals and Laboratory Products, Inc.
	14422 South San Pedro St.
	Gardena, CA 90248
	(310) 516-8000
Order Online At:	https://www.spectrumchemical.com
Emergency telephone number	Chemtrec 1-800-424-9300
Contact Person:	Martin LaBenz (West Coast)
Contact Person:	Ibad Tirmiz (East Coast)

# 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 4

Acute toxicity - Inhalation (Gases)	Category 3
Acute toxicity - Inhalation (Vapors)	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Flammable liquids	Category 2

### Label elements

# Danger

Hazard statements Toxic if swallowed Harmful in contact with skin Toxic if inhaled Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction May cause respiratory irritation May cause damage to organs through prolonged or repeated exposure Highly flammable liquid and vapor



Hazards not otherwise classified (HNOC) Not Applicable

### Other hazards

Toxic to aquatic life with long lasting effects Toxic to aquatic life

### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Contaminated work clothing should not be allowed out of the workplace Do not breathe dust/fume/gas/mist/vapors/spray Keep away from heat/sparks/open flames/hot surfaces. — No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/ .? /equipment Use only non-sparking tools Take precautionary measures against static discharge Wear protective gloves/protective clothing/eye protection/face protection

### **Precautionary Statements - Response**

Specific treatment (see .? on this label)

Specific measures (see .? on this label)

Specific treatment (see .? on this label) Get medical advice/attention if you feel unwell

In case of fire: Use CO2. drv chemical, or foam to extinguish.

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.

Call a POISON CENTER or doctor/physician if you feel unwell

If skin irritation or rash occurs: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

Call a POISON CENTER or doctor/physician. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth

### **Precautionary Statements - Storage**

Store locked up Store in a well-ventilated place. Keep container tightly closed

### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components	CAS-No.	Weight %	Trade Secret
Methyl Acrylate	96-33-3	100	*
96-33-3			

# **4. FIRST AID MEASURES**

First aid measures General Advice:	Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention. If skin irritation persists, call a physician.
Eye Contact:	Flush eye with water for 15 minutes. Get medical attention. If symptoms persist, call a physician.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.

Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately.		
Most important symptoms and effect Symptoms	st important symptoms and effects, both acute and delayedmptomsCauses serious eye irritation. Causes skin irritation. May cause allergic skin reaction. May cause irritation of respiratory tract. Causes skin and eye burns. Nose and throat irritation. Coughing and wheezing. Dyspnea (Shortness of breath and difficulty breathing).		
Indication of any immediate medica Notes to Physician:	l attention and special tre Treat symptomatically	atment needed	
Protection of first-aiders First-Aid Providers: Avoid exposure to contaminated clothing and equipment a		gloves and other necessary protective clothing. Dispose of	
	5. FIRE-FIGH	TING MEASURES	
Extinguishing Media Suitable Extinguishing Media:		Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.	
Unsuitable Extinguishing Media	:	Water.	
Specific hazards arising from	the chemical		
Hazardous Combustion Product	s:	Carbon oxides	
Specific hazards:		Flammable Combustible material Will be easily ignited by heat, sparks or flames May form explosive mixtures with air Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks) When heated to decompositon it emits acrid smoke and irritating fumes	
Special Protective Actions for	r Firefighters		
Specific Methods:		No information available.	
Special Protective Equipment fo	r Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear	

# 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal Precautions:	Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. All equipment used when handling the product must be grounded. Remove all sources of ignition. Pay attention to flashback. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.
Methods and material for contain	nment and cleaning up
Methods for containment	Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a suitable chemical waste container. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.
Methods for cleaning up	Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use only non-sparking tools. Clean contaminated surface thoroughly.

# 7. HANDLING AND STORAGE

### Precautions for safe handling

### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

### Safe Handling Advice:

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

### **Technical Measures/Storage Conditions:**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep refrigerated. Store at 2-8 deg. C. Keep away from heat and sources of ignition. Store away from incompatible materials.

### Incompatible Materials:

Acids. Alkalis. Metals. Oxidizing agents. Peroxides. nitrates.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Control parameters**

### National occupational exposure limits

### **United States**

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
1	10 ppm TWA	= 10 ppm TWA	= 2 ppm TWA	None
	35 mg/m³ TWA			

Canada

Components	Alberta	British Columbia	Ontario	Quebec
	= 2 ppm TWA	= 2 ppm TWA	2 ppm TWA	2 ppm TWAEV
Methyl Acrylate - 96-33-3	= 7 mg/m <sup>3</sup> TWA			7 mg/m <sup>3</sup> TWAEV

### Australia and Mexico

Components	Australia	Mexico
Methyl Acrylate	35 mg/m³ TWA	= 10 ppm TWA
96-33-3	10 ppm TWA	= 35 mg/m <sup>3</sup> TWA

### Appropriate engineering controls

Engineering measures to reduce exposure:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

# Individual protection measures, such as personal protective equipment

### **Personal Protective Equipment**

Eye protection:	Goggles.
Skin and body protection:	Chemical resistant apron. Impervious clothing. Gloves.
Respiratory protection:	Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures:	Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Odor: Acrid.

Formula: C6H6O2

Flash Point Tested according to: Closed cup

Autoignition Temperature (°C/°F): 421°C/ 789.8°F

Boiling point/range(°C/°F): 80.7°C/ 177.3°F

Specific gravity: 0.9535

**Evaporation rate:** No information available

**Odor threshold (ppm):** 0.049

**Miscibility:** No information available Appearance: No information available

Taste No information available

Flash point (°C): -2.8°C

Lower Explosion Limit (%): 2.8%

**pH:** No information available

**Decomposition temperature(°C/°F):** No information available

**Density (g/cm3):** No information available

Vapor density: 2.97

Partition coefficient (n-octanol/water): 0.80

Solubility: Soluble in Ethanol Soluble in Acetone Soluble in Chloroform Soluble in Benzene Soluble in water: 1.8 mL/ 100 g @ 20°C Color: Colorless.

Molecular/Formula weight: 86.09 g/mol

Flashpoint (°C/°F): -2.8°C/ 27°F

**Upper Explosion Limit (%):** 25%

**Melting point/range(°C/°F):** -75°C/ -103°F

Bulk density: No information available

Vapor pressure @ 20°C (kPa): 3.87

**VOC content (g/L):** No information available

Viscosity: No information available

# **10. STABILITY AND REACTIVITY**

#### Reactivity

Reactive with metals, acids, alkalis, nitrates, oxidizing agents and peroxides

Chemical stability Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	Polymerization process speeded up by heat, light, and peroxides Hazardous polymerization may occur above 20 deg C
Conditions to avoid:	Avoid excessive heat and light. Ignition sources. Incompatible materials.
Incompatible Materials:	Acids. Alkalis. Metals. Oxidizing agents. Peroxides. nitrates.
Hazardous decomposition products:	Carbon oxides.
Other Information	
Corrosivity:	No information available
Special Remarks on Corrosivity:	No information available

### Information on likely routes of exposure

Principal Routes of Exposure: Ingestion. Inhalation. Skin.

# Acute Toxicity

### **Component Information**

Methyl Acrylate - 96-33-3 LD50/oral/rat = 277 mg/kg Oral LD50 Rat LD50/oral/mouse = 826 mg/kg LD50/dermal/rat = 1243 mg/kg Dermal LD50 Rat LD50/dermal/rabbit = 1243 mg/kg Dermal LD50Rabbit LC50/inhalation/rat = 3.5 mg/L Inhalation LC50 Rat 4 h 1350 ppm Inhalation LC50 Rat 4 h LC50/inhalation/mouse = 5.1 mg/l 4 h Other LD50 or LC50information = No information available

**Product Information** 

LD50/oral/rat = VALUE- Acute Tox Oral = 277mg/kg

LD50/oral/mouse = Value - Acute Tox Oral = 826mg/kg

LD50/dermal/rabbit VALUE-Acute Tox Dermal = 1243mg/kg

LD50/dermal/rat VALUE -Acute Tox Dermal = 1243mg/kg

LC50/inhalation/rat VALUE-Vapor = 3.5 VALUE-Gas = No information availablemg/l VALUE-Dust/Mist = No information available

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LC50/Inhalation/mouse
VALUE-Vapor = 5.1 mg/l
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available
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### Symptoms

Aspiration hazard	No information available
Inhalation Ingestion	May cause respiratory tract irritation. Causes digestive (gastrointestinal) tract irritation.
Eye Contact:	Causes severe eye irritation and possible burns.
Skin Contact:	Causes skin irritation. Causes burns. May cause allergic skin reaction.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity	Prolonged or repeated ingestion may cause nausea, vomiting, diarrhea. Prolonged or repeated inhalation may cause difficulty breathing, shortness of breath. Prolonged or repeated inhalation may cause headache.
Sensitization:	May cause sensitization by skin contact
Mutagenic Effects:	No information available

Carcinogenic effects:

Not considered carcinogenic

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Methyl Acrylate	A4 Not Classifiable as a Human Carcinogen	Monograph 71 [1999] Monograph 39 [1986]		Not listed	Not listed	Not listed

Reproductive toxicity	No data is available		

Reproductive Effects:	No information available
Developmental Effects:	No information available
Teratogenic Effects:	No information available

Specific Target Organ Toxicity

STOT - single exposure	Respiratory Tract.
STOT - repeated exposure	No information available
Target Organs:	Mucous membrane. Kidneys. Liver.

# 12. ECOLOGICAL INFORMATION

# Ecotoxicity

Ecotoxicity effects:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<i>Methyl Acrylate - 96-33-3</i> Freshwater Algae Data:	0 - 46.78 mg/L EC50 Pseudokirchneriella subcapitata 96 h 15 mg/L EC50 Desmodesmus subspicatus 72 h
Freshwater Fish Species Data: Water Flea Data:	1.1 mg/L LC50 Cyprinodon variegatus 96 h flow-through 1 2.2 mg/L EC50 Daphnia magna 48 h
Persistence and degradability:	37% (BOD)
Bioaccumulative potential:	An estimated Biocentration Factor (BCF) value of 3.
Mobility:	It is expected to have high mobility in soil.

# 13. DISPOSAL CONSIDERATIONS

# **Disposal Methods**

# **13. DISPOSAL CONSIDERATIONS**

# Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

# Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Methyl Acrylate	None	None	None	None

# **14. TRANSPORT INFORMATION**

# DOT

UN-No:	UN1919
Proper Shipping Name:	Methyl acrylate, stabilized
Hazard Class:	3
Subsidiary Risk:	
Packing Group:	11
ERG No:	129P
Marine Pollutant	No data available
DOT RQ (lbs):	No information available
Symbol(s):	

# TDG (Canada)

UN-No:	UN1919
Proper Shipping Name:	Methyl acrylate, stabilized
Hazard Class:	3
Subsidiary Risk:	No information available
Packing Group:	11
Description:	No information available

### ADR

UN-No:	UN1919
Proper Shipping Name:	Methyl acrylate, stabilized
Hazard Class:	3
Packing Group:	II
Subsidiary Risk:	No information available
Classification Code:	No information available
Description:	No information available
CEFIC Tremcard No:	No information available

### IMO / IMDG

UN-No:	UN1919
Proper Shipping Name:	Methyl acrylate, stabilized
Hazard Class:	3
Subsidiary Risk:	No information available
Packing Group:	II
Description:	No information available
IMDG Page:	No information available
Marine Pollutant	No information available
EMS:	F-E
MFAG:	No information available
Maximum Quantity:	No information available

# **14. TRANSPORT INFORMATION**

UN-No:	UN1919
Proper Shipping Name:	Methyl acrylate, stabilized
Hazard Class:	3
Subsidiary Risk:	No information available
Packing Group:	II
Classification Code:	No information available
Description:	No information available

### ICAO

RID

UN-No:	UN1919
Proper Shipping Name:	Methyl acrylate, stabilized
Hazard Class:	3
Subsidiary Risk:	No information available
Packing Group:	II
Description:	No information available

### ΙΑΤΑ

UN-No:	UN1919
Proper Shipping Name:	Methyl acrylate, stabilized
Hazard Class:	3
Subsidiary Risk:	No information available
Packing Group:	II
ERG Code:	3HI
Description:	No information available

# **15. REGULATORY INFORMATION**

### **International Inventories**

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Methyl Acrylate	Present	Present KE- 29592	Present	Present (2)- 987	Present	Present	Present 202-500-6

### **U.S. Regulations**

#### Methyl Acrylate

Massachusetts RTK: Present

New Jersey RTK Hazardous Substance List: 1219

New Jersey (EHS) List: 1219 500 lb TPQ

New Jersey - Discharge Prevention - List of Hazardous Substances: Present

Pennsylvania RTK: Environmental hazard

Pennsylvania RTK - Environmental Hazard List Present Pennsylvania RTK - Special Hazardous Substances Present

RI RTK - Hazardous Substances List: Present

Minnesota - Hazardous Substance List: Present

Louisana Reportable Quantity List for Pollutants: Listed

California Directors List of Hazardous Substances: Present

**FDA - 21 CFR - Total Food Additives** 175.105 175.300 175.320 175.360 175.365 176.170 176.180 177.1010 177.1200 177.1340 177.1480 177.1630 177.1650 177.1990 177.2000 177.2420

#### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Methyl Acrylate	Not Listed	Not Listed	Not Listed	Not Listed

### CERCLA/SARA

	Substances and their	Section 302 Extremely Hazardous Substances and TPQs	Hazardous	Chemical Category	Section 313 - Reporting de minimis
Methyl Acrylate	None	None	None		1.0 % de minimis concentration

#### U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Methyl Acrylate	Not Applicable	Not Applicable

### Canada

### WHMIS hazard class:

B2 Flammable liquidD1A Very toxic materialsD2B Toxic materialsE Corrosive materialF Dangerously reactive material

#### Methyl Acrylate

B2 D1A D2B E F

### **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Methyl Acrylate	1 %

### Inventory

Components	Canada (DSL)	Canada (NDSL)
Methyl Acrylate	Present	Not Listed

Components		CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting
Methyl Acrylate	Not listed	Not listed

### **EU Classification**

### R-phrase(s)

R11 - Highly flammable.
R43 - May cause sensitization by skin contact.
R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.
R36/37/38 - Irritating to eyes, respiratory system and skin.

# S -phrase(s)

S 2 - Keep out of the reach of children.

- S 9 Keep container in a well-ventilated place.
- S25 Avoid contact with eyes.
- S33 Take precautionary measures against static discharges.
- S43 In case of fire use Dry Chemical powder, Dry Sand. Never use water

S36/37 - Wear suitable protective clothing and gloves.

Components	Classification	Concentration Limits:	Safety Phrases
Methyl Acrylate	F; R11 Xn; R20/21/22 Xi; R36/37/38 R43	No information	S2 S9 S25 S26 S33 S36/37 S43

### The product is classified in accordance with Annex VI to Directive 67/548/EEC

# Indication of danger:

F - Highly flammable. Xn - Harmful. Xi - Irritant.



**16. OTHER INFORMATION** 

# **16. OTHER INFORMATION**

04/27/2015

04/27/2015

Sonia Owen

Preparation Date: Revision Date: Prepared by:

**Disclaimer:** 

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**