

# MATERIAL SAFETY DATA SHEET

## Methyl Acrylate

### Section 1 - Chemical Product and Company Identification

<b>MSDS Name:</b>	Methyl acrylate, stabilized
<b>Synonyms:</b>	Methyl 2-propenoate
Company Identification: (INDIA)	Veritas House, 70 Mint Road, Fort, Mumbai - 400 001. INDIA
For information in the INDIA, call:	Tel: +91 - 22 - 2275 5555 / 6184 0000, Fax: +91 - 22 - 2275 5556 / 6184 0001

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#	Hazard Symbols:	Risk Phrases:
96-33-3	Methyl acrylate	99%	202-500-6		

Text for R-phrases: see Section 16

<b>Hazard Symbols:</b>	XN F
	
<b>Risk Phrases:</b>	11 20/21/22 36/37/38 43

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

*Highly flammable. Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.*

#### Potential Health Effects

<b>Eye:</b>	Causes eye irritation. Lachrymator (substance which increases the flow of tears).
<b>Skin:</b>	Causes skin irritation. Harmful if absorbed through the skin. May cause sensitization by skin contact.
<b>Ingestion:</b>	Harmful if swallowed. May cause irritation of the digestive tract.
<b>Inhalation:</b>	Harmful if inhaled. Causes respiratory tract irritation.
<b>Chronic:</b>	

### Section 4 - First Aid Measures

<b>Eyes:</b>	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
<b>Skin:</b>	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
<b>Ingestion:</b>	Get medical aid. Wash mouth out with water.
<b>Inhalation:</b>	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
<b>Notes to Physician:</b>	

## Section 5 - Fire Fighting Measures

<b>General Information:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Will burn if involved in a fire. Flammable liquid and vapor. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas.
<b>Extinguishing Media:</b>	Use water spray, dry chemical, carbon dioxide, or chemical foam.

## Section 6 - Accidental Release Measures

<b>General Information:</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Spills/Leaks:</b>	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Remove all sources of ignition. Use a spark-proof tool.

## Section 7 - Handling and Storage

<b>Handling:</b>	Use spark-proof tools and explosion proof equipment. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Take precautionary measures against static discharges.
<b>Storage:</b>	Keep away from heat, sparks, and flame. Store in a tightly closed container. Store in a dry area. Refrigerator/flammables.

## Section 8 - Exposure Controls, Personal Protection

<b>Engineering Controls:</b>	Use adequate ventilation to keep airborne concentrations low.
<b>Exposure Limits</b>	<b>CAS# 96-33-3:</b>
	United States OSHA: 10 ppm TWA; 35 mg/m <sup>3</sup> TWA
	Belgium - TWA: 10 ppm VLE; 36 mg/m <sup>3</sup> VLE
	France-VME: 10ppm VME; 35mg/m <sup>3</sup> VME France-VLE: 15 ppm VLE; 50 mg/m <sup>3</sup> VLE
	Germany: 5 ppm TWA; 18 mg/m <sup>3</sup> TWA Germany: skin notation
	Japan: 2 ppm OEL; 7 mg/m <sup>3</sup> OEL
	Malaysia: 2 ppm TWA; 7 mg/m <sup>3</sup> TWA
	Netherlands: 5 ppm MAC; 18 mg/m <sup>3</sup> MAC
	Russia: 5 mg/m <sup>3</sup> TWA (vapour)
	Spain: 2 ppm VLA-ED; 7.2 mg/m <sup>3</sup> VLA-ED
	<b>CAS# 150-76-5:</b>
	Belgium - TWA: 5 mg/m <sup>3</sup> VLE
	France - VME: 5 mg/m <sup>3</sup> VME
	Germany: 5 mg/m <sup>3</sup> TWA
	Malaysia: 5 mg/m <sup>3</sup> TWA
	Netherlands: 5 mg/m <sup>3</sup> MAC
	Spain: 5 mg/m <sup>3</sup> VLA-ED

### Personal Protective Equipment

<b>Eyes:</b>	Wear chemical splash goggles.
<b>Skin:</b>	Wear appropriate protective gloves to prevent skin exposure.
<b>Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.
<b>Respirators:</b>	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved

respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

<b>Physical State:</b>	Clear liquid
<b>Color:</b>	APHA: 10 max
<b>Odor:</b>	stench
<b>pH:</b>	Not available
<b>Vapor Pressure:</b>	68.2mmHg @20 deg C
<b>Viscosity:</b>	0.50 mPa.s @20 deg C
<b>Boiling Point:</b>	80 deg C @760mmHg ( 176.00°F)
<b>Freezing/Melting Point:</b>	-75 deg C ( -103.00°F)
<b>Autoignition Temperature:</b>	463 deg C ( 865.40 deg F)
<b>Flash Point:</b>	(-) 3 deg C ( 26.60 deg F)
<b>Explosion Limits: Lower:</b>	2.8 Vol %
<b>Explosion Limits: Upper:</b>	25 Vol %
<b>Decomposition Temperature:</b>	Not available
<b>Solubility in water:</b>	60 g/l (20°C)
<b>Specific Gravity/Density:</b>	0.956 g/cc
<b>Molecular Formula:</b>	C4H6O2
<b>Molecular Weight:</b>	86.09

## Section 10 - Stability and Reactivity

<b>Chemical Stability:</b>	Light sensitive.
<b>Conditions to Avoid:</b>	High temperatures, incompatible materials, light, ignition sources.
<b>Incompatibilities with Other Materials</b>	Ignition sources, acids, bases, peroxides.
<b>Hazardous Decomposition Products</b>	Carbon monoxide, carbon dioxide.
<b>Hazardous Polymerization</b>	May occur.

## Section 11 - Toxicological Information

<b>RTECS#:</b>	CAS# 96-33-3: AT2800000 CAS# 150-76-5: SL7700000
<b>LD50/LC50:</b>	RTECS: <b>CAS# 96-33-3:</b> Draize test, rabbit, eye: 100 mg Severe; Draize test, rabbit, eye: 100 mg/24H Moderate; Inhalation, mouse: LC50 = 12800 mg/m3; Inhalation, rat: LC50 = 1350 ppm/4H; Oral, mouse: LD50 = 827 mg/kg; Oral, rat: LD50 = 277 mg/kg; Skin, rabbit: LD50 = 1243 mg/kg; RTECS: <b>CAS# 150-76-5:</b> Draize test, rabbit, skin: 6 gm/12D (Intermittent) Mild; Draize test, rabbit, skin: 10%; Oral, rat: LD50 = 1600 mg/kg;
<b>Carcinogenicity:</b>	Methyl acrylate - IARC: Group 3 (not classifiable) 4-Methoxyphenol - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
<b>Other:</b>	See actual entry in RTECS for complete information.

## Section 12 - Ecological Information

<b>Ecotoxicity:</b>	Daphnia: EC50: 2.6 mg/l; 48H; . Bacteria: Pseudomonas putida: EC10: 260 mg/l; 16H;
<b>Other:</b>	Avoid entering into waters or underground water. log POW: 0.8

## Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations

## Section 14 - Transport Information

	<b>IATA</b>	<b>IMO</b>	<b>RID/ADR</b>
<b>Shipping Name:</b>	METHYL ACRYLATE, STABILIZED	METHYL ACRYLATE, STABILIZED	METHYL ACRYLATE, STABILIZED
<b>Hazard Class:</b>	3	3	3
<b>UN Number:</b>	1919	1919	1919
<b>Packing Group:</b>	II	II	II

## Section 15 - Regulatory Information

<b>European/International Regulations</b>
European Labeling in Accordance with EC Directives
<b>Hazard Symbols:</b> XN F
<b>Risk Phrases:</b>
➤ R 11 Highly flammable.
➤ R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
➤ R 36/37/38 Irritating to eyes, respiratory system and skin.
➤ R 43 May cause sensitization by skin contact.
<b>Safety Phrases:</b>
➤ S 9 Keep container in a well-ventilated place.
➤ S 25 Avoid contact with eyes.
➤ S 26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.
➤ S 33 Take precautionary measures against static discharges.
➤ S 36/37 Wear suitable protective clothing and gloves.
➤ S 43A In case of fire, use dry chemical (never use water).
<b>WGK (Water Danger/Protection)</b>
➤ CAS# 96-33-3: 2
➤ CAS# 150-76-5: 1
<b>Canada</b>
➤ CAS# 96-33-3 is listed on Canada's DSL List
➤ CAS# 150-76-5 is listed on Canada's DSL List
<b>US Federal</b>
➤ TSCA

- CAS# 96-33-3 is listed on the TSCA Inventory.
- CAS# 150-76-5 is listed on the TSCA Inventory.

## Section 16 - Other Information

### Text for R-phrases from Section 2

- R 22 Harmful if swallowed.
- R 36 Irritating to eyes.
- R 43 May cause sensitization by skin contact.

<b>MSDS Creation Date:</b>	July 22, 2015
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<b>Revision #0 Date</b>	
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