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SAFETY DATA SHEET

METHYL ACRYLATE

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

1.1 Product identifier:	
CAS Number:	96-33-3
EC number:	202-506-9
1.2 SYNONYMS:	• Methyl prop-2-enoate • Methacrylic acid methyl ester • Methyl 2-propenoate • Acrylic acid methyl ester • Methyl vinyl acetate • 2-Propenoic acid methyl ester

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Acute toxicity, inhalation (Category 3) Acute toxicity, oral (Category 4) Acute toxicity, dermal (Category 4) Skin corrosion/irritation (Category 2) Eye damage/irritation (Category 2A) Skin sensitisation (Category 1B) Specific target organ toxicity- single exposure (Category 3) Aquatic acute toxicity (Category 2) Aquatic Chronic toxicity (Category 3)
Hazard Pictograms:	
Signal Word:	Danger

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Hazard statements:	**H225:** Highly flammable liquid and vapour. **H319:** Causes serious eye irritation. **H315:** Causes skin irritation. **H331:** Toxic if inhaled. **H317:** May cause an allergic skin reaction. **H335:** May cause respiratory irritation. **H302 + H312:** Harmful if swallowed or in contact with skin. **H412:** Harmful to aquatic life with long lasting effects. **H401:** Toxic to aquatic life.
Precautionary Statements:	**P270:** Do not eat, drink, or smoke when using this product **P280:** Wear protective gloves, protective clothing, and eye/face protection. **P310:** Immediately call a POISON CENTER or doctor/physician. **P301+P312:** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. **P302+P352:** IF ON SKIN: Wash with plenty of soap and water. **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. **P370+P378:** In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction. **P273:** Avoid release to the environment. **P102:** Keep out of reach of children.

	P403: Store in a well-ventilated place. **P405:** Store locked up. **P501:** Dispose of contents/container in accordance with local/regional/ national/international regulations
2.3 Other hazards:	
Inhalation:	can cause respiratory irritation, dizziness, headache, and nausea, and may lead to more severe effects with prolonged exposure.
Ingestion:	can cause gastrointestinal irritation, nausea, vomiting, abdominal pain, and may lead to more serious health effects if swallowed in large quantities.
Skin Contact:	can cause irritation, redness, and may lead to allergic skin reactions or dermatitis with prolonged or repeated exposure.
Eye contact:	can cause severe irritation, redness, tearing, and may result in long-term damage to the eyes if not promptly rinsed.
Chronic Exposure:	may lead to respiratory issues, skin sensitization, and long-term irritation of the eyes and mucous membranes, as well as potential damage to the liver and nervous system with prolonged or repeated contact.
Aggravation of pre-existing conditions:	may aggravate pre-existing conditions such as respiratory disorders (e.g., asthma or bronchitis), skin conditions (e.g., eczema or dermatitis), and eye sensitivities, potentially leading to more severe irritation or allergic reactions.

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SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 96-33-3 METHYL ACRYLATE
Identification number(s):	EC number: 202-500-6

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Remove contaminated clothing. Wash with soap and water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water Immediately and drink 200-300 ml of water after ingestion. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	Acute symptoms include respiratory irritation, skin and eye irritation, and gastrointestinal discomfort, while delayed effects may include chronic respiratory issues, skin sensitization, and potential liver or nervous system damage with prolonged exposure.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

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SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray. Alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	Risk of violent self-polymerization if overheated in a container.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and 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. Avoid dust accumulation. Seek medical attention. Release of substance/product can cause fire or explosion. Shut off or stop source of leak. Shut off or stop released substance/ product under safe conditions.
6.2 Environmental precautions:	Do not enter this chemical into drains.
6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation. Heated containers should be cooled to prevent polymerization.
7.2 Conditions for safe storage, including any incompatibilities:	Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area.
Requirements to be met by storerooms and receptacles:	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.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended.
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:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Liquid
Colour:	Colourless
Odour:	Pungent
pH-value:	Not determined
Melting point/Melting range:	-76.5°C
Boiling point/Boiling range:	80.1°C
Flammability (solid, gaseous):	Flammable
Ignition temperature:	468°C
Decomposition temperature:	200°C
Self-igniting:	None
Flash point:	-2.8°C
Danger of explosion:	Yes

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Explosion limits: Lower:	2.3%
Explosion limits: Upper:	12.5%
Vapour pressure:	90 hPa at 20°C
Density at 20 °C:	0.95 g/cm^3
Relative density:	0.95
Vapour density:	2.96
Evaporation rate:	Not determined
Solubility in / Miscibility with- ·water at 20 °C:	Slightly soluble
Partition coefficient:(n-octanol/water)	0.739
Viscosity:	0,472 mPa.s at 25°C

SECTION 10: Stability and reactivity

10.1 Reactivity	Highly reactive and can undergo polymerization, especially when exposed to heat, light, or contaminants such as acids, alkalis, or peroxides. It is also reactive with strong oxidizing agents and reducing agents.
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	Hazardous polymerization may occur if methyl acrylate is exposed to high temperatures, light, or incompatible materials.
10.4 Conditions to avoid	High temperatures or direct heat Exposure to light. Presence of contaminants like acids, bases, or peroxides. Open flames, sparks, or ignition sources. Confined spaces.
10.5 Incompatible materials	Strong oxidizing agents, Strong acids and bases, Sources of heat or ignition, Metal salts and strong reducing agents.

10.6 Hazardous decomposition products	Acrylic acid,Carbon monoxide (CO), Carbon dioxide (CO_2), Acrolein, Various aldehydes and other organic compounds

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	**LD50** (Oral, Rat): 768 mg/kg **LD50** (Dermal, Rabbit): 1.250 mg/kg **LC50** (Inhalation Rat): 10382 mg/l (4hr)
Skin corrosion/Irritation:	Can cause serious irritation.
Serious eye damage/irritation:	Can cause severe eye damage
Respiratory damage/irritation:	Can cause respiratory irritation
Ingestion:	Can cause gastrointestinal irritation.
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity - single exposure:	Can cause severe respiratory irritation.
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	readily Biodegradable in aerobic environments.

SECTION 12: Ecological information

12.1 Toxicity **Aquatic toxicity:**	LC50(fish): 3.4 mg/l (96 hr) EC50(daphnia): 2.6 mg/l (48 hr) EC50(algae): 3.55 mg/l (72 hr)
12.2 Persistence and degradability:	Readily Biodegradable in aerobic environments.

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12.3 Bioaccumulative potential:	low bioaccumulative
12.4 Mobility in soil:	Moderate mobility
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Soapy water, alcohol, acetone, commercial degreasers.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	1919
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	METHYL ACRYLATE
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	3
14.4 Packing group · ADR, IMDG, IATA:	2
14.5 Environmental hazards:	Yes, harmful for aquatic life.
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is classified in listed substance as flammable liquids.
Named dangerous substances:	This substance is listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has been carried out under REACH regulation.

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SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.