

Safety data sheet as per Commission Regulation (EU) 2020/878

Product: Methyl isoprenol/4-Methyl-4-penten-2-ol



PRASOL

◆ SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name Methyl isoprenol/4-Methyl-4-penten-2-ol (4-MPOL)
Chemical Name 4-Methylpent-4-en-2-ol

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

Relevant identified uses Fragrance intermediate
Uses identified against Not for use other than those specified

1.3 Details of the supplier of the safety data sheet:

Manufacturer Prasol Chemicals Limited (Formerly known as Prasol Chemicals Private Limited)
Prasol House, Plot No.A-17/2/3,
T.T.C. Industrial Area, Khairne M.I.D.C.,
Navi Mumbai - 400 710.
Maharashtra, India.
Telephone +91-22-27782555/ 61952500
Telefax +91-22-61952577
e-mail address sales@prasolchem.com; inquiry@prasolchem.com

1.4 Emergency telephone number

Telephone +91-22- 27782555/ 61952500
Language English

◆ SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Flammable Liquid Category 3 H226 Flammable liquid and vapor

Information concerning particular hazards for human and environment: No further information

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 (CLP)

Hazard
pictograms



GHS02

Signal word

Warning

Hazard statements

H226

Flammable liquid and vapor

Precautionary statements

General

-

Prevention

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233

Keep container tightly closed

P240

Ground and bond container and receiving equipment

P241

Use explosion - proof [electrical/ventilating/lighting/...] equipment

P242

Use non-sparking tools

P243

Take action to prevent static discharge

P280

Use protective gloves and eye protection.

Response

P301 + P316

IF SWALLOWED: Get emergency help immediately.

P303+P361+P353

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

P331

Do NOT induce vomiting.

P370+P378

In case of fire: Use CO₂, dry powder, foam or water spray to extinguish.

Storage

P403+P235

Store in a well-ventilated place. Keep cool.

P405

Store locked up.

Disposal

P501

Dispose of contents and container in accordance with national regulations

2.3 Other hazards

Not a PBT, vPVB substance according to the criteria of Annex XIII to REACH regulation

Not having endocrine disruptive properties as per criteria of Delegated Regulations (EC) 2017/2100 or (EC) 2018/605

◆ SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Multi-constituent substance

Safety data sheet as per Commission Regulation (EU) 2020/878

Product: Methyl isoprenol/4-Methyl-4-penten-2-ol



	Molecular Formula	C ₆ H ₁₂ O			
	Molecular Weight	100.16			
Ingredient	CAS No.	EC No.	Classification	Concentration (%)	
4-Methyl-4-penten-2-ol	2004-67-3	217-907-4	Flam. Liq, 3, H226	85-100	

3.2 Mixtures not applicable

None of the ingredients present are classified as skin sensitisers 1A, respiratory sensitisers 1A, aspiration hazards and endocrine disruptors.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information

After inhalation

Take off all contaminated clothing immediately.

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention

After skin contact

Wash off with plenty of water immediately, seek medical advice if necessary.

After eye contact

Rinse with plenty of water immediately and seek medical advice.

After swallowing

Do not induce vomiting and seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

General: Unconsciousness Dizziness Headache.

4.3 Indication of any immediate medical attention and special treatment needed

In case of ingestion: Gastric and intestinal problems.

Treat symptomatically and supportively.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

SMALL FIRE: Dry chemical, CO₂, water spray or regular foam.

LARGE FIRE: Water spray, fog or regular foam.

Use of water spray when fighting fire may be inefficient.

CAUTION: For mixtures containing alcohol or polar solvent, alcohol-resistant foam may be more effective.

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Flammable. Explosive mixtures with air may even form at room temperature. Beware of re-ignition

Vapours form potentially explosive mixtures with air. Heavier than air, they proceed at floor level and may back-flash over great distances when ignited. Ignition by hot surfaces, sparks and open flames.

May form toxic carbon oxides if case of fire.

5.3 Advice for firefighters

Do not expose to high temperature. Danger of bursting and explosion.

Use fine water spray to cool endangered containers.

Move undamaged containers from immediate hazard area.

Do not allow fire water to penetrate into surface or ground water.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Remove persons not involved upwind.

Wear a self-contained breathing apparatus and chemical protective clothing. Solvent-resistant protective clothing recommended.

6.2 Environmental precautions

Plug leak if safely possible. Do not allow to enter drains, surface waters, basements or pits. When released into the environment, alert police and fire brigade.

6.3 Methods and material for containment and cleaning up

For containment: Contain released product, collect/pump into suitable containers. Plug the leak, cut off the supply

For cleaning up: Soak up with inert absorbent material eg. sand, earth, vermiculite or powdered lime stone and keep in suitable, closed containers for disposal. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4 Reference to other sections

Section 8 for information on personal protection equipment.

Section 13 for disposal information



SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling	Provide adequate ventilation, and local exhaust as needed. Provide room air exhaust at ground level. Concentrated vapours are heavier than air. Avoid the formation of aerosol. Do not breathe vapours. Use only explosion-protected equipment/instruments. Do not use air pressure..
7.2 Conditions for safe storage, including any incompatibilities	
Advice on protection against fire and explosion	Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge. Beware of re-ignition. Potentially explosive mixture may form within partially empty containers. Emergency cooling must be provided for in case of a fire in the vicinity. Do not weld.
Storage	Storage temperature: ambient Keep container dry. Keep container tightly closed in a cool, well-ventilated place. Protect from direct sunlight.
Packaging material	Recommended: Stainless steel, HDPE
Incompatibility	None identified
Advice on common storage	Observe prohibition against storing together!
Storage class	3 Flammable liquids
Storage stability	Stable under recommended storage conditions
7.3 Specific end use(s)	Solvent

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters	Occupational Exposure Limit- not defined; To be handled under strictly controlled conditions
8.2 Exposure controls	
Appropriate engineering controls	Explosion protection required. Provide good ventilation and/or an exhaust system in the work area.
Personal protective equipment	
Eye/ face protection	closed goggles, face shield
Skin protection	
Hand protection	Butyl-rubber 0.5 mm > 480 min
Body protection	Use solvent-resistant protective clothing. Flame-retardant antistatic protective clothing; safety shoes
Respiratory protection	Respiratory equipment with suitable filter or a self-contained respiratory apparatus.
Thermal hazards	Flammable liquid; do not expose to heat
Industrial hygiene	Do not inhale vapours / aerosols. Avoid contact with skin and eyes. Remove immediately all contaminated clothing. Use disposable clothing if appropriate. Smoking, eating and drinking should be prohibited in the application area.

◆ SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Physical state	Liquid
Colour	Colourless to pale yellow
Odour	Characteristic
Odour threshold	Not determined
pH	Not determined (does not liberate H ions when dissolved)
Melting point	No data available
Boiling point	122-129°C
Flash point	30°C (Closed cup) Flam Liq. Cat 3, H226
Evaporation rate	No data available
Flammability (solid, gas)	flammable
Flammability limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	0.846-0.857 at 25°C
Solubility in water	No data available
Partition coefficient	1.67 (log P octanol-water)
Ignition temperature	No data available
Decomposition temperature	No data available
Viscosity at 20 °C	No data available

Safety data sheet as per Commission Regulation (EU) 2020/878

Product: Methyl isoprenol/4-Methyl-4-penten-2-ol



Particle characteristics	Not applicable (substance is a liquid)
9.2 Other information	No further information
Explosive properties	No data available
Oxidizing properties	no oxidizing properties based on chemical structure

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Vapours form potentially explosive mixtures with air. Heavier than air, they proceed at floor level and may back-flash over great distances when ignited. May become electrostatically charged.
10.2 Chemical stability	At ambient temperature the product is stable over longer periods. Shelf life 24 months
10.3 Possibility of hazardous reactions	Methyl isoprenol may react vigorously with strong oxidizing agents. May react exothermically with reducing agents to release hydrogen gas. In the presence of various catalysts (such as acids) or initiators, may undergo exothermic addition polymerization reactions. May undergo autoxidation upon exposure to the air to form explosive peroxides.
10.4 Conditions to avoid	Highly flammable. Concentrated vapours are heavier than air. Forms explosive mixtures with air, also in empty, uncleaned containers.
10.5 Incompatible materials	Strong oxidizing agents, strong reducing agents, acids
10.6 Hazardous decomposition products	Thermal decomposition products- carbon oxides

SECTION 11: TOXICOLOGICAL INFORMATION

- ◆ 11.1 Information on toxicological effects
 - Acute toxicity no data available
 - Skin irritation no data available
 - Serious eye irritation no data available
 - Respiratory or skin sensitization no data available
 - Germ cell mutagenicity no data available
 - Carcinogenicity no data available
 - Reproductive toxicity no data available
 - STOT-single exposure no data available
 - STOT-repeated exposure no data available
 - Aspiration hazard no data available
- 11.2 Information on other hazards
 - Endocrine disrupting properties No endocrine disrupting properties
 - Other information No further information

◆ SECTION 12: ECOLOGICAL INFORMATION

- 12.1 Toxicity
 - Aquatic toxicity No data available
- 12.2 Persistence and degradability
 - Biodegradation No data available
- 12.3 Bioaccumulative potential No data available
- 12.4 Mobility in soil No data available
- 12.5 Results of PBT and vPvB assessment Not a PBT, vPvB substance according to the REACH regulation
- 12.6 Endocrine disrupting properties No endocrine disrupting properties
- 12.7 Other adverse effects No further information available

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods Observe all national, state and local environmental regulations.
- Product disposal Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
- Packaging disposal Clean container with water. Recover waste water for processing later. Destroy packaging by incineration at an approved waste disposal site.
- Sewage disposal Do not dispose in sewage.

SECTION 14: TRANSPORT INFORMATION

Safety data sheet as per Commission Regulation (EU) 2020/878

Product: Methyl isoprenol/4-Methyl-4-penten-2-ol



		ADR/RID	IMDG	ICAO/IATA
14.1	UN Number	1987	1987	1987
14.2	UN proper shipping name	Alcohols (Methyl isoprenol/ 4-Methyl-4-penten-2-ol), n.o.s		
14.3	Transport hazard class	3	3	3
14.4	Packaging group	III	III	III
14.5	Environmental hazards	No data available		
14.6	Special precautions for the user	Flammable liquid Cat. 3; Flash point 30°C (closed cup)		
	EmS Number	F-E, S-C		
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	See regulatory information for transport approval		

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
Major accident hazard	Seveso III P5a, P5b, P5c (Flammable)
International Chemical Inventory Status	
Australia (AICS)	listed
Japan (MITI)	Listed (MITI No. 2-2393)
Korea (KECL)	Listed (KE-24757)
15.2 Chemical safety assessment	Chemical Safety Assessment has not been carried out.

◆ SECTION 16: OTHER INFORMATION

Indication of changes: Sections in which changes have been made since the last version are marked with a diamond ◆ in the left hand margin.

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CLP	Classification for Labeling and Packaging
DSL	Domestic Substances List
EC	European Commission
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
IATA	International Air Transport Association
IBC	International Bulk Chemical
ICAO	International Civil Aviation Organization
IMDG	International Maritime Code for Dangerous Goods
KECL	Korea Existing Chemicals List
LD50	Lethal dose, 50 percent
MARPOL	International Convention for the Prevention of Pollution from Ships
MITI	Ministry of International Trade and Industry
PBT	Persistent, bioaccumulative and toxic substances
PICCS	Philippine Inventory of Chemicals and Chemical Substances
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT	Specific target organ toxicity
TSCA	Toxic Substances Control Act
UN	United Nations
vPVB	(very) Persistent, (very) Bioaccumulative

Key literature references and sources for data

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Disclaimer: Information herein is given in good faith. Prasol Chemicals Limited makes no representations or warranties as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving the same will make their own determination as to its suitability for their purpose prior to use. Prasol Chemicals Limited shall not be responsible for damages of any nature whatsoever resulting from the use or reliance upon this information. The data provided are based on samples tested and are not guaranteed for all samples or applications. Such data are intended as guides only. No representations or warranties for a particular purpose or any other nature are made with respect to this information or the product.

End of safety data sheet