

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

## Product: Methyl isobutyl carbinol



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

#### 1.1 Product identifier

|               |                                 |
|---------------|---------------------------------|
| Trade name    | Methyl isobutyl carbinol (MIBC) |
| Chemical Name | 4-methylpentan-2-ol             |
| CAS Number    | 108-11-2                        |
| EC Number     | 203-551-7                       |

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

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Relevant identified uses | Industrial use: Used in lubricants, in oil and gas field drilling and production operations, used in laboratories, in paints, in mining, functional fluids, polymer processing, coatings, for wafer cleaning in the electronics industry, as a solvent in coating products in semiconductor industry<br>Professional use: used in paints, lubricants, functional fluids, polymer processing, in laboratories<br>Consumer uses: Used in lubricants |
| 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<br>Prasol House, Plot No.A-17/2/3,<br>T.T.C. Industrial Area, Khairne M.I.D.C.,<br>Navi Mumbai - 400 710.<br>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        |
| Eye Irritation                 | Category 2 | H319 | Causes serious eye irritation     |
| Specific Target Organ Toxicity | Category 3 | H335 | May cause respiratory irritation. |

**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



GHS07

##### Signal word

Warning

##### Hazard statements

|      |                                  |
|------|----------------------------------|
| H226 | Flammable liquid and vapor       |
| H319 | Causes serious eye irritation    |
| H335 | May cause respiratory irritation |

##### Precautionary statements

##### General

P103

Read label before use.

##### 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

P261

Avoid breathing fume/gas/mist/ vapours/spray.

P264

Wash hands thoroughly after handling.

P271

Use only outdoors or in a well -ventilated area

P280

Use protective gloves and eye protection.

##### Response

P303+P361+P353

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

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|                 |                |                                                                                                                                 |
|-----------------|----------------|---------------------------------------------------------------------------------------------------------------------------------|
|                 | P304+P340      | skin with water.                                                                                                                |
|                 | P305+P351+P338 | IF INHALED: Remove person to fresh air and keep comfortable for breath                                                          |
|                 |                | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing |
|                 | P312           | Call a doctor if you feel unwell.                                                                                               |
|                 | P337+P331      | If eye irritation persists: Get medical advice.                                                                                 |
|                 | P370+P378      | In case of fire: Use CO <sub>2</sub> , dry powder, foam or water spray to extinguish.                                           |
| <b>Storage</b>  | 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.                                                                                                                |
| <b>Disposal</b> | 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

|                   |                                  |
|-------------------|----------------------------------|
| Name              | Methyl isobutyl carbinol         |
| CAS Number        | 108-11-2                         |
| EC Number         | 203-551-7                        |
| Molecular Formula | C <sub>6</sub> H <sub>14</sub> O |
| Molecular Weight  | 102.17                           |

| Ingredient                      | Classification                                          | Concentration (%) | SCL, M-factor, ATE |
|---------------------------------|---------------------------------------------------------|-------------------|--------------------|
| Methyl isobutyl carbinol (MIBC) | Flam. Liq, 3, Eye Irrit. 2, STOT SE 3; H226, H319, H335 | 100               | Not assigned       |

### 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

Take off all contaminated clothing immediately.

#### After inhalation

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

Can cause central nervous system depression, Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Blood disorders, Dermatitis, Blurred vision

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

Treat symptomatically and supportively.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing media

CO<sub>2</sub>, dry powder, foam or water spray

#### 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

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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**  
**For non-emergency personnel** For small spills and large spills: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Clear spills immediately.  
**For emergency responders** Protective equipment: Gloves, Face shield, Protective clothing.  
Emergency procedures: Mark the danger area. No naked flames. Wash contaminated clothes.  
Protective equipment: Equip cleanup crew with proper protection.  
Emergency procedures: Ventilate area.
- 6.2 Environmental precautions** Do not allow to enter sewers, surface or ground water.
- 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 Exposure controls and personal protection  
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** Keep container dry. Keep container tightly closed in a cool, well-ventilated place. Protect from direct sunlight.  
**Incompatible materials** Oxidising agents, strongly alkaline and strongly acidic materials  
**Packaging material** Recommended: Stainless steel, Iron, protected glass, HDPE  
**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 25 ppm, 100 mg/m<sup>3</sup> TWA
- DNEL/DMEL (Workers)**  
Acute - local effects, inhalation 208 mg/m<sup>3</sup>  
Long-term - systemic effects, dermal 11.8 mg/kg bodyweight/day  
Long-term - systemic effects, inhalation 83 mg/m<sup>3</sup>  
Long-term - local effects, inhalation 83 mg/m<sup>3</sup>
- DNEL/DMEL (General population)**  
Acute - local effects, inhalation 155.2 mg/m<sup>3</sup>  
Long-term - systemic effects, oral 4.2 mg/kg bodyweight/day  
Long-term - systemic effects, inhalation 14.7 mg/m<sup>3</sup>  
Long-term - systemic effects, dermal 4.2 mg/kg bodyweight/day  
Long-term - local effects, inhalation 14.7 mg/m<sup>3</sup>
- PNEC (Water)**  
PNEC aqua (freshwater) 0.6 mg/l  
PNEC aqua (marine water) 0.06 mg/l
- PNEC (Sediment)**

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|                              |               |
|------------------------------|---------------|
| PNEC sediment (freshwater)   | 2.94 mg/kg dw |
| PNEC sediment (marine water) | 0.3 mg/kg dw  |
| <b>PNEC (Soil)</b>           |               |
| PNEC soil                    | 0.24 mg/kg dw |
| <b>PNEC (STP)</b>            |               |
| PNEC sewage treatment plant  | 1 mg/l        |

### 8.2 Exposure controls

|                                         |                                                                                                                                                                                                                                      |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appropriate engineering controls</b> | Explosion protection required. Provide good ventilation and/or an exhaust system in the work area.                                                                                                                                   |
| <b>Personal protective equipment</b>    |                                                                                                                                                                                                                                      |
| <b>Eye/ face protection</b>             | closed goggles, face shield                                                                                                                                                                                                          |
| <b>Skin protection</b>                  |                                                                                                                                                                                                                                      |
| <b>Hand protection</b>                  | Butyl-rubber                      0.5 mm                      > 480 min                                                                                                                                                              |
| <b>Body protection</b>                  | Use solvent-resistant protective clothing.<br>Flame-retardant antistatic protective clothing; safety shoes                                                                                                                           |
| <b>Respiratory protection</b>           | Respiratory equipment with suitable filter or a self-contained respiratory apparatus.                                                                                                                                                |
| <b>Thermal hazards</b>                  | Flammable liquid; do not expose to heat                                                                                                                                                                                              |
| <b>Industrial hygiene</b>               | 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

|                                  |                                                          |
|----------------------------------|----------------------------------------------------------|
| <b>Physical state</b>            | liquid                                                   |
| <b>Color</b>                     | colorless                                                |
| <b>Odour</b>                     | mild alcohol-like                                        |
| <b>Odour threshold</b>           | 1.1ppm                                                   |
| <b>pH</b>                        | not determined (does not liberate H ions when dissolved) |
| <b>Melting point</b>             | -90°C                                                    |
| <b>Boiling point</b>             | 131-133°C                                                |
| <b>Flash point</b>               | 41°C (Closed cup) <b>Flamm. Cat 3, H226</b>              |
| <b>Evaporation rate</b>          | 0.28 (nBuAc=1)                                           |
| <b>Flammability (solid, gas)</b> | flammable                                                |
| <b>Flammability limits</b>       | <b>Lower</b> 1.0Vol %<br><b>Upper</b> 5.5Vol %           |
| <b>Vapour pressure</b>           | 0.42kPa at 20°C                                          |
| <b>Vapour density</b>            | 3.5 (air =1)                                             |
| <b>Relative density</b>          | 0.806-0.809 at 20°C                                      |
| <b>Solubility in water</b>       | 1.6% at 20°C                                             |
| <b>Partition coefficient</b>     | 1.68 log Kow (n-octanol/water) at 20°C                   |
| <b>Ignition temperature</b>      | 305°C                                                    |
| <b>Decomposition temperature</b> | no data available                                        |
| <b>Viscosity at 20°C</b>         | 5.2mPa.s                                                 |
| <b>Particle characteristics</b>  | Not applicable (substance is a liquid)                   |

### 9.2 Other information

|                             |                                                      |
|-----------------------------|------------------------------------------------------|
| <b>Explosive properties</b> | No explosive properties based on chemical structure. |
| <b>Oxidizing properties</b> | No oxidizing properties based on chemical structure. |
| <b>Heat of combustion</b>   | 36500kJ/kg                                           |
| <b>Heat of vaporization</b> | 413 kJ/kg                                            |

## SECTION 10: STABILITY AND REACTIVITY

|                                                |                                                                                                                                                                                                 |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>10.1 Reactivity</b>                         | 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. |
| <b>10.2 Chemical stability</b>                 | Under storage at normal ambient temperatures (-40°C to +40°C), the product is stable.                                                                                                           |
| <b>10.3 Possibility of hazardous reactions</b> | No known hazardous reactions if used as directed                                                                                                                                                |
| <b>10.4 Conditions to avoid</b>                | Flammable. Concentrated vapours are heavier than air. Forms explosive mixtures with air, also in empty, uncleaned containers.                                                                   |

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|      |                                  |                                                                                                                                              |
|------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 10.5 | Incompatible materials           | Acid catalysts (sulphuric acid, hydrochloric acid, oxalic acid), Iodine, Bases, Acetic anhydride, Hydrogen peroxide (concentrated solutions) |
| 10.6 | Hazardous decomposition products | Thermal decomposition products- carbon oxides, organic vapours                                                                               |

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

##### Acute toxicity

|      |            |         |                |                |
|------|------------|---------|----------------|----------------|
| LD50 | oral       | rat     | 2950 mg/kg bw  | not classified |
| LC0  | inhalation | 3h, rat | >16000 mg/l    | not classified |
| LD50 | Dermal     | rabbit  | >3870 ml/kg bw | not classified |

##### Skin irritation

can cause moderate skin irritation

##### Serious eye irritation

irritating **Category 2 H319** (rabbit)

##### Respiratory or skin sensitization

No sensitizing effects known

##### Germ cell mutagenicity

non mutagenic (Ames test)

##### Carcinogenicity

no indications for a carcinogenic potential

##### Reproductive toxicity

no adverse effect on reproduction (rat)

##### STOT-single exposure

Respiratory irritation >25% **Category 3, H335** Inhalation - May cause respiratory irritation. - Lungs

##### STOT-repeated exposure

NOAEC 3698ppm, 8 weeks for rats (inhalation)

##### 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

|                                             |       |     |          |                                        |
|---------------------------------------------|-------|-----|----------|----------------------------------------|
| Toxicity to fish                            | LC50  | 96h | 92.4mg/L | <i>Pimephales promelas</i>             |
| Toxicity to aquatic invertebrates           | EC50  | 48h | 337mg/L  | <i>Daphnia magna</i>                   |
| Toxicity to aquatic algae and cyanobacteria | ErC50 | 96h | 334 mg/L | <i>Pseudokirchneriella subcapitata</i> |
| Toxicity to microorganisms                  | EC50  | 3h  | >100mg   | sewage, domestic                       |

#### 12.2 Persistence and degradability

##### Biodegradation

readily biodegradable (85% in 28days)

#### 12.3 Bioaccumulative potential

Bioconcentration factor 0.5

very low potential for bioaccumulation

#### 12.4 Mobility in soil

log Koc <3; very low potential for geoaccumulation

#### 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

|      |                                                         | ADR/RID                                               | IMDG | ICAO/IATA |
|------|---------------------------------------------------------|-------------------------------------------------------|------|-----------|
| 14.1 | UN Number                                               | 2053                                                  | 2053 | 2053      |
| 14.2 | UN proper shipping name                                 | METHYL ISOBUTYL CARBINOL                              |      |           |
| 14.3 | Transport hazard class                                  | 3                                                     | 3    | 3         |
| 14.4 | Packaging group                                         | III                                                   | III  | III       |
| 14.5 | Environmental hazards                                   | not environmentally hazardous, not a marine pollutant |      |           |
| 14.6 | Special precautions for the user                        | Flammable liquid; Flash point 41°C (closed cup)       |      |           |
|      | EmS Number                                              | F-E, S-D                                              |      |           |
| 14.7 | Maritime transport in bulk according to IMO instruments | Ship type: 3; Pollution Category: Z                   |      |           |

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### SECTION 15: REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Major accident hazard                      Seveso III                      P5a,b,c (Flammable Liquids)

##### International Chemical Inventory Status

USA (TSCA)                      Listed (Tracking No. 24869)

Canada (DSL)                      listed

Australia (AICS)                      listed

Japan (MITI)                      listed

Korea (KECL)                      Listed (KE No. 24720)

Philippines (PICCS)                      listed

China                      listed

New Zealand                      listed

Taiwan                      listed

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment will be carried out at the time of REACH registration

### ◆ 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                                         |
| ATE      | Acute Toxicity Estimate                                                             |
| CAS      | Chemical Abstracts Service (division of the American Chemical Society)              |
| CLP      | Classification for Labeling and Packaging                                           |
| DMEL     | Derived minimal effect level                                                        |
| DNEL     | Derived No-Effect Level                                                             |
| DSL      | Domestic Substances List                                                            |
| EC       | European Commission                                                                 |
| EC50     | Half maximal effective concentration                                                |
| 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                                                       |
| KOC      | Soil adsorption coefficient                                                         |
| KOW      | Partition Coefficient octanol-water                                                 |
| LC50     | Lethal concentration, 50 percent                                                    |
| LD50     | Lethal dose, 50 percent                                                             |
| M-factor | Multiplication Factor                                                               |
| MITI     | Ministry of International Trade and Industry                                        |
| NOAEC    | No Observed Adverse Effect Concentration                                            |
| PBT      | Persistent, bioaccumulative and toxic substances                                    |
| PICCS    | Philippine Inventory of Chemicals and Chemical Substances                           |
| PNEC     | Predicted No-Effect Concentration                                                   |
| RID      | Regulations Concerning the International Transport of Dangerous Goods by Rail       |
| SCL      | Specific concentration limit                                                        |
| 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)

ECHA                      <https://echa.europa.eu/registration-dossier/-/registered-dossier/16189/1>

Chemid                      <https://chem.nlm.nih.gov/chemidplus/rn/108-11-2>

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