



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

**1.1 Product identifier**

**Trade name: Di-isobutyl carbinol/ 2,6-Dimethyl-4-heptanol**

**CAS No.:** 108-82-7 (refer Section 3 for details)

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

**Relevant identified uses:** Solvent for lacquers, printing inks; rubber additive

**Sector of use:** SU 3 industrial uses

**Environmental release category:** Manufacture (ERC1) and formulations (ERC2)

**Uses identified against:** Food additive, medicinal products

**1.3 Details of the supplier of the safety data sheet:**

**Manufacturer/Supplier:**

Prasol Chemicals Ltd.,  
Prasol House, Plot No.A-17/2/3,  
T.T.C. Indl. Area, Khairne M.I.D.C.,  
Navi Mumbai - 400 710  
Maharashtra, India.  
Tel: +91-22-27782555  
Fax: +91-22-27782430

**Further information obtainable from:**

Mr. Dhaval Parikh

e-mail:sales@prasolchem.com; inquiry@prasolchem.com

**1.4 Information in case of emergency:**

Product safety department Tel: +91-22- 27782555; Fax:+91-22- 27782430

Other Comments (e.g. language(s) of the phone service): English

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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



GHS07

Exclamation

Eye Irrit 2 H319 Causes serious eye irritation

STOT SE 3 H335 May cause respiratory irritation

Aquatic Chronic 3H412 Harmful to aquatic life with long lasting effects

**2.1.2 Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Irritant

R37 - Irritating to respiratory system

**Information concerning particular hazards for human and environment:** Not applicable

**2.2 Label elements**

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

The substance is classified and labeled according to the CLP regulation.

**Hazard pictograms**



GHS07

Exclamation

**Signal word** Warning

**Hazard-determining components of labeling:** Void

**Hazard statements**

H319 Causes serious eye irritation

H335 May cause respiratory irritation

**Safety data sheet as per COMMISSION REGULATION (EU) No 453/2010  
of 20 May 2010 amending Regulation (EC) No 1907/2006**

**Product: Di-isobutyl carbinol**



PRASOL

H412 Harmful to aquatic life with long lasting effects

**Precautionary statements**

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P261 Avoid breathing vapours  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**2.3 Other hazards**

**Results of PBT and vPvB assessment:** Not applicable

**SECTION 3: Composition/information on ingredients**

**Chemical characterization:** DIBC is a mixture of isomers in following concentration

CAS No.	Description	Molecular formula	Molecular weight	Concentration (%)
108-82-7	2,6-dimethyl-4-heptanol	C <sub>9</sub> H <sub>20</sub> O	144.26	>80
(Eines No: 203-619-6)				
51079-52-8	4,6-dimethyl-2-heptanol	C <sub>9</sub> H <sub>20</sub> O	144.26	<20%

**SECTION 4: First aid measures**

**4.1 General information:** If danger of loss of consciousness, place patient in recovery position and transport accordingly. Apply artificial respiration if necessary. Remove contaminated clothing. First aid personnel should pay attention to their own safety..

**After inhalation:**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**After skin contact:**

Wash off with soap and plenty of water. Consult a physician.

**After eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**After swallowing:** Rinse mouth with water. Consult a physician.

**Information for doctor:** If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. The decision of whether to induce vomiting or not should be made by a physician. Maintain adequate ventilation and oxygenation of the patient. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

**SECTION 5: Firefighting measures**

**5.1 Suitable extinguishing agents:**

Water, water spray, dry extinguishing media, alcohol-resistant foam, carbon dioxide

**5.2 Special hazards arising from the substance or mixture** May form Carbon oxides

**5.3 Protective equipment:** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (includes fire-fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance..

**Additional information:** Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of re-ignition has passed. Do not use direct water stream

**SECTION 6: Accidental release measures**

**6.1 Person-related safety precautions:**

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 vapors accumulating to form explosive

Revision: 15-01

Page 2 of 6

Issue Date: 21-07-2015

**Safety data sheet as per COMMISSION REGULATION (EU) No 453/2010  
of 20 May 2010 amending Regulation (EC) No 1907/2006**

**Product: Di-isobutyl carbinol**



concentrations. Vapors can accumulate in low areas.

**6.2 Measures for environmental protection:**

Material may float on water and any runoff may create an explosion or fire hazard if ignited. Prevent further leakage or spillage if safe to do so. Do not allow to enter sewers/ surface or ground water.

**6.3 Measures for cleaning/collecting:**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information

## **SECTION 7: Handling and storage**

**7.1 Precautions for safe handling:**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

**Information about fire - and explosion protection:** Keep ignition sources away. No smoking. Take measures to prevent the buildup of electrostatic charge.

**7.2 Conditions for safe storage, including any incompatibilities:**

Store in cool place. 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.

**Information about storage in one common storage facility:** Store away from incompatible materials.

**Further information about storage conditions:** Store away from moisture. Store in cool and dry place.

**7.3 Specific end use(s)** No further relevant information available

## **SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Ingredients with limit values that require monitoring at the workplace:** Not required.

**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

**Respiratory protection:**

Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required, use an approved air-purifying or positive-pressure supplied-air respirator depending on the potential airborne concentration. For emergency and other conditions where the exposure guideline may be exceeded, use an approved positive-pressure self-contained breathing apparatus or positive-pressure air line with auxiliary self-contained air supply. Use the following CE approved air-purifying respirator: Organic vapor cartridge with a particulate pre-filter, type AP2.

**Protection of hands:** Protective gloves

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 and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

**Body protection:**

Revision: 15-01

Issue Date: 21-07-2015

**Safety data sheet as per COMMISSION REGULATION (EU) No 453/2010  
of 20 May 2010 amending Regulation (EC) No 1907/2006**

**Product: Di-isobutyl carbinol**



PRASOL

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

<b>Appearance</b>	: Colorless liquid
<b>Odour</b>	: alcohol like
<b>Odour threshold</b>	: no data available
<b>pH</b>	: no data available
<b>Melting point/Melting range</b>	: <-65°C
<b>Boiling point/Boiling range</b>	: 178°C
<b>Flash point</b>	: 66°C (closed cup)
<b>Evaporation rate</b>	: 0.02 (nBuAc=1)
<b>Flammability (solid, gas)</b>	: not applicable
<b>Upper/lower flammability or explosive limits:</b>	
Lower: 0.8% (v/v)	
Upper 6.1% (v/v)	
<b>Vapour pressure at 20°C</b>	: 0.1mmHg
<b>Vapour density</b>	: 4.97 (air=1)
<b>Density at 20°C</b>	: 0.811g/cm <sup>3</sup>
<b>Solubility in / Miscibility with water</b>	: 0.06% at 20°C
<b>Surface tension at 20°C</b>	: 26dynes/cm
<b>Partition coefficient (n-octanol/water)</b>	: no data available
<b>Auto-ignition temperature</b>	: no data available
<b>Decomposition temperature</b>	: no data available
<b>Viscosity</b>	: 15.4cP (dynamic) at 20°C
<b>Explosive properties</b>	: not expected to be explosive (structural reasons)
<b>Oxidising properties</b>	: not expected to be oxidizing (structural reasons)
<b>9.2 Other information</b>	: no further information

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No dangerous reactions known.

**10.2 Chemical stability**

Under storage at normal ambient temperatures (minus 40° C to + 40° C), the product is stable.  
No hazardous reaction when handled and stored according to provisions.

**10.3 Possibility of hazardous reactions** No known hazardous reactions

**10.4 Conditions to avoid** Exposure to elevated temperatures can cause product to decompose.

**10.5 Incompatible materials:** Strong acid, strong oxidizing agents

**10.6 Hazardous decomposition products:** No dangerous decomposition products known

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity:**

LD50 Oral rat 3560 mg/Kg

LD50 Intraperitoneal rat 800 mg/kg

**Skin corrosion/irritation:** mildly irritating (rabbit), (prolonged skin contact can aggravate dermatitis)

**Serious eye damage/irritation:** mildly irritating (rabbit)

**Respiratory or skin sensitization:** non-sensitizing (guinea pig)

**Germ cell mutagenicity:** non genotoxic

**Carcinogenicity:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

**Reproductive toxicity:** no data available

**STOT-single exposure:** May cause respiratory irritation

**STOT-repeated exposure:** no data available

**Aspiration hazard:** no data available

Revision: 15-01

Issue Date: 21-07-2015

**Safety data sheet as per COMMISSION REGULATION (EU) No 453/2010  
of 20 May 2010 amending Regulation (EC) No 1907/2006**

**Product: Di-isobutyl carbinol**



PRASOL

**Additional information:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

### **SECTION 12: Ecological information**

#### **12.1 Toxicity**

**Aquatic toxicity:** No data available

#### **12.2 Persistence and degradability**

**Biodegradation** Readily biodegradable

**12.3 Bio accumulative potential** low potential for bioaccumulation.

**12.4 Mobility in soil** no data available

#### **12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects** No further relevant information available

### **SECTION 13: Disposal considerations**

#### **Waste treatment methods**

This product, when being disposed of in its unused and uncontaminated state should be treated as a hazardous waste according to EC Directive 91/689/EEC. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required. Do not dump into any sewers, on the ground, or into any body of water

**Product:** This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging:** Dispose of as unused product.

### **SECTION 14: Transport information**

**Land Transport (ADR/RID) Marine Transport (IMDG) Air Transport (ICAO/ IATA)**

**14.1 UN/ID Number:** -

**14.2 UN proper shipping name:** not dangerous goods in transport regulations

**14.3 Transport hazard class:** -

**14.4 Packaging group:** -

**14.5 Environmental hazards:** not a marine pollutant

**14.6 Special precautions for the user:** no data available

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** no data available

### **SECTION 15: Regulatory information**

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

This safety datasheet complies with the requirements of COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006

**Hazard pictograms** Please refer section 2

**Signal word** Warning

**Labeling according to EU guidelines:**

**Code letter and hazard designation of product:** Please refer section 2

**Risk phrases:** Please refer section 2

#### **15.2 Chemical safety assessment**

A Chemical Safety Assessment has not been carried out and will be applicable at the time of REACH Registration.

**Substances of very high concern (SVHC) according to REACH, Article 57:** The substance is not listed as SVHC.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Safety data sheet as per COMMISSION REGULATION (EU) No 453/2010  
of 20 May 2010 amending Regulation (EC) No 1907/2006**

**Product: Di-isobutyl carbinol**



**Department issuing MSDS:**

Product safety department.

**Contact:**

Tel: +91-22- 27782555

Fax: +91-22- 27782430

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EC50: Half Maximal Effective concentration

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

IATA: International Air Transport Association

IBC Code: International Bulk Chemical Code

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Marpol 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

TTC: Toxic threshold concentration

**Sources**

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

•ECHA CLP: <http://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/cl-inventory/view-notification-details/112250/43519164>

•HSDB: <http://toxnet.nlm.nih.gov/cgi-bin/sis/search2/r?dbs+hsdb:@term+@rn+@rel+108-82-7>

•chemidplus: <http://chem.sis.nlm.nih.gov/chemidplus/rn/108-82-7>

•Sigma-Aldrich MSDS:

<http://www.sigmaaldrich.com/MSDS/MSDS/DisplayMSDSPage.do?country=IN&language=en&productNumber=541486&brand=ALDRICH&PageToGoToURL=http%3A%2F%2Fwww.sigmaaldrich.com%2Fcatalog%2Fproduct%2Faldrich%2F541486%3Flang%3Den>

Dow:

[http://msdssearch.dow.com/PublishedLiteratureDOWCOM/dh\\_0925/0901b80380925dbe.pdf?filepath=productsafety/pdfs/noreg/233-00594.pdf&fromPage=GetDoc](http://msdssearch.dow.com/PublishedLiteratureDOWCOM/dh_0925/0901b80380925dbe.pdf?filepath=productsafety/pdfs/noreg/233-00594.pdf&fromPage=GetDoc)

Acros MSDS: [http://www.chemblink.com/MSDS/MSDSFiles/108-82-7\\_Fisher%20Scientific.pdf](http://www.chemblink.com/MSDS/MSDSFiles/108-82-7_Fisher%20Scientific.pdf)

**Data compared to the previous version altered.**

•Section 1: Chemical Product and Company Identification

•Section 3: Composition and Information on Ingredients

•Section 4: First Aid Measures

•Section 5: Fire and Explosion Data

•Section 6: Accidental Release Measures

•Section 7: Handling and Storage

•Section 8: Exposure Controls/Personal Protection

•Section 9: Physical and Chemical Properties

•Section 10: Stability and Reactivity Data

•Section 11: Toxicological Information

•Section 12: Ecological Information

•Section 13: Disposal Considerations