

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

Product: n-Propyl acetate



PRASOL

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

1.1 Product identifier

Trade name: n-Propyl acetate

CAS No.: 109-60-4

EC No.: 203-686-1

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

Relevant identified uses: Laboratory chemicals (PC21), Manufacture of coatings (PC9a) cosmetics and personal care products (PC39)

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)



GHS02



GHS07

Flam. Liquid 2 H225 Highly flammable liquid and vapour

Eye Irrit. 2 H319 Causes serious eye irritation

STOT Single Exp. 3 H336: May cause drowsiness or dizziness

EUH066: Repeated exposure may cause skin dryness or cracking

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



Xi; Irritant

R11: Highly flammable

R36 Irritating to eyes.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapors may cause drowsiness and dizziness

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



GHS02



GHS07

Signal word Danger

Revision: 14-01

Issue Date: 04.12.2014

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Hazard-determining components of labeling: Void

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation

H336: May cause drowsiness or dizziness

EUH066: Repeated exposure may cause skin dryness or cracking

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking

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:

CAS No.	Description
109-60-4	n-Propyl acetate

Identification number(s)

EC Number: 203-686-1

Index number: 607-024-00-6

Additional information:

Molecular Formula: C₅H₁₀O₂

Molecular Weight: 102.13 g/mol

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: Treat according to symptoms (decontamination, vital functions), no known specific antidote

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 Advice for fire fighters: Wear self-contained breathing apparatus for firefighting if necessary.

Additional information Use water spray to cool unopened containers. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems

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 concentrations. Vapors can accumulate in low areas.

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6.2 Measures for environmental protection:

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:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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:

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

Appearance	: Colorless liquid
Odour	: fruity
Odour threshold	: no data available
pH	: no data available
Melting point/Melting range	: -93°C (at 1011.7 hPa)
Boiling point/Boiling range	: 102°C
Flash point	: 11.8°C (closed cup)
Evaporation rate	: 2.3 (butyl acetate=1)
Flammability	: flammable
Upper/lower flammability or explosive limits:	
Lower: 1.7vol%	
Upper: 8 vol%	
Danger of explosion	: No data available.
Vapour pressure at 25°C	: 35.9mmHg
Vapour density	: 3.5 (Air = 1)
Relative density at 20°C	: 0.89
Solubility in / Miscibility with water	: 18.9 g/L
Surface tension at 20°C	: 0.0243mN/m
Partition coefficient (n-octanol/water) at 23°C: 1.23 log POW	
Auto-ignition temperature	: 445°C at 978 hPa
Decomposition temperature	: no data available
Viscosity	: 0.58 mPa s (dynamic) at 20°C
Explosive properties	: no data available
Oxidising properties	: no data available

9.2 Other information

Critical temperature: 549.69 K; critical pressure: 3.37 MPa

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 Heat, flames and sparks.

10.5 Incompatible materials: 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	9.8 mg/Kg
LC50	Inhalation	rat	4h; 32 mg/L
LD50	Dermal	rabbit	> 17800 mg/kg

Skin corrosion/irritation: not irritating (rabbit)

Serious eye damage/irritation: irritating category 2A (rabbit)

Respiratory or skin sensitization: non-sensitizing

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 drowsiness or dizziness

STOT-repeated exposure: no data available

Aspiration hazard: no data available

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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:

LC50	96h	60mg/l (Pimephales promelas)
EC50	72h	672 mg/l (Pseudokirchnerella subcapitata)
TTC	16h	170 mg/L mg/L (Pseudomonas putida)

12.2 Persistence and degradability

Biodegradation

Readily biodegradable 80% in 10d

12.3 Bio accumulative potential No further relevant information available.

12.4 Mobility in soil

Calculated Koc of 11.31

(Henry's law constant of 22.08994 Pa*m³/mole at 25°C; half-life for volatilization from a model river is 6.5 h)

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

13.1 Waste treatment methods

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: 1276

14.2 UN proper shipping name: n-PROPYL ACETATE

14.3 Transport hazard class: 3 Flammable liquids

14.4 Packaging group: II

14.5 Environmental hazards: none, not a marine pollutant

14.6 Special precautions for the user: flammable

EMS Number : F-E,S-D

Tunnel Code : D/E

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 Danger

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.

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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.

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: http://apps.echa.europa.eu/registered/data/dossiers/DISS-9c7d33f6-44b3-11bf-e044-00144f67d249/DISS-9c7d33f6-44b3-11bf-e044-00144f67d249_DISS-9c7d33f6-44b3-11bf-e044-00144f67d249.html

•HSDB <http://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?/.temp/~eHcPgP:1>

•chemidpluslite: <http://chem.sis.nlm.nih.gov/chemidplus/rn/109-60-4>

•Sigma-Aldrich MSDS:

<http://www.sigmaaldrich.com/MSDS/MSDS/DisplayMSDSPage.do?country=IN&language=en&productNumber=537438&brand=SIAL&PageToGoToURL=http%3A%2F%2Fwww.sigmaaldrich.com%2Fcatalog%2Fproduct%2F537438%3Flanguage%3Den>

Data compared to the previous version altered.

New MSDS