

Safety data sheet as per Commission Regulation (EU) 2015/830

Product: Dibasic ester



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

1.1 Product identifier

| | |
|---------------|----------------------------------|
| Trade name | Dibasic ester (DBE) |
| Chemical Name | multi-constituent |
| CAS Number | not applicable (refer Section 3) |
| EC Number | not applicable (refer Section 3) |

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

Relevant identified uses Intermediate for the synthesis of organic chemicals, Paint additive, Solvent

Uses identified against Not for use other than those specified

1.3 Details of the supplier of the safety data sheet:

| | |
|----------------|---|
| Manufacturer | Prasol Chemicals Pvt. 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. |
| Telephone | +91-22-27782555 |
| Telefax | +91-22-27782430 |
| e-mail address | sales@prasolchem.com; inquiry@prasolchem.com |

1.4 Emergency telephone number

| | |
|-----------|------------------|
| Telephone | +91-22- 27782555 |
| Language | English |

◆ SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP) not classified

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 | none |
| Signal word | none |
| Hazard statements | none |

Precautionary statements

General -

Prevention -

Response P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Storage -

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 REACH regulation

◆ SECTION 3: Composition/information on ingredients

3.2 Mixtures

| Ingredient | Molecular formula | CAS No. | EC No. | Concentration (%) |
|--------------------|---|-----------|-----------|-------------------|
| Dimethyl glutarate | C ₇ H ₁₂ O ₄ | 1119-40-0 | 214-277-2 | 55-65 |
| Dimethyl adipate | C ₈ H ₁₄ O ₄ | 627-93-0 | 211-020-6 | 10-25 |
| Dimethyl succinate | C ₆ H ₁₀ O ₄ | 106-65-0 | 203-419-9 | 15-25 |

◆ 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, Headache, dizziness on excess inhalation



both acute and delayed
 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 CO₂, dry powder, foam or water spray
Unsuitable extinguishing media water jet
 5.2 **Special hazards arising from the substance or mixture** Combustible
 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.

◆ **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** In case of spills of large quantities: Dam spills and pump to remove.
 Explosion protection required. Absorb leftover product with non-flammable liquid-binding material (e.g. earth, sand, vermiculite or ground sand stone) and place in closed containers for disposal.
 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. 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 products: Strong oxidizing agents.
 Packaging material: Plastic container. - Steel drums with an inner lining.
 Recommended: Plastic materials (polyethylene, polypropylene). Coated steels.
Advice on common storage Observe prohibition against storing together!
Storage class 4 Combustible 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** no exposure limits have been established
 8.2 **Exposure controls**
Appropriate engineering controls 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.
 safety shoes



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| Respiratory protection | Respiratory equipment with suitable filter or a self-contained respiratory apparatus. |
| Thermal hazards | Combustible 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

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|--|--|
| ◆ 9.1 Information on basic physical and chemical properties | |
| Appearance | clear colourless liquid |
| Odour | fruity ester like |
| Odour threshold | 0.1ppm |
| pH | not determined (does not liberate H ions when dissolved) |
| Melting point | -20°C |
| Boiling point | 195-230°C |
| Flash point | 100°C (Closed cup) |
| Evaporation rate | <0.1 (nBuAc=1) |
| Flammability (solid, gas) | combustible |
| Flammability limits | Lower 0.9Vol % Upper 8.0Vol % |
| Vapour pressure | 0.2 hPa at 20°C |
| Vapour density | not determined |
| Relative density | 1.076-1.096 at 20°C |
| Solubility in water | 5.3% at 20°C |
| Partition coefficient | -0.6-1.4log Kow (n-octanol/water) at 20°C |
| Ignition temperature | 370°C |
| Decomposition temperature | no data available |
| Viscosity at 20 °C | 2.5 mPa.s |
| Explosive properties | No explosive properties |
| Oxidizing properties | no oxidizing properties |
| 9.2 Other information | |
| Heat of combustion | 700-1000kcal/mol |
| Heat of vaporization | - |

SECTION 10: Stability and reactivity

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|--|---|
| ◆ 10.1 Reactivity | No dangerous reactions known |
| 10.2 Chemical stability | Under storage at normal ambient temperatures (-40°C to +40°C), the product is stable. |
| 10.3 Possibility of hazardous reactions | No known hazardous reactions if used as directed |
| 10.4 Conditions to avoid | Combustible. Concentrated vapours are heavier than air. Forms explosive mixtures with air, also in empty, uncleaned containers. |
| 10.5 Incompatible materials | strong oxidizing agents |
| 10.6 Hazardous decomposition products | Thermal decomposition products- toxic carbon oxides |

SECTION 11: Toxicological information

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|--|---|
| ◆ 11.1 Information on toxicological effects | |
| Acute toxicity | |
| LD50 oral rat | >5000 mg/kg bw not classified |
| LC0 inhalation 3h, rat | >11 mg/l not classified |
| LD50 Dermal rabbit | >2000 mg/kg bw not classified |
| Skin irritation | not irritating (rabbit) |
| Serious eye irritation | not irritating - 24 h (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) |

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|------------------------|-------------------|
| STOT-single exposure | not hazardous |
| STOT-repeated exposure | no further data |
| Aspiration hazard | no data available |

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

| | | | | |
|---|------|-----|----------------|--|
| Toxicity to fish | LC50 | 96h | >18mg/L | <i>Pimephales promelas</i> |
| Toxicity to aquatic invertebrates | EC50 | 48h | >112mg/L | <i>Daphnia magna</i> |
| Toxicity to aquatic algae and cyanobacteria | EC50 | 72h | >85mg/L | <i>Pseudokirchneriella subcapitata</i> |
| Toxicity to microorganisms | | | not determined | |

12.2 Persistence and degradability

Biodegradation

readily biodegradable (97% in 10days)

12.3 Bioaccumulative potential

Bioconcentration factor 0.5

very low potential for bioaccumulation

12.4 Mobility in soil

log Koc 0.6-1.4; 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 Other adverse effects

No further information available

SECTION 13: Disposal considerations

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|------------------------------|---|
| 13.1 Waste treatment methods | Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Do not dispose in sewage. |
|------------------------------|---|

SECTION 14: Transport information

| | ADR/RID | IMDG | ICAO/IATA |
|--|---|------|-----------|
| 14.1 UN Number | - | - | - |
| 14.2 UN proper shipping name | Not hazardous for transport | | |
| 14.3 Transport hazard class | - | - | - |
| 14.4 Packaging group | - | - | - |
| 14.5 Environmental hazards | not environmentally hazardous, not a marine pollutant | | |
| 14.6 Special precautions for the user | Combustible liquid; Flash point 100°C (closed cup) | | |
| 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 not applicable

International Chemical Inventory Status

| | |
|---------------------|--------|
| USA (TSCA) | listed |
| Canada (DSL) | listed |
| Australia (AICS) | listed |
| Japan (MITI) | listed |
| Korea (KECL) | listed |
| 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

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.

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Further information:

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

Abbreviations and acronyms in English language:

| | |
|--------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| 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 |
| 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 |
| MARPOL | International Convention for the Prevention of Pollution from Ships |
| MITI | Ministry of International Trade and Industry |
| NOAEC | No Observed Adverse Effect Concentration |
| NOAEL | No Observed Adverse Effect Level |
| 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 |

Sources

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

ECHA <https://echa.europa.eu/registration-dossier/-/registered-dossier/14563/1>
