

Safety Data Sheet: Diacetyl Tartaric Acid Ester of Mono and Diglyceride (DATEM)**1. SECTION 1: Identification of the substance/Preparation & Company/Undertaking**

| | |
|----------------------|---|
| Brand Name: | DynaTar 95-62-80 |
| Substance Name: | DATEM |
| Chemical Name: | Diacetyl Tartaric Acid Ester of Mono and Diglyceride |
| CAS Number: | 308068-42-0 |
| ECHA InfoCard: | Not Known |
| PubChem CID: | Not Known |
| EC Number: | E 472e |
| Product Code: | DynaTar 95-62-80 |
| Recommended use: | Food, Beverage, Pharmaceutical, Health & Personal care products, Agriculture/Animal Feed/Poultry. production of biscuits, bread, coffee whiteners, salsa con queso, ice cream, and salad dressings |
| Restrictions on use: | For manufacturing use only |
| Manufacturer's Name: | Savannah Surfactants Limited, 283A Kundaim Industrial Estate, Kundaim, Goa 403115, India Email: anibajaj@savannahgoa.com Phone: +91 9158003421 Emergency Phone: +91 9158444631 |

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2. SECTION 2: Hazard Identification

Classification DynaTar 95-62-80 in accordance with UN GHS/EU Regulation EC 231/2012

Hazard Class and Category Code(s): Not classified as dangerous for supply/use

Hazard statement code(s): None

Precautionary statements: None

Pictogram: No symbol required

Signal word: None

Additional label required: None

3. SECTION 3: Composition

| Name | CAS Number | EC Number | GHS Hazard class & Category code | Percent (w/w) |
|-------|-------------|-----------|----------------------------------|---------------|
| DATEM | 308068-42-0 | E 472e | Not classified as Hazardous | 100 |

4. SECTION 4: First Aid Measures

4.1 Description of first aid measure

| | |
|--------------|--|
| Inhalation | If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If signs/symptoms continue, get medical attention. |
| Skin contact | Wash skin with soap and water |
| Eye contact | Flush eyes with water for at least 15 minutes. Get medical attention if eye irritation develops or persists. |
| Ingestion | Wash out mouth with water. Do not induce vomiting. |

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4.2 Most important symptoms and effects, both acute and delayed

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

5. SECTION 5: Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media Water, foam, water spray, dry powder or carbon dioxide.

Unsuitable extinguishing media None.

5.2 Special hazards arising from the substance or mixture

Combustible material. Decomposes in a fire giving off toxic fumes: Carbon dioxide.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

6. SECTION 6: Accidental Release Measures

6.1 Personal Precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear suitable gloves if prolonged skin contact is likely. Evacuate if necessary. Stop leak if safe to do so.

6.2 Environmental precautions

Do not release large quantities into surface water or into drains.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a lidded container for disposal or recovery

6.4 References to other sections

See section 8, 13

6.5 Additional information

None

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7. SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Ensure adequate ventilation. Avoid contact with skin and eyes. Wash hands and exposed skin after use. Do not eat, drink or smoke at the workplace.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a well-ventilated place.

Storage temperature

Ambient.

Storage life

Stable under normal conditions.

Incompatible materials

Oxidising agents, strong acids, chlorine, fluorine, alcohols.

7.3 Specific end use(s)

Contact supplier for further information

8. SECTION 8: Exposure control/Personal protection

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Check for country-specific OELs

8.1.2 PNECs and DNELs

| DNEL/DMEL | Oral | Inhalation | Dermal |
|--|---------------------------------|----------------------|-----------|
| Industry- Long Term- Local effects | | 55 mg/m ³ | |
| Industry- Long Term- Systemic effects | | 55 mg/m ³ | 833 mg/kg |
| Industry- Short Term- Local effects | | | |
| Industry- Short Term- Systemic effects | | | |
| Consumer- Long Term- Local effects | | 33 mg/m ³ | |
| Consumer- Long Term- Systemic effects | 500 mg/kg | 12 mg/kg | 500 mg/kg |
| Consumer- Short Term- Local effects | | | |
| Consumer- Short Term- Systemic effects | | | |
| Environment | PNEC | | |
| Aquatic compartment (including sediment) | | | |
| Terrestrial Compartment | Sewage treatment plant: 10 mg/l | | |
| Atmospheric Compartment | | | |

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8.2 Exposure controls

8.2.1 Appropriate engineering controls Ensure adequate ventilation

8.2.2 Personal protection equipment

Eye protection

Wear protective eye glasses for protection against liquid splashes.



Skin protection

Wear impervious gloves (EN374). Breakthrough time of the glove material: refer to the information provided by the gloves' producer.



Respiratory protection

Normally no personal respiratory protection is necessary. Aerosol formation: Gas filtering respirator (DIN EN 14387).



Thermal Hazards

Not applicable.

8.2.3 Environmental exposure controls

Do not release large quantities into surface water or into drains.

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9. Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Appearance | Solid (Solid Powder) |
| Colour: | Off white |
| Odour | Slight acidic smell. |
| Odour threshold | Not known |
| pH | Not applicable |
| Melting point/ freezing point | Decomposition |
| Initial boiling point and boiling range | Decomposition |
| Flash point | No data available |
| Evaporation rate | No data available |
| Flammability (solid, gas) | Not applicable |
| Upper/lower flammability or explosive Limits | Non-flammable |
| Vapour density | No data available |
| Density (g/ml) | Not known |
| Relative density | 1.00 gm/ml@25°C |
| Solubility (ies) | Dispersible in cold and hot water; soluble in methanol, |
| Partition coefficient: n-octanol/water | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature (°C) | No data available |
| Explosive properties | Not explosive |
| Oxidising properties | Not oxidising |

9.2 Other information

| | |
|---------------------|-------------------|
| Kinematic Viscosity | No data available |
| Surface tension | No data available |

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10. Section 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

Explosive when mixed with oxidizing substances

10.4 Conditions to avoid

Heat and direct sunlight

10.5 Incompatible materials

Oxidizing agents, strong acids, chlorine, fluorine, alcohols

10.6 Hazardous decomposition products

Thermal decomposition will evolve: Carbon monoxide

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11. Section 11: Toxicological Information

11.1 Information on toxicological effects

| | |
|--------------------------------|--|
| Acute toxicity- Ingestion | Not classified LD50 (24 hour) (rat): >2000 mg/kg |
| Acute toxicity- Skin contact | Not classified |
| Acute toxicity- Inhalation | Not classified LD50 (rabbit): >18.7 g/kg |
| Skin corrosion/irritation | Not classified |
| Serious eye damage/irritation | Not classified |
| Skin sensitization data | Not classified |
| Respiratory sensitization data | Not classified |
| Germ cell mutagenicity | Not classified |
| Carcinogenicity | Not classified Oral NOAEL (rat) (mouse): 2500 mg/kg |
| Reproductive toxicity | Not classified Oral NOAEL (rat): 2000 mg/kg Effects on fertility NOAEL (rat): 1310 mg/kg Developmental toxicity |
| Lactation | Not classified |
| STOT- single exposure | Not classified |
| STOT- repeated exposure | Not classified Oral NOAEL (rat): 10000 mg/kg Inhalation NOAEL (rat): 165 µg/kg |
| Aspiration hazard | Not classified |

11.2 Other information

Not known

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12. Section 12: Ecological information

12.1 Toxicity

| | |
|-----------------------------------|---|
| Toxicity- Aquatic Invertebrates | Daphnia magna EC50 (48 hour): >1000 mg/l |
| Toxicity- Fish | Poecilia reticulata LC50 (96 hour): >1000 mg/l |
| Toxicity- Algae | Selenastrum capricornicum EC50 (96 hour): >1000 mg/l |
| Toxicity- Sediment Compartment | Not classified |
| Toxicity- Terrestrial Compartment | Not classified |

12.2 Persistence and degradation

Abiotic degradation
Hydrolyses, Water
half-life: >1y@25°C@pH: 4-9

Biodegradation
Readily biodegradable. (Tested according to: Closed bottle test,
Degradation, after 28 d: >60%)

12.3 Bioaccumulative potential

Bioconcentration factor (BCF): Log Pow: <3
The substance has low potential for bioaccumulation.

12.4 Mobility in soil

Soil, sediment
Log Koc: <1.26 @ pH 7

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB

12.6 Other adverse effects

Not known

13. Section 13: Disposal considerations

13.1 Water treatment methods

Refer to manufacturer/supplier for information on recovery/recycling. The organic ingredients can be biodegraded in a sewage plant after neutralization. Incineration by an approved method could be considered.

13.2 Additional information

Disposal should be in accordance with local, state and national legislation

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Not classified as hazardous for transport

| | |
|----------------------------------|---|
| DOT classification | Not a DOT controlled material (United States) |
| Identification | Not applicable |
| Special provisions for transport | Not applicable |
| Proper shipping name | Not regulated by IATA/ICAO/INDG/DOT |
| DOT shipping class | Not regulated by IATA/ICAO/INDG/DOT |
| DOT Hazard Classification | Not regulated by IATA/ICAO/INDG/DOT |
| DOT placard | Not regulated by IATA/ICAO/INDG/DOT |
| Identification number | Not regulated by IATA/ICAO/INDG/DOT |
| DOT markings | Not regulated by IATA/ICAO/INDG/DOT |
| Hazardous substance/RQ | Not regulated by IATA/ICAO/INDG/DOT |

There are no special transport requirements for this product.

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15.Section 15: Regulatory information

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

European Regulations

Authorisations and/or restrictions on use

Candidate list of substances of very high concern for authorisation

Not listed

REACH: Annex XIV list of substances subject to authorisation

Not listed

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not listed

Community Rolling Action Plan (CoRAP)

Not listed

Regulation (EC) No 850/2004 of the European Parliament and the Council of persistent organic pollutants

Not listed

Regulation (EC) No 2037/2000 on substances that deplete the ozone layer

Not listed

Regulation (EU) No 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Not listed

National regulations

Other

Not known

15.2 Chemical Safety Assessment

REACH chemical assessment not applicable to food emulsifiers

15.3 Inventory Status

Listed in: United States (TSCA), Australia (AICS), Canada (DSL,NDSL), China (IECSC), Japan (ENCS), South Korea (KECI), New Zealand Inventory (NZLoC), Philippines (PICCS), Taiwan (TCSI)

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16. Section 16: Other information

The following sections contain revisions or new statements: 1-16

LEGEND

Hazard Pictogram(s): None

Hazard Statement(s): None

Precautionary Statement(s): None

Acronyms

CAS: Chemical Abstracts Service
 CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
 DNEL: Derived No Effect Limit
 EC: European Community
 EINECS: European Inventory of Existing Commercial Chemical Substances
 LTEL: Long term exposure limit
 PBT: Persistent, Bioaccumulative and Toxic
 PNEC: Predicted No Effect Concentration
 REACH: Registration, Evaluation, Authorisation and Restrictions of Chemicals
 STEL: Short term exposure limit
 STOT: Specific Target Organ Toxicity
 vPvB: very Persistent and very Bioaccumulative

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