

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



70370 Dibasic Ester

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Revised edition: 04.04.2022

Version: 13

Printed: 20.06.2023

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Dibasic Ester

Article No.: 70370

UFI: --

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:
Industrial application

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.com

E-Mail: info@kremer-pigmente.com

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

1.4.2 Poison Center:

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

This product does not require classification and labelling as hazardous according to CLP/GHS.

Possible Environmental Effects:

2.2. Label Elements

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

No classification required according to the CLP/GHS guidelines.

Hazard designation:

Not applicable.

Signal word:

Hazard designation:

Safety designation:

Hazardous components for labelling:

2.3. Other Hazards

3. Composition/Information on Ingredients

Substance

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3.1.

3.2. Mixture

Chemical Characterization:

Reaction mass of dimethyl adipate and dimethyl glutarate and dimethyl succinate

Information on Components / Hazardous Ingredients:

Dicarboxylic acid ester; REACH Reg. No. 01-2119475445-32-xxxx

100 %

CAS-Nr:

EINECS-Nr: 906-170-00

EC-Nr:

Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Do not leave affected persons unattended.

Take person away from hazardous area.

Remove contaminated clothes immediately.

If symptoms occur, or in case of doubt seek medical advice.

Stable side position in case of unconsciousness.

After inhalation:

Supply fresh air. If required give artificial respiration. In case of complaints or unconsciousness consult a physician. In case of unconsciousness place patient stable in side position for transportation.

After skin contact:

Remove contaminated clothing. Wash off immediately with plenty of water and soap.

After eye contact:

Remove contact lens.

Rinse open eye for several minutes under running water. Should irritation continue, seek medical advice.

After ingestion:

Do not induce vomiting. Consult physician immediately.

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

Headache, dizziness, breathing difficulties.

Effects:

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Subsequent observation for pneumonia and pulmonary edema. Monitor the circulation.

5. Fire-Fighting Measures

5.1. Extinguishing Media

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Suitable extinguishing media:

Carbon dioxide (CO₂), extinguishing powder, water spray, sand.

Unsuitable extinguishing media:

Water with full jet.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

In case of fire: formation of carbon monoxide, carbon dioxide, sulfur oxides, phosphorus oxides.

Risk of bursting of closed containers due to strong heating.

Do not inhale explosion and smoke fumes and gases.

5.3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Further information:

Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Ensure adequate ventilation.

Keep away from sources of ignition. No smoking.

6.2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.

Contact local authorities if product pollutes soil or vegetation.

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

Contain with absorbent material (sand, diatomaceous earth, acid binder, universal absorbent) and dispose accordingly.

6.4. Reference to other Sections

For information for safe handling see Section 7.

Protective clothing, see Section 8.

Dispose of contaminated material according to Section 13.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

Provide adequate ventilation.

Hygienic measures:

Do not eat or drink during work. Do not smoke.

Change contaminated clothing. Wash hands after work.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in a cool and dry place.

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Requirements for storage areas and containers:

No special measures necessary.

Information on fire and explosion protection:

No special measures necessary.

Storage class:

10; Combustible liquids (TRGS 510)

Further Information:

7.3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

TRGS 900

Dimethyl glutarate (CAS 1119-49-0), TLV: 8 mg/m³, 1.2 ml/m³, 2 (I); AGS, Y

Dimethyl succinate (CAS 106-65-0), TLV: 8 mg/m³, 1.2 ml/m³, 2 (I); AGS, Y

Dimethyl adipate (CAS 627-93-0), TLV: 8 mg/m³, 1.2 ml/m³, 2(I); AGS, Y

Y: No teratogenic risk when the exposure limit values (ELV) and biological limit values (BLV) are adhered to.

Parameters to be controlled:

Derived No-Effect Level (DNEL):

8.3 mg/m³ (worker, inhalation, long-term exposure - local effects)

Predicted No-Effect Concentration (PNEC):

Fresh water: 0.018 mg/l

Fresh water sediment: 0.16 mg/kg

Sea water: 0.002 mg/l

Sea water sediment: 0.016 mg/kg

Soil: 0.09 mg/kg

Sewage treatment system (STP): 10 mg/l

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Provide adequate ventilation/exhaust system.

Personal Protection

General protective measures:

Remove contaminated clothing. Wash hands after work.

Keep away from foodstuffs, beverages and feed.

Respiratory protection:

Respiratory equipment required in case of insufficient ventilation.

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Filter type AX (organic vapors).

Hand protection:

Chemical protective gloves (EN 374 (Europe), F739 (US)).

Protective glove material:

Polyethylene (PE), chloroprene rubber (CR), butyl rubber (> 0.35 mm)

Recommended: Protective index 4, corresponding > 120 min. of permeation time (EN 374).

Eye protection:

Safety glasses (EN 166)

Body protection:

Protective clothing.

Environmental precautions:

*Prevent contamination of open water ways and sewage system.
Avoid contamination of ground water.*

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>liquid</i>
<i>Color:</i>	<i>colorless</i>
<i>Odor:</i>	<i>characteristic</i>
<i>Odor threshold:</i>	<i>no information available</i>
<i>pH-Value:</i>	<i>not available</i>
<i>Melting temperature:</i>	<i>-55.4°C (101 kPa)</i>
<i>Boiling temperature:</i>	<i>209.3°C (99.3 kPa)</i>
<i>Flash point:</i>	<i>99°C (100.2 kPa)</i>
<i>Evaporation rate:</i>	<i>not determined</i>
<i>Flammability (solid, gas):</i>	<i>Product is combustible, but not easily flammable.</i>
<i>Upper explosion limit:</i>	<i>not determined</i>
<i>Lower explosion limit:</i>	<i>not determined</i>
<i>Vapor pressure:</i>	<i>0.47 Pa (25°C)</i>
<i>Vapor density:</i>	<i>No information available.</i>
<i>Density:</i>	<i>1.09 g/cm³ (20°C)</i>
<i>Solubility in water:</i>	<i>5.3 g/l (20°C)</i>

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Auto-ignition temperature: > 400°C (102.9 kPa)

Decomposition temperature:
not determined

Viscosity, dynamic: 2.4 cSt (20°C)

Explosive properties:
Product does not present an explosion hazard.

Oxidizing properties:
no information available

Bulk density:

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

Temperature class: T2 (maximum temperature: 300°C)

Surface tension: 35.6 dyn/cm (20°C)

10. Stability and Reactivity

10.1. Reactivity
No information available.

10.2. Chemical Stability
Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions
Unknown.

10.4. Conditions to Avoid
Conditions to avoid:
No information available.

Thermal decomposition:

10.5. Incompatible Materials
Strong oxidizing agents.

10.6. Hazardous Decomposition Products
Hazardous combustion products: see section 5.

10.7. Further Information

11. Toxicological Information

11.1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

Acute Toxicity
Is not classified as acutely toxic.

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LD50, oral: > 5000 mg/kg (rat)
LD50, dermal: > 2000 mg/kg (rat)
LC50, inhalation: > 11 mg/l (4h, rat)

Primary effects

Irritant effect on skin:
No irritant effect known.

Irritant effect on eyes:
Non-irritating to eyes

Inhalation:
No irritant effect known.

Ingestion:
No irritant effect known.

Sensitization:
No sensitizing effects known.

Mutagenicity:
No mutagenic effects known.

Reproductive toxicity:
No relevant data found.

Carcinogenicity:
No cancerogenic effect known.

Teratogenicity:
No information available.

Specific target organ toxicity (STOT):
No negative effects.

Aspiration hazard:
No risk of aspiration.

11. 2. Information on other Hazards
No further information available.

12. Ecological Information

12. 1. Aquatic Toxicity
Not hazardous to the aquatic environment.

Fish toxicity:
Dimethyl succinate (106-65-0): LC50: < 100 mg/l (96h, fish)

Daphnia toxicity:
Dimethyl succinate (106-65-0): EC50: < 100 mg/l (24h, invertebrates)
Dimethyl adipate (627-93-0): EC50: 72 mg/l (48h, invertebrates)

Bacteria toxicity:
Dimethyl succinate (106-65-0): EC50 (Chronic): > 1000 mg/l (3h, mikroorganisms)

Algae toxicity:

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Dimethyl succinate (106-65-0): ErC50: >100 mg/l (72h, algae)

12.2. Persistency and Degradability

97 % (28d; OECD 301B)

12.3. Bioaccumulation

No information available.

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

No data available.

12.6. Endocrine Disrupting Properties

Not listed.

12.7. Other Adverse Effects

Water hazard class:

1, slightly hazardous (German Regulation; Self-assessment).

Behaviour in sewage systems:

Further ecological effects:

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

Must be treated as toxic waste according to local laws and regulations.

Do not allow product to leak into the sewage system, waters or soil. This material and its container must be disposed of in a safe way.

European Waste Code (EWC):

Uncleaned packaging:

Dispose of according to official local regulations.

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA

14.2. UN Proper Shipping Name

ADR/RID:

No hazardous goods according to ADR / DOT (US) (land transportation).

IMDG/IATA:

Not hazardous goods

14.3. Transport Hazard Classes

ADR Class:

not applicable

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Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

not applicable

Hazard no.:

EmS No.:

IATA Class:

not applicable

Hazard no.:

14.4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14.5. Environmental Hazards

None

14.6. Special Precautions for User

Not classified as a dangerous good under transport regulations.

14.7. Maritime Transport in Bulk according to IMO Instruments

not applicable

Not transported by sea in bulk.

14.8. Further Information

15. Regulatory Information

15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

1, slightly hazardous for water (according to the German Regulation AwSV)

Local regulations on chemical accidents:

Seveso III Directive: not applicable under Directive 2012/18/EC.

Employment restrictions:

Restriction and prohibition of application:

Technical instructions on air quality:

5.2.5.: Organic substances (as total dust): > 25 wt-% (m_g = 0.50 kg/h, Konz. 50 mg/m³)

15.2. Chemical Safety Assessment

No Chemical Safety Assessment (CSA) is yet available for the substance, or for the component substances, contained in this product.

15.3. Further Information

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High Concern (SVHC): not regulated / not applicable

RoHS Directive 2011/65/EC on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHs): not listed.

VOC Content: max 3 %

Listed in the following inventories:

REACH (EU), TSCA (US), DSL (CA), AICS (AUS), ENCS (JP), KECI (KR), PICCS (PH), IECSC (CN), NZIoC (NZ), TCSI (TW), CICR (TR)

Decopaint Directive (2004/42/EC):

VOC Content: 100 %

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.