

Shandong Guangtong New Materials Co., Ltd

EU Safety Data Sheet

Dodecanedioic Acid

According to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No.2015/830
Date of print: 1/14/2023 Revision date: 1/14/2023 Date of first version: 11/14/2020



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

company/undertaking

1.1 Product identifier

Trade Name: Dodecanedioic Acid

CAS-Number: 693-23-2

EC-number: 211-746-3

Registration number: 01-211*****32-40-0010

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

General use: Chemical basic material.

For industrial purposes only.

1.3 Details of the supplier of the safety data sheet

Company name: Shandong Guangtong New Materials Co., Ltd

Street/POB-No.: No. 16, Guangtong Road, Longquan Town, Zichuan District

State/city/postal code: Zibo City, Shandong Province, 255144 China

Telephone: +86-532-86959667

Fax: +86-532-86760085

Dept. responsible for information:

REACH Department,

Telephone: +86-532-86959667, E-mail: sales@changyuintl.com

Only Representative company: Red Orchid Consulting Oy Ltd

Contact details: william.zhou@jirechchina.com

1.4 Emergency telephone number

REACH Department, China, Telephone: +86-532-86959667

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP):

Eye Irrit. 2; H319 Causes serious eye irritation.

2.2 Label elements

Labelling (CLP)



Signal word

Warning

Hazard Statements

H319 Causes serious eye irritation.

Precautionary statements:

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.
P337+P313 If eye irritation persists: Get medical advice/attention.

(To be continued from Section 2.)

2.3 Other hazards

No risks worthy of mention.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical characterization(substance): $\text{HOOC}-(\text{CH}_2)_{10}-\text{COOH} = \text{C}_{12}\text{H}_{22}\text{O}_4$

Cas-Number: 693-23-2

EINECS-Number: 211-746-3

SECTION 4: First-aid measures

4.1 Description of first aid measures

In case of inhalation: Provide fresh air. Seek medical treatment in case of troubles.

In case of skin contact: Remove residues with water. Take off immediately all contaminated clothing. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After swallowing: Drink large quantities of water. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

In case of inhalation: May cause irritations.

In case of ingestion: May cause irritations.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, foam, extinguishing powder, carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Combustible. In case of fire may be liberated: Carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus. Wear suitable protective clothing.

Additional information: Hazchem-Code: -

Use water spray jet to knock down vapours. Do not allow fire water to penetrate into surface or ground water.

SECTION 6: Accidental release measure

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Avoid contact with the substance.



Avoid generation of dust. Do not breathe dust. Ensure adequate ventilation, especially in confined areas.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

6.3 Methods and material for containment and cleaning up

(To be continued from Section 6.)

Collect dry and place in appropriate containers for disposal, cleaning.

6.4 Reference to other sections

Not required.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling Wear protective equipment. Avoid contact with skin, eyes, and clothing.

Avoid generation of dust. In case of dust: Provide adequate ventilation, and local exhaust as needed.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Store container tightly closed in a dry and cool place.

7.3 Specific end use(s)

No information available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Additional information: Contains no substances with occupational exposure limit values.

8.2 Exposure controls

In the case of the formation of dust: Withdraw by suction.

Occupational exposure controls

Respiratory protection: In case of dust formation: Particulates filter P2 according to EN 143.

Hand protection: Protective gloves according to EN 374.

Glove material: Nitrile rubber

Breakthrough time: >480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed safety glasses according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Take off immediately all contaminated clothing.

After work, wash hands and face.

Avoid contact with skin and eyes. Do not breathe dust.

Work place should be equipped with a shower and an eye rinsing apparatus.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: solid, scales

Colour: white



Odour:	odourless
Odour threshold:	No data available
pH value:	at 20 °C: 5
Melting point/ melting range:	125-135 °C
Initial boiling point and boiling range:	205 °C
(To be continued from Section 9.)	
Flash point/ flash point range:	220 °C (DIN 51758)
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapour pressure:	at 20 °C: <= 0.01 hPa
Vapour density:	No data available
Density:	No data available
Water solubility:	at 20 °C: 0.04 g/L
Partition coefficient: n-octanol/water:	3.17 log P(o/w) (calculated) Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.
Auto-ignition temperature:	No data available
Decomposition temperature:	> 230 °C
Viscosity, dynamic:	at 150 °C: 6.81 mPa*s
Explosive properties:	No data available
Oxidizing characteristics:	No data available

9.2 Other information

Ignition temperature: > 390 °C (DIN 51794)

SECTION 10: Stability and reactivity

10.1 Reactivity

In case of strong heating: Explosive vapour/air-mixtures are formed.
Danger of dust explosion.

10.2 Chemical stability

Product is stable under normal storage conditions.

10.3 Possibility of hazardous reactions

Violent reaction with strong oxidizing agents.

10.4 Conditions to avoid

Protect from excessive heat.
Avoid temperatures above or near flash point.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide and carbon dioxide.

Thermal decomposition: > 230 °C

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: LD 50 Rat, oral: > 3000 mg/kg



LD 50 Rabbit, dermal: > 6000 mg/kg

Toxicological effects:

Acute toxicity (oral): Based on available data, the classification criteria are not met.

(To be continued from Section 11.)

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Rabbit: Does not cause irritation. (OECD 404)

Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation. Rabbit: irritant (OECD 405)

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Based on available data, the classification criteria are not met. Guinea pig: negative (OECD 406)

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

Genotoxicity in-vitro: negative. Method: Ames test: (IUCLID) Carcinogenicity: Lack of data.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data. Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Based on available data, the classification criteria are not met.

Symptoms In case of inhalation: May cause irritations.

In case of ingestion: May cause irritations.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Algae toxicity:EC50 Scenedesmus quadricauda (Grünalge): 150 mg/L/96h

Daphnia toxicity:EC50 Daphnia magna (Großer Wasserfloh): 220 mg/L/48h

Fish toxicity:LC50 fische: 200 mg/L/96h

12.2 Persistence and degradability

Further details: Biodegradability:

Product is readily biodegradable. Biodegradation: 71%/28 d. (OECD 301D).

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water:



3,17 log P(o/w) (calculated)

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

12.4 Mobility in soil

(To be continued from Section 12.)

No data available.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number 07 01 99 = Wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals

MFSU = manufacture, formulation, supply and use

Recommendation: Special waste. Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.

Handle contaminated packages in the same way as the substance itself.

Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR: Not applicable.

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR: Not restricted

14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR: Not applicable.

14.4 Packing group

ADR/RID, IMDG, IATA-DGR: Not applicable.

14.5 Environmental hazards

Marine Pollutant No

14.6 Special precautions for user

No dangerous goods in sense of these transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 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

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National regulations - Great Britain

Hazchem-Code: -

No data available

[\(To be continued from Section 15.\)](#)

National regulations - EC member states

Labelling of packaging with <= 125mL content



Signal word

Warning

Hazard Statements

Not applicable.

Precautionary statements: Not applicable

15.2 Chemical Safety Assessment

No data available.

SECTION 16: Additional information

Further information

Reason of change: General revision (Regulation (EU) No 2015/830)

Date of first version: 11/14/2020

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

Further Information

The information of this data sheet above has been established to our current best knowledge and experience and was up-to-date at time of revision. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The above details do not imply any guarantee for the properties composition, properties or performance of the product described in terms of the legal warranty regulations. Users should make their own investigations to determine the suitability of the information for their particular purposes.

End of SDS