

# SAFETY DATA SHEET

1. Identification

Product identifier 1,10-DECANEDIOL, 98%

Other means of identification

Product code 3824

**Recommended use** professional, scientific and technical activities: other professional, scientific and technical activities

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

**Manufacturer** 

**Company name**Address
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United States

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number

## 2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

**Label elements** 

Hazard symbol None.
Signal word None.

**Hazard statement** The substance does not meet the criteria for classification.

**Precautionary statement** 

**Prevention** Observe good industrial hygiene practices.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** None.

## 3. Composition/information on ingredients

## **Substances**

Chemical name	Common name and synonyms	CAS number	%
1,10-DECANEDIOL		112-47-0	100

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

**Inhalation** If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a

physician if symptoms develop or persist.

**Skin contact**Wash off with soap and water. Get medical attention if irritation develops and persists. **Eye contact**Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Drink plenty of water.

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Most important

symptoms/effects, acute and

delayed

Irritation of eyes. Upper respiratory tract irritation.

**Indication of immediate** 

medical attention and special treatment needed

**General information** 

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

**Unsuitable extinguishing** 

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

None known.

**Special protective equipment** and precautions for

firefighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand

breathing apparatus, protective clothing and face mask. Wear SCBA.

Fire fighting

equipment/instructions

Use water spray to cool unopened containers.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards** No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust from the spilled material. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. For personal

protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). This product is miscible in water. Stop the flow of material, if this is without risk. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Following product recovery, flush area with water. For waste disposal, see

section 13 of the SDS.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

**Precautions for safe handling** 

Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes. Practice good housekeeping.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep containers tightly closed.

#### 8. Exposure controls/personal protection

**Occupational exposure limits** 

No exposure limits noted for ingredient(s).

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

Respiratory protection Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels

exceeding the exposure limits.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

**General hygiene** considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

Flakes. Powder. **Appearance** 

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Solid. **Physical state Form** Powder. Color White. Odor Very faint. **Odor threshold** Not available. рH Not available. Melting point/freezing point 163.4 °F (73 °C)

Initial boiling point and

566.6 °F (297 °C)

boiling range

320.0 °F (160.0 °C) Pensky-Martens Closed Cup Flash point

Not available. **Evaporation rate** Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Not available.

Flammability limit - lower

(%)

Flammability limit -

Not available.

upper (%)

**Explosive limit - lower** 

(%)

Not available.

**Explosive limit - upper** 

Not available.

(%)

Vapor pressure Not available. Vapor density Not available. **Relative density** Not available.

Solubility(ies)

Solubility (water) 0.7 g/l at 20 °C

**Partition coefficient** 2.01

(n-octanol/water)

**Auto-ignition temperature** 608 °F (320 °C) **Decomposition temperature** Not available. **Viscosity** Not available.

Other information

**Density** 0.89 g/cm3

Flammability class Combustible IIIB estimated

Flash point class Combustible IIIB **Molecular formula** C10H22O2 Molecular weight 174.28 g/mol

Specific gravity 0.89

## 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

**Conditions to avoid** None known. Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing

dust surfaces with compressed air).

**Incompatible materials** Oxidizing material.

**Hazardous decomposition** 

May include oxides of carbon.

products

## 11. Toxicological information

### Information on likely routes of exposure

**Inhalation** Inhalation of dusts may cause respiratory irritation. Skin contact No adverse effects due to skin contact are expected.

Eye contact Dust in the eyes will cause irritation. Ingestion Expected to be a low ingestion hazard.

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Irritation of eyes. Upper respiratory tract irritation.

## Information on toxicological effects

**Acute toxicity** 

Product Species Test Results

1,10-DECANEDIOL (CAS 112-47-0)

<u>Acute</u>

LD50 > 5000 mg/kg

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation. **Serious eye damage/eye** Dust in the eyes will cause irritation. May irritate eyes.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not available. **Skin sensitization** None known.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

**US OSHA Hazard Categories (1)** 

Not regulated.

**US OSHA Hazard Categories (10)** 

Not regulated.

**US OSHA Hazard Categories (2)** 

Not regulated.

**US OSHA Hazard Categories (3)** 

Not regulated.

**US OSHA Hazard Categories (4)** 

Not regulated.

**US OSHA Hazard Categories (5)** 

Not regulated.

**US OSHA Hazard Categories (6)** 

Not regulated.

**US OSHA Hazard Categories (7)** 

Not regulated.

**US OSHA Hazard Categories (8)** 

Not regulated.

**US OSHA Hazard Categories (9)** 

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity

- single exposure

Not classified.

Specific target organ toxicity

- repeated exposure

Not classified.

**Aspiration hazard** Not available.

12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Persistence and degradability** None known. **Bioaccumulative potential** Not available.

Partition coefficient n-octanol / water (log Kow)

2.01

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**Mobility in soil** No data available.

**Other adverse effects**No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

## 14. Transport information

DOT

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

## 15. Regulatory information

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazarc

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

**US OSHA Hazard Categories (1)** 

Not regulated.

**US OSHA Hazard Categories (2)** 

Not regulated.

**US OSHA Hazard Categories (3)** 

Not regulated.

**US OSHA Hazard Categories (4)** 

Not regulated.

**US OSHA Hazard Categories (5)** 

Not regulated.

**US OSHA Hazard Categories (6)** 

Not regulated.

**US OSHA Hazard Categories (7)** 

Not regulated.

**US OSHA Hazard Categories (8)** 

Not regulated.

**US OSHA Hazard Categories (9)** 

Not regulated.

**US OSHA Hazard Categories (10)** 

Not regulated.

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## Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

## SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312** No

**Hazardous chemical** 

#### SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

### **US state regulations**

### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

#### **US. Massachusetts RTK - Substance List**

Not regulated.

## **US. New Jersey Worker and Community Right-to-Know Act**

Not listed.

#### US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

#### **US. Rhode Island RTK**

Not regulated.

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

## **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

## 16. Other information, including date of preparation or last revision

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A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Disclaimer

GFS Chemicals, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

**Revision information** 

Product and Company Identification: Physical States

Composition / Information on Ingredients: Disclosure Overrides

Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Data Regulatory Information: United States