

SAFETY DATA SHEET



DP-1022

Version 1.0

Revision Date 04/23/2015

Print Date 04/24/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DP-1022
CAS Number: 2163-42-0
Chemical characterization : Glycols
Chemical Name : 2-Methyl-1,3-Propanediol
Synonyms : MPD

Identified uses : Monomer; Intermediate; Functional Fluids

Prohibited uses : Aerosol applications such as theater fogs, linen sprays, pepper sprays, air sanitizers

Company : Everchem Specialty Chemicals
1400 N. Providence Rd
Media, PA 19063

Telephone : Customer Service 484-234-5030

Emergency telephone : CHEMTREC USA & CANADA 1-800-424-9300 / 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not classified as hazardous according to OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012).

Label elements

Not classified as hazardous according to OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012).

Other hazards

No additional information available.

3. Composition/information on ingredients

Substances

Ingredients

Chemical Name	CAS-No. EC-No.	Weight %	Component Type
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2-Methyl-1,3-Propanediol 2163-42-0 >= 98.0 % A

Key:
(A) Substance

SECTION 4. FIRST AID MEASURES

First aid procedures

- If inhaled : If overcome by exposure, remove victim to fresh air immediately.
Call a physician.
Give artificial respiration if not breathing.
- In case of skin contact : Remove contaminated clothing and wash skin with plenty of soap and water.
- In case of eye contact : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Flush eyes thoroughly with water for several minutes and seek medical attention if discomfort persists.
- If swallowed : Ingestion unlikely.
However, if ingested, obtain emergency medical attention.

Notes to physician

- Hazards : May cause damage to organs if inhaled.
Not expected to present a significant skin hazard under anticipated conditions of normal use.
- Treatment : Treat symptomatically.
Do NOT induce vomiting.

SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties

- Flash point : ~ 261 °F (127 °C)
Method: (PMCC)
- Autoignition temperature : 716 °F (380 °C)
at 1,013 hPa (760 mm Hg)
- Lower explosion limit : No Data Available.
- Upper explosion limit : No Data Available.

Fire fighting

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Suitable extinguishing media : SMALL FIRE: Use dry chemical, CO2, water spray or regular foam. LARGE FIRE: Use water spray, water fog or regular foam. Do not use straight streams.

Unsuitable extinguishing media : Do not use solid water stream - may spread fire.

Protective equipment and precautions for firefighters

Specific hazards during fire fighting : Heat from fire can generate flammable vapor. Vapors may be heavier than air. Fine sprays/mists may be combustible at temperatures below normal flash point. Move containers from fire area if it can be done without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

Special protective equipment for fire-fighters : Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighter's protective clothing will only provide limited protection.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use personal protective equipment. Evacuate personnel to safe areas. Ensure adequate ventilation. Eliminate all sources of ignition.

Environmental precautions : If necessary, all contaminated waste water must be treated in a municipal or industrial wastewater treatment plant before release to surface water.

Chemical removal by air and water pollution control devices must meet the minimum efficiency requirements needed to reduce exposures to an acceptable level.

Methods for containment / Methods for cleaning up : Eliminate all sources of ignition. All equipment used when handling this product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible

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material and transfer to containers.
Use clean non-sparking tools to collect absorbed material.
Dike large spills and place materials in salvage containers.
Water spray may reduce vapor; but may not prevent ignition in closed spaces.

SECTION 7. HANDLING AND STORAGE

Handling

Advice on safe handling : Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
Handle with care.
Keep container tightly closed when not in use.
If desired, the material may be warmed (25 - 30°C/77 - 86°F) to enhance the products flow.
Use caution if applying heat localized overheating may cause possible product degradation and over-pressurize containers.
Empty containers should be thoroughly rinsed with copious amounts of clean water.
The rinse water can be used for makeup water for any necessary dilution of the concentrated product before use, or it can be properly discarded.
Isolate, vent, drain, wash and purge systems or equipment before maintenance or repair.

Storage

Requirements for storage areas and containers : Store locked up.
If desired, store in a warm location (25 - 30°C/77 - 86°F) to assist in emptying containers.
Keep floor around container free of spilled product to prevent highly viscous material from sticking to and contaminating shoes.

8. Exposure controls/personal protection

Control parameters

Ingredients with workplace control parameters

Consult local authorities for acceptable exposure limits.

Exposure controls

Engineering measures

Use only in well ventilated areas.
At elevated temperatures, special ventilation may be required even if the flash point has not been exceeded.
Flammable mists or aerosols can be generated below the flash point of high boiling liquids.

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Personal protective equipment

- Respiratory protection : No occupational exposure limit(s) have been established for this material or its components.
Where exposure through inhalation may occur from use, approved respiratory protection equipment is recommended.
- Hand protection : Not normally considered a skin hazard.
Wear chemical resistant gloves such as:
Latex
or
Nitrile.
- Eye and face protection : Even though no eye contact is expected under anticipated conditions of normal use, appropriate eye protection should be worn when handling this material.
- Skin and body protection : Where use can result in skin contact, practice good personal hygiene.
Skin should be washed after contact.
The equipment must be cleaned thoroughly after each use.
- Hygiene measures : Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use.
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Use good personal hygiene practices.
Wash hands before eating, drinking, smoking, or using toilet facilities.
Wash clothing frequently.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

- Physical state : liquid
- Color : Clear, colorless.
- Odor : Little or no odor.

Safety data

- Flash point : ~ 261 °F (127 °C)
Method: (PMCC)
- Lower explosion limit : No Data Available.

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Upper explosion limit : No Data Available.

Flammability (solid, gas) : Not applicable

Oxidizing properties : Not considered an oxidizing agent.

Autoignition temperature : 716 °F (380 °C)
at 1,013 hPa (760 mm Hg)

Decomposition temperature : not determined

pH : ~ 6.5

Melting point/range : -65 °F (-54 °C)
at 1,013 hPa (760 mm Hg)

Boiling point/boiling range : 414 °F (212 °C)
at 1,013 hPa (760 mm Hg)

Vapor pressure : 0.028 hPa (0.021 mm Hg)
at 77 °F (25 °C)

Density : 1.01 g/cm³
at 68 °F (20 °C)

Water solubility : Miscible

Partition coefficient: n-octanol/water : log Pow: -0.6
at 68 °F (20 °C)

Viscosity, kinematic : 66.6 mm²/s
at 104 °F (40 °C)

Relative vapor density : 3.2
(Air = 1.0 at 15 - 20°C/59 - 68°F)

Surface tension : 72.2 mN/m
at 68 °F (20 °C)

Explosive properties : Not explosive

Remarks - Other information : No additional information available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under recommended storage conditions.

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- Conditions to avoid : Heat, sparks, open flame, and other ignition sources.
- Materials to avoid : Strong oxidizing agents.
- Hazardous decomposition products : Carbon monoxide (based on the chemical structure).
- Thermal decomposition : No Data Available.
- Hazardous reactions : Not expected to occur.

SECTION 11. TOXICOLOGICAL INFORMATION

- Product Summary** : The below given information is based on the assessment of the product including impurities.
- Acute toxicity**
- Acute oral toxicity** : Based on acute toxicity values, not classified.
- : LD50 (Oral): > 5,000 mg/kg
Species: Rat
- Acute inhalation toxicity** : Based on acute toxicity values, not classified.
Exposure to vapor or aerosol may result in effects on the respiratory tract.
- : LC50: > 5.1 mg/l
Exposure time: 4 HOURS
Species: Rat
- Method: Aerosol
- Acute dermal toxicity** : Based on acute toxicity values, not classified.
Exposure to this product could result in effects on the gastrointestinal tract.
- : LD50: > 2,000 mg/kg
Species: Rabbit
- Skin corrosion/irritation** : Based on skin irritation values, not classified.
- Serious eye damage/eye irritation** : Based on eye irritation values, not classified.
- Respiratory or skin sensitization** : Skin sensitization
Not classified
No adverse effect observed.

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: Respiratory sensitization
Not classified
No study available.

Chronic toxicity

Carcinogenicity : Not classified
Contains a substance that has a positive carcinogenicity study.
Gamma butyrolactone has resulted in equivocal findings in male mice. No evidence of carcinogenicity in male rats or female rats or mice was noted. The findings in the male mice are confounded due to the low survival rates of the male mice on account of lethal in-cage fighting.

Germ cell mutagenicity : Not classified
No adverse effect observed.

Reproductive toxicity

Effects on fertility /
Effects on or via lactation : Not classified
No adverse effect observed.

Effects on Development : Not classified
No adverse effect observed.

**Target Organ Systemic
Toxicant - Single exposure** : Based on single exposure toxicity values, not classified.

**Target Organ Systemic
Toxicant - Repeated
exposure** : Based on repeated exposure toxicity values, not classified.

Aspiration hazard : Based on physico-chemical values or lack of human evidence,
not classified.

12. ECOLOGICAL INFORMATION

Ecotoxicology Assessment

Acute aquatic toxicity : Based on acute aquatic toxicity values, not classified.

Chronic aquatic toxicity : Not classified, based on readily biodegradability and low acute toxicity.

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Toxicity to fish : Low acute toxicity to fish

Toxicity to daphnia and other aquatic invertebrates : Low acute toxicity to aquatic invertebrates.

Toxicity to algae : Low toxicity to algae.

Toxicity to bacteria : Low toxicity to sewage microbes.

Toxicity to fish (Chronic toxicity) : No study available.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Low chronic toxicity to aquatic invertebrates.

Persistence and degradability

Biodegradability : Rapidly degradable.
: 84 %
(After 28 days in a ready biodegradability test)

Bioaccumulative potential

Bioaccumulation : This material is not expected to bioaccumulate.

Mobility in soil

Surface tension : 72.2 mN/m
at 20 °C

Distribution among environmental compartments : Stability in soil
Low potential for soil adsorption expected

: Stability in water
Not expected to hydrolyse in water.

Additional advice : No additional information available.
Environmental fate and pathways

Results of PBT and vPvB assessment

Not applicable.

Other adverse effects

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Additional ecological information

: No additional information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Further information

: Contaminated product, soil, water, container residues and spill cleanup materials may be hazardous wastes.
Dilute aqueous waste may biodegrade.
Avoid overloading/poisoning plant biomass.
Comply with federal/state/local regulations for container disposal.

SECTION 14. TRANSPORT INFORMATION

Not regulated for transport

SECTION 15. REGULATORY INFORMATION

If identified components of this product are listed under the TSCA 12(b) Export Notification rule, they will be listed below.

SARA 302/304

This product contains no known chemicals regulated under SARA 302/304.

SARA 311/312

Based upon available information, this material is not classified as a health and/or physical hazard according to Section 311 & 312.

SARA 313

This product contains no known chemicals regulated under SARA 313.

State Reporting

This material is not known to contain a chemical substance known to the State of California to cause cancer, reproductive, or developmental toxicity under California Proposition 65. However, Everchem has not tested for the presence of listed chemical substances.

This product contains no known chemicals regulated by New Jersey's Worker and Community Right to Know Act.

No components are subject to the Massachusetts Right to Know Act.

This product contains no known chemicals regulated by Pennsylvania's Right to Know Act.

Other international regulations

Global Inventory Status

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The ingredients of this product are compliant with the following chemical inventory requirements or exemptions.

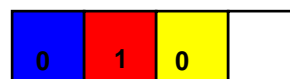
*Additional Explanatory Status Statements follow the table, as necessary.

Country/Region	Inventory	Status Description
Australia	AICS	Compliant
Canada	DSL	Compliant
China	IECSC	Compliant
Europe	REACH	See REACH Compliance Statement
Japan	ENCS	Compliant
Korea	KECI	Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
United States of America	TSCA	Compliant
Taiwan	TCSCA	Compliant

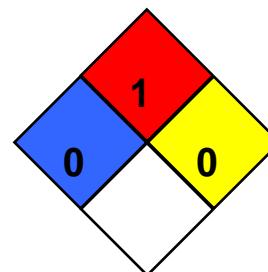
SECTION 16. OTHER INFORMATION

Further information

HMIS Classification : Health Hazard: 0
Flammability: 1
Physical hazards: 0



NFPA Classification : Health Hazard: 0
Fire Hazard: 1
Instability: 0



Material safety datasheet sections which have been updated:

Updated format ; Revised Section(s): 1 - 16 April 23 2015

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Disclaimer

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Information is correct to the best of our knowledge at the date of the SDS publication.

It is not a specification sheet nor should any displayed data be construed as a specification.

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