

SAFETY DATA SHEET

1. Identification

Product identifier FRIGOMET DP 455 V

Other means of identification

Article-No. 40455060

Recommended use Water-miscible metal working fluid. Industrial use.

Recommended restrictions None known.

Manufacturer/Supplier

Oemeta, Inc.

5655 West 610 South Salt Lake City, UT 84104 Phone: (+1) 801 953-0134 Fax: (+1) 801 953-0446

Further information obtainable from

Oemeta Service

Phone: (+49) 4122-924-132 Fax: (+49) 4122-924-157

Emergency Telephone

Number

Toll Free Access within USA, Canada, Mexico: 1.866.519.4752 (24h)

Outside of the US please call: (+1) 760 476 3962 (24h)

Please provide the following code: 333910

2. Hazard(s) identification

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

Label elements

Hazard symbol None.
Signal word None.

Hazard statement The mixture 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

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|-----------------------|--------------------------|------------|----------|
| Ethanol, 2,2'-oxybis- | | 111-46-6 | 5 - < 10 |

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| Chemical name | Common name and synonyms | CAS number | % |
|---------------------------------|--------------------------|------------|------------|
| Ethanol, 2,2'-(methylimino)bis- | | 105-59-9 | 1 - < 5 |
| Other components below report | able levels | | 90 - < 100 |

4. First-aid measures

Inhalation Move 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.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Ingestion Rinse mouth. Get medical attention if symptoms occur. Most important Direct contact with eyes may cause temporary irritation.

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

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

> Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

protect themselves.

NO2).

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

During fire, gases hazardous to health may be formed.

Specific hazards arising from the chemical

Hazardous combustion products

Special protective equipment

and precautions for firefighters

Fire-fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

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

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

This product is miscible in water.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Combustion products may include the following: Carbon oxides (CO, CO2); nitrogen oxides (NO,

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. 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 Avoid prolonged exposure. Observe good industrial hygiene practices.

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the Conditions for safe storage, SDS). Recommended storage temperature: between 10 and 30 °C. including any incompatibilities

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8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. Workplace Environmental Exposure Level (WEEL) Guides

ComponentsTypeValueEthanol, 2,2'-oxybis- (CASTWA10 mg/m3111-46-6)

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

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

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. Recommendation: 706 Lapren (KCL, Germany) with a

layer thickness of at least 0.6 mm. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be

calculated in advance and has therefore to be checked prior to the application.

Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

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

Physical state Liquid.
Color Light yellow.
Odor Characteristic.
Odor threshold Not available.

pH 9.5 - 10.5 ASTM D 1287

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Not available.

Not available.

(%)

Vapor density

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

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Not available. Relative density Soluble. Solubility (water) Not available.

Partition coefficient

(n-octanol/water)

Not available. Not available.

Not available.

Viscosity Other information

Auto-ignition temperature

Decomposition temperature

1060.00 - 1080.00 kg/m3 ASTM D 1298 **Density**

Explosive properties Not explosive.

3 - 5 mm²/s DIN EN 16896 (104 °F (40 °C)) Kinematic viscosity

Oxidizing properties Not oxidizing.

70.6 g/I ASTM E 1868-10 VOC (concentrate)

10. Stability and reactivity

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

No dangerous reaction known under conditions of normal use.

Chemical stability Material is stable under normal conditions.

Conditions to avoid High temperatures. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

No hazardous decomposition products are known. Hazardous decomposition

products

reactions

11. Toxicological information

Possibility of hazardous

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Based on available data, the classification criteria are not met. Skin contact Based on available data, the classification criteria are not met. Eye contact Based on available data, the classification criteria are not met. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Not known. **Acute toxicity**

Components **Species Test Results**

Ethanol, 2,2'-(methylimino)bis- (CAS 105-59-9)

Acute Dermal Liquid

LD50 Rabbit 5990 mg/kg

Oral Liquid

LD50 Rat 4680 mg/kg



Components Species Test Results

Ethanol, 2,2'-oxybis- (CAS 111-46-6)

Acute Dermal Liquid

LD50 Rabbit 13300 mg/kg

Inhalation

Mist

LC50 Rat > 5 mg/l, 4 hours

Oral Liquid

LD50 Rat 19600 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicityThis 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 an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Not available.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulationsDispose 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 packagingSince emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.



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 established.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

All components are identified as active on the U.S. EPA TSCA Inventory List.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No **Hazard categories**

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

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)

Food and Drug

Not regulated.

Administration (FDA)

US state regulations

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. For more information go to www.P65Warnings.ca.gov.

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

Issue date 04-14-2015 **Revision date** 01-10-2022

Version # 5.0 **HMIS®** ratings Health: 0

Flammability: 0 Physical hazard: 0

Health: 0 NFPA ratings

Flammability: 0 Instability: 0

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SDS US



NFPA ratings



Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available. The editor 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.

Revision information Product and Company Identification: Alternate Trade Names

First-aid measures: First Aid Equipment

Accidental release measures: Personal precautions for emergency responders

Handling and storage: Specific uses

Handling and storage: Conditions for safe storage, including any incompatibilities

Physical & Chemical Properties: Multiple Properties Ecological information: Persistence / degradability

Ecological information: Bioaccumulation Ecological information: Mobility in soil Regulatory Information: United States

Approved. TR10012022

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