

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

MMCD Dishliquid-Lavender

Version 1.3

Print Date 05/30/2018

Revision Date 01/23/2018

SDS Number 350000025156

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name : MMCD Dishliquid-Lavender

Recommended use : Hard Surface Cleaner

Restrictions on use : Use only as directed on label

Manufacturer, importer, supplier : Caldrea
1525 Howe Street
Racine WI 53403-2236

Telephone : +1-800-558-5252

Emergency telephone number : 24 Hour Medical Emergency Phone: (866)231-5406
24 Hour International Emergency Phone: (703)527-3887
24 Hour Transport Emergency Phone: (800)424-9300

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Globally Harmonized System (GHS) Classification

This product does not meet the criteria for classification in any hazard class according to regulation OSHA 29 CFR 1910.1200.

Labelling

Precautionary statements

Other hazards : None identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS-No. | Weight percent |
|---------------|---------|----------------|
|---------------|---------|----------------|

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| | | |
|---|-------------|--------------|
| Sulfuric acid, mono-C10-16-alkyl esters, sodium salts | 68585-47-7 | 5.00 - 10.00 |
| Alkylpolyglycoside C10-16 | 110615-47-9 | 5.00 - 10.00 |
| Lauryl dimethyl amine oxide | 1643-20-5 | 1.00 - 5.00 |
| Glycerin | 56-81-5 | 1.00 - 5.00 |

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

For additional information on product ingredients, see www.caldrea.com.

4. FIRST AID MEASURES

Description of first aid measures

Eye contact : No special requirements

Skin contact : No special requirements

Inhalation : No special requirements.

Ingestion : No special requirements

Most important symptoms and effects, both acute and delayed

Eyes : No adverse effects expected when used as directed.

Skin effect : No adverse effects expected when used as directed.

Inhalation : No adverse effects expected when used as directed.

Ingestion : No adverse effects expected when used as directed.

Indication of any immediate medical attention and special treatment needed

See Description of first aid measures unless otherwise stated.

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5. FIREFIGHTING MEASURES

- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during firefighting** : Container may melt and leak in heat of fire.
- Further information** : Fight fire with normal precautions from a reasonable distance. Standard procedure for chemical fires. Wear full protective clothing and positive pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Wash thoroughly after handling.
- Environmental precautions** : Outside of normal use, avoid release to the environment.
- Methods and materials for containment and cleaning up** : Dike large spills.
Clean residue from spill site.

7. HANDLING AND STORAGE

- Handling**
- Precautions for safe handling** : Avoid contact with skin, eyes and clothing.
For personal protection see section 8.
KEEP OUT OF REACH OF CHILDREN AND PETS.
- Advice on protection against fire and explosion** : Normal measures for preventive fire protection.
- Storage**
- Requirements for storage areas and containers** : Keep container closed when not in use.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

| Components | CAS-No. | mg/m ³ | ppm | Non-standard units | Basis |
|------------|---------|----------------------|-----|--------------------|----------|
| Glycerin | 56-81-5 | 15 mg/m ³ | - | - | OSHA TWA |
| Glycerin | 56-81-5 | 5 mg/m ³ | - | - | OSHA TWA |

Personal protective equipment

Respiratory protection : No special requirements.

Hand protection : No special requirements.

Eye protection : No special requirements.

Skin and body protection : No special requirements.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid

Color : Colorless

Odour : floral

Odour Threshold : Test not applicable for this product type

pH : 7.4 - 7.9

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| | |
|---|---|
| Melting point/freezing point | : 0 °C |
| Initial boiling point and boiling range | : Test not applicable for this product type |
| Flash point | : does not flash |
| Evaporation rate | : Test not applicable for this product type |
| Flammability (solid, gas) | : Does not sustain combustion. |
| Upper/lower flammability or explosive limits | : Test not applicable for this product type |
| Vapour pressure | : Test not applicable for this product type |
| Vapour density | : Test not applicable for this product type |
| Relative density | : 1.01 g/cm ³ at 25 °C |
| Solubility(ies) | : soluble |
| Partition coefficient: n-octanol/water | : Test not applicable for this product type |
| Auto-ignition temperature | : Test not applicable for this product type |
| Decomposition temperature | : Test not applicable for this product type |
| Viscosity, dynamic | : 400 - 600 mPa.s |

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| | | | |
|--|---|---|---|
| Viscosity, kinematic | : | Test not applicable for this product type | : |
| Oxidizing properties | : | Test not applicable for this product type | : |
| Volatile Organic Compounds Total VOC (wt. %)* | : | 0.1 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations | : |
| Other information | : | None identified | : |

10. STABILITY AND REACTIVITY

| | | |
|---|---|--|
| Reactivity | : | No dangerous reaction known under conditions of normal use. |
| Chemical stability | : | Stable under recommended storage conditions. |
| Possibility of hazardous reactions | : | If accidental mixing occurs and toxic gas is formed, exit area immediately. Do not return until well ventilated. |
| Conditions to avoid | : | Direct sources of heat. |
| Incompatible materials | : | Do not mix with bleach or any other household cleaners. Strong bases |
| Hazardous decomposition products | : | Thermal decomposition can lead to release of irritating gases and vapours. |

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11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 > 5000 mg/kg

Acute inhalation toxicity : LC50 > 10 mg/L

Acute dermal toxicity : LD50 > 5000 mg/kg

| GHS Properties | Classification | Routes of entry |
|--|----------------------------|----------------------------|
| Acute toxicity | No classification proposed | Oral |
| Acute toxicity | No classification proposed | Dermal |
| Acute toxicity | No classification proposed | Inhalation - Dust and Mist |
| Acute toxicity | No classification proposed | Inhalation - Vapour |
| Acute toxicity | No classification proposed | Inhalation - Gas |
| Skin corrosion/irritation | No classification proposed | - |
| Serious eye damage/eye irritation | No classification proposed | - |
| Skin sensitisation | No classification proposed | - |
| Respiratory sensitisation | No classification proposed | - |
| Germ cell mutagenicity | No classification proposed | - |
| Carcinogenicity | No classification proposed | - |
| Reproductive toxicity | No classification proposed | - |
| Specific target organ toxicity - single exposure | No classification proposed | - |
| Specific target organ | No classification proposed | - |

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| | | |
|------------------------------|----------------------------|---|
| toxicity - repeated exposure | | |
| Aspiration hazard | No classification proposed | - |

Aggravated Medical Condition : None known.

12. ECOLOGICAL INFORMATION

Product : The product itself has not been tested.

Toxicity

The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

Toxicity to fish

| Components | End point | Species | Value | Exposure time |
|---|---|--------------------------|------------------|---------------|
| Sulfuric acid, mono-C10-16-alkyl esters, sodium salts | LC50 Read-across (Analogy) | | > 10 mg/l | |
| Alkylpolyglycoside C10-16 | semi-static test LC50 ISO 7346/2 | Fish | 1 - 10 mg/l | |
| | NOEC | Fish | > 1 - 10 mg/l | |
| Lauryl dimethyl amine oxide | semi-static test LC50 | Danio rerio (zebra fish) | 31.8 mg/l | 96 h |
| | flow- | Pimephales promelas | 0.42 mg/l | 302 d |

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|----------|--|--|----------------------------|------|
| | through test NOEC Read-across (Analogy) | (fathead minnow) | | |
| Glycerin | LC50 | Oncorhynchus mykiss (rainbow trout) | 51,000 - 57,000 mg/l | 96 h |

Toxicity to aquatic invertebrates

| Components | End point | Species | Value | Exposure time |
|---|--|----------------------------|------------------|---------------|
| Sulfuric acid, mono-C10-16-alkyl esters, sodium salts | No data available | | | |
| Alkylpolyglycoside C10-16 | static test EC50 | Daphnia magna (Water flea) | 7 mg/l | 48 h |
| | NOEC | Daphnia | > 1 - 10 mg/l | |
| Lauryl dimethyl amine oxide | static test EC50 | Daphnia magna (Water flea) | 3.9 mg/l | 48 h |
| | flow-through test NOEC Read-across (Analogy) OECD Guideline | Daphnia magna (Water flea) | 0.7 mg/l | 21 d |

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| | | | | |
|----------|---|----------------------------|------------|------|
| | 211 (Daphnia magna Reproduction Test) | | | |
| Glycerin | LC50 | Daphnia magna (Water flea) | 1,955 mg/l | 48 h |

Toxicity to aquatic plants

| Components | End point | Species | Value | Exposure time |
|---|-------------------|---|---------------|---------------|
| Sulfuric acid, mono-C10-16-alkyl esters, sodium salts | No data available | | | |
| Alkylpolyglycoside C10-16 | static test EC50 | Desmodesmus subspicatus (green algae) | 12.5 mg/l | 72 h |
| Lauryl dimethyl amine oxide | static test EC50 | Pseudokirchneriella subcapitata (green algae) | 0.2 mg/l | 72 h |
| Glycerin | No data available | Scenedesmus quadricauda (Green algae) | > 10,000 mg/l | 168 h |

Persistence and degradability

| Component | Biodegradation | Exposure time | Summary |
|---|----------------|---------------|------------------------|
| Sulfuric acid, mono-C10-16-alkyl esters, sodium salts | 100 % | | Readily biodegradable. |
| Alkylpolyglycoside C10-16 | > 70 % | 28 d | Readily biodegradable. |
| Lauryl dimethyl amine oxide | 96 % | 19 d | |
| Glycerin | 94 % | 24 h | Readily biodegradable. |

Bioaccumulative potential

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| Component | Bioconcentration factor (BCF) | Partition Coefficient n-Octanol/water (log) |
|---|-------------------------------|---|
| Sulfuric acid, mono-C10-16-alkyl esters, sodium salts | | |
| Alkylpolyglycoside C10-16 | No data available | <= -0.07 |
| Lauryl dimethyl amine oxide | > 87 | < 2.7 |
| Glycerin | 0.89 estimated | -1.76 |

Mobility

| Component | End point | Value |
|---|-------------------|-------------------|
| Sulfuric acid, mono-C10-16-alkyl esters, sodium salts | No data available | |
| Alkylpolyglycoside C10-16 | log Koc | 1.7 |
| Lauryl dimethyl amine oxide | Koc | > 2113 Calculated |
| Glycerin | No data available | - |

PBT and vPvB assessment

| Component | Results |
|---|--------------------------------------|
| Sulfuric acid, mono-C10-16-alkyl esters, sodium salts | Not fulfilling PBT and vPvB criteria |
| Alkylpolyglycoside C10-16 | Not fulfilling PBT and vPvB criteria |
| Lauryl dimethyl amine oxide | Not fulfilling PBT and vPvB criteria |
| Glycerin | Not fulfilling PBT and vPvB criteria |

Other adverse effects : None known.

13. DISPOSAL CONSIDERATIONS

Consumer may discard empty container in trash, or recycle where facilities exist.

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14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

Land transport

Not classified as dangerous in the meaning of transport regulations.

Sea transport

Not classified as dangerous in the meaning of transport regulations.

Air transport

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Notification status : All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Notification status : All ingredients of this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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16. OTHER INFORMATION

HMIS Ratings

| | |
|--------------|---|
| Health | 1 |
| Flammability | 0 |
| Reactivity | 0 |

NFPA Ratings

| | |
|------------|---|
| Health | 1 |
| Fire | 0 |
| Reactivity | 0 |
| Special | - |

This information is being provided in accordance with the Occupational Safety and Health Administration (OSHA) regulation (29 CFR 1910.1200). The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

Further information

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

| | |
|-------------|---|
| Prepared by | Global Safety Assessment & Regulatory Affairs (GSARA) |
|-------------|---|