

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

MMCD Dish Soap - Mum

Version 1.2

Print Date 06/29/2021

Revision Date 11/02/2020

SDS Number 350000030151

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name : MMCD Dish Soap - Mum

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 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 |
|----------------------------------|------------|----------------|
| Sulfuric acid, mono-C10-16-alkyl | 68585-47-7 | 5.00 - 10.00 |

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| | | |
|--------------------------------------------------------|-------------|--------------|
| esters, sodium salts | | |
| Alkylpolyglycoside C10-16 | 110615-47-9 | 5.00 - 10.00 |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | 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 : colourless

Odour : floral

Odour Threshold : Test not applicable for this product type

pH : 7.4 - 7.9
at (25 C)

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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 cps |

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at 25 C

Viscosity, kinematic : Test not applicable for this product type

Oxidizing properties : Test not applicable for this product type

Volatile Organic Compounds Total VOC (wt. %)* : 0.6 % - 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 : Stable under normal conditions.

Conditions to avoid : Direct sources of heat.

Incompatible materials : None known.

Hazardous decomposition products : Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 > 5000 mg/kg

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

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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 | Oncorhynchus mykiss (rainbow trout) | 3.6 mg/l | 96 h |
| | NOEC | Pimephales promelas (fathead minnow) | 1.357 mg/l | 42 d |
| Alkylpolyglycoside C10-16 | semi-static test LC50 ISO 7346/2 | Fish | 1 - 10 mg/l | 96 h |
| | NOEC | Fish | > 1 - 10 mg/l | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | LC50 | Fish | 0.6 - 32 mg/l | 96 h |
| | flow-through test NOEC Read-across (Analogy) | Pimephales promelas (fathead minnow) | 0.42 mg/l | 302 d |

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|----------|------|-------------------------------------|----------------------|------|
| 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 | EC50 | Daphnia magna (Water flea) | 1.18 - 2.21 mg/l | 48 h |
| | EC10 | | 0.24 mg/l | 48 d |
| Alkylpolyglycoside C10-16 | static test EC50 | Daphnia magna (Water flea) | 7 mg/l | 48 h |
| | NOEC | Daphnia | > 1 - 10 mg/l | |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | EC50 | Daphnia (water flea) | 0.5 - 10.8 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 | NOEC | Scenedesmus quadricauda (Green algae) | 0.6 mg/l | 72 h |
| Alkylpolyglycoside C10-16 | static test EC50 | Desmodesmus subspicatus (green algae) | 12.5 mg/l | 72 h |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | ErC50 | Algae | 0.075 mg/l | 72 h |
| Glycerin | EC10 | Microcystis aeruginosa (blue-green algae) | 2,900 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. |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | 96 % | 19 d | |
| Glycerin | 94 % | 24 h | Readily biodegradable. |

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Bioaccumulative potential

| Component | Bioconcentration factor (BCF) | Partition Coefficient n-Octanol/water (log) |
|--------------------------------------------------------|-------------------------------|---------------------------------------------|
| Sulfuric acid, mono-C10-16-alkyl esters, sodium salts | 34.31 | 2.42 |
| Alkylpolyglycoside C10-16 | No data available | <= -0.07 |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | > 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 |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | 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 |
| Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides | Not fulfilling PBT and vPvB criteria |
| Glycerin | Not fulfilling PBT and vPvB criteria |

Other adverse effects : None known.

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13. DISPOSAL CONSIDERATIONS

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

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 is not subject to the reporting requirements under California's Proposition 65.

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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.

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