

Safety Data Sheet

according to WHMIS 1988

MMCD Dishliquid-Basil

Version 1.0

Print Date 01/27/2017

Revision Date 03/10/2016

SDS Number 350000025150

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name	:	MMCD Dishliquid-Basil
Recommended use	:	Hard Surface Cleaner
Manufacturer, importer, supplier	:	Caldrea 1 Webster Street Brantford ON N3T 5R1
Telephone	:	+18778651508
Emergency telephone number	:	24 Hour Transport & Medical Emergency Phone (866) 231-5406 24 Hour International Emergency Phone (952) 852-4647 24 Hour Canadian Transport Emergency Phone (CANUTEC) (613) 996-6666

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance / Odor : Colorless / liquid / Herbal

Immediate Concerns : Avoid contact with skin, eyes and clothing.

Potential Health Effects

Exposure routes	Eye, Skin, Inhalation, Ingestion.
Eyes	May cause: Mild eye irritation
Skin	Prolonged or repeated contact may dry skin and cause irritation.
Inhalation	No adverse effects expected when used as directed.
Ingestion	May cause irritation to mouth, throat and stomach. May cause abdominal discomfort.
Aggravated Medical Condition	Persons with pre-existing skin disorders may be more susceptible to irritating effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical Name	CAS-No.	Weight percent
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

- Eye contact** : Rinse with plenty of water. Get medical attention if irritation develops and persists.
- Skin contact** : Rinse with plenty of water. Get medical attention if irritation develops and persists.
- Inhalation** : No special requirements
- Ingestion** : Rinse mouth with water.

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** : No special precautions required.
- Environmental precautions** : Outside of normal use, avoid release to the environment.
- Methods and materials for containment and cleaning up** : Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Dike large spills. Clean residue from spill site.

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7. HANDLING AND STORAGE

Handling

Precautions for safe handling : Use only as directed.
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.
Keep in a dry, cool and well-ventilated place.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Components	CAS-No.	mg/m3	ppm	Non-standard units	Basis
Glycerin	56-81-5	10 mg/m3	-	-	CA-AB_TWAS
Glycerin	56-81-5	10 mg/m3	-	-	CA-BC_TWAS
Glycerin	56-81-5	3 mg/m3	-	-	CA-BC_TWAS
Glycerin	56-81-5	10 mg/m3	-	-	CA-NB_TWAS
Glycerin	56-81-5	20 mg/m3	-	-	CA-NT_STEL
Glycerin	56-81-5	10 mg/m3	-	-	CA-NT_TWAS
Glycerin	56-81-5	20 mg/m3	-	-	CA-NU_STEL
Glycerin	56-81-5	10 mg/m3	-	-	CA-NU_TWAS
Glycerin	56-81-5	10 mg/m3	-	-	CA-ON_TWAE
Glycerin	56-81-5	10 mg/m3	-	-	CA-QC_TWAE
Glycerin	56-81-5	10 mg/m3	-	30 mppcf	CA-YK_TWAS
Glycerin	56-81-5	20 mg/m3	-	-	CA-SK_STEL
Glycerin	56-81-5	10 mg/m3	-	-	CA-SK_TWAS

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Glycerin	56-81-5	10 mg/m3	-	-	CA-MB_TWAS
Glycerin	56-81-5	10 mg/m3	-	-	CA-NS_TWAS

Personal protective equipment

- Respiratory protection** : No personal respiratory protective equipment normally required.
- 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
- Odor** : Herbal
- Odour Threshold** : Test not applicable for this product type
- pH** : 7.90
- 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.

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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	: 500 mPa.s
Viscosity, kinematic	: Test not applicable for this product type
Oxidizing properties	: Test not applicable for this product type
Volatile Organic Compounds Total VOC (wt. %)*	: 0.8 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations
Other information	: None identified

10. STABILITY AND REACTIVITY

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.

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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.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : NA GHS LD50
Calculated
> 5,000 mg/kg

Acute inhalation toxicity : NA GHS LC50 (dust and mist)
Calculated
> 5.0 mg/l

Acute dermal toxicity : NA GHS LD50
Calculated
> 5,000 mg/kg

Chronic effects

Carcinogenicity : None Anticipated

Mutagenicity : None Anticipated

Reproductive effects : None Anticipated

Teratogenicity : None Anticipated

Sensitisation : Substances is not a sensitizer.

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-		> 10 mg/l	

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	across (Analogy)			
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 OECD Test Guideline 203	Danio rerio (zebra fish)	31.8 mg/l	96 h
	flow-through test NOEC Read-across (Analogy)	Pimephales promelas (fathead minnow)	0.42 mg/l	302 d
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	

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Lauryl dimethyl amine oxide	static test EC50 OECD Test Guideline 202	Daphnia magna (Water flea)	3.9 mg/l	48 h
	flow- through test NOEC Read- across (Analogy) OECD Guideline 211 (Daphnia magna Reproduct ion Test)	Daphnia magna (Water flea)	0.7 mg/l	21 d
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 OECD Test Guideline 201	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	Summary
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		time	
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

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.

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13. DISPOSAL CONSIDERATIONS

Observe all applicable Federal, Provincial and State regulations and Local/Municipal ordinances regarding disposal.

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 Canada's Workplace Hazard Material Information System (WHMIS). 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)
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