according to Hazard Communication Standard; 29 CFR 1910.1200

MRS. MEYER'S® CLEAN DAY LAUNDRY DETERGENT - LEMON VERBENA

Version 1.1 Print Date 05/31/2018

Revision Date 06/15/2017 SDS Number 350000025136

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name : MRS. MEYER'S® CLEAN DAY LAUNDRY DETERGENT -

LEMON VERBENA

Recommended use : Laundry

Manufacturer, importer,

supplier

: Caldrea

1525 Howe Street

Racine WI 53403-2236

Telephone : +18778651508

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

Hazard classification	Hazard category	Hazards identification
Skin sensitisation	Category 1	May cause an allergic skin
		reaction.

Labelling

Hazard symbols

Exclamation mark

Signal word

Warning

Hazard statements

May cause an allergic skin reaction.

Precautionary statements

according to Hazard Communication Standard; 29 CFR 1910.1200

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If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Specific treatment (see supplemental first aid instructions on this label).

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/ attention.

Wash contaminated clothing before reuse.

Dispose of contents/ container to an approved incineration plant.

Wear protective gloves. Avoid breathing spray.

Contaminated work clothing should not be allowed out of the workplace.

Other hazards : None identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Weight percent
Alkylpolyglycoside C10-16	110615-47-9	5.00 - 10.00
Alcohols, C12-16, ethoxylated	68551-12-2	5.00 - 10.00
Fatty acids, C12-18, Methyl esters, sulfonated, sodium salts	149458-07-1	1.00 - 5.00
FATTY ACID, C8-18 and C18 UNSATURATED	67701-05-7	1.00 - 5.00
Fragrance - Trade Secret	Mixture	1.00 - 5.00
Subtilisins (proteolytic enzymes)	9014-01-1	0.0001 - 0.10

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 : No special requirements

Skin contact: Wash off with plenty of water. If skin irritation or rash occurs:

Get medical advice/ attention.

Inhalation : No special requirements.

Ingestion : No special requirements

according to Hazard Communication Standard; 29 CFR 1910.1200

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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 : Wear personal protective equipment.

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.

Use only as directed.

KEEP OUT OF REACH OF CHILDREN AND PETS.

Contaminated work clothing should not be allowed out of the

workplace.

Avoid breathing vapours, mist or gas.

according to Hazard Communication Standard; 29 CFR 1910.1200

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Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

areas and containers

Requirements for storage : Keep container closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

ACGIH or OSHA exposure limits have not been established for this product or reportable ingredients unless noted in the table above.

Personal protective equipment

Respiratory protection : No special requirements.

Hand protection Wear suitable gloves.

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 Citrus

Odour Threshold : Test not applicable for this product type

: 6.75 - 7.25 рΗ

according to Hazard Communication Standard; 29 CFR 1910.1200

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at (25 C)

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.

explosive limits

Upper/lower flammability or : 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 : 1.045 g/cm3 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

according to Hazard Communication Standard; 29 CFR 1910.1200

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Viscosity, dynamic : 150 - 300 cps

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. %)*

: 0.3 % - 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

Emergency Overview : Warning

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	Category 1	-
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

: None known.

Condition

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
Alkylpolyglycoside C10-16	semi- static test LC50 ISO 7346/2	Fish	1 - 10 mg/l	
	NOEC	Fish	> 1 - 10 mg/l	
Alcohols, C12-16, ethoxylated	LC50	Danio rerio (zebra fish)	1 - 10 mg/l	96 h
Fatty acids, C12-18, Methyl esters, sulfonated, sodium salts	LC50		4.7 mg/l	96 h
	NOEC		0.25 mg/l	21 d
FATTY ACID, C8-18 and C18 UNSATURATED	LC50 Read-	Fish	5 mg/l	96 h

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	across (Analogy) OECD Test Guideline 203			
Fragrance - Trade Secret	No data available			
Subtilisins (proteolytic enzymes)	LC50 Measured OECD Test Guideline 203	Oncorhynchus mykiss (rainbow trout)	8.2 mg/l	96 h
	flow- through test NOEC OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test)	Pimephales promelas (fathead minnow)	0.042 mg/l	
Alcohols, C12-16, ethoxylated	LC50	Danio rerio (zebra fish)	1 - 10 mg/l	96 h
Alkylpolyglycoside C10-16	semi- static test LC50 ISO 7346/2	Fish	1 - 10 mg/l	

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	NOEC	Fish	> 1 - 10 mg/l	
Fatty acids, C12-18, Methyl esters, sulfonated, sodium salts	LC50		4.7 mg/l	96 h
	NOEC		0.25 mg/l	21 d
FATTY ACID, C8-18 and C18 UNSATURATED	LC50 Read- across (Analogy) OECD Test Guideline 203	Fish	5 mg/l	96 h
DIPENTENE	LC50 Measured	Leuciscus idus (Golden orfe)	34 mg/l	96 h
Geraniol	static test LC50	Danio rerio (zebra fish)	22 mg/l	96 h
Subtilisins (proteolytic enzymes)	LC50 Measured OECD Test Guideline 203	Oncorhynchus mykiss (rainbow trout)	8.2 mg/l	96 h
	flow- through test NOEC OECD Guideline 210 (Fish, Early-Life	Pimephales promelas (fathead minnow)	0.042 mg/l	

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	Stage Toxicity Test)		
Citronella oil	No data available		

Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Alkylpolyglycoside C10-16	static test EC50	Daphnia magna (Water flea)	7 mg/l	48 h
	NOEC	Daphnia	> 1 - 10 mg/l	
Alcohols, C12-16, ethoxylated				
Fatty acids, C12-18, Methyl esters, sulfonated, sodium salts	EC50 No data available		6.25 mg/l	48 h
FATTY ACID, C8-18 and C18 UNSATURATED	EC50 Read- across (Analogy) OECD Test Guideline 202	Daphnia magna (Water flea)	3.6 mg/l	48 h
Fragrance - Trade Secret	No data available			
Subtilisins (proteolytic enzymes)	semi- static	Daphnia magna (Water flea)	0.170 mg/l	48 h

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	EC50 Measured OECD Test Guideline 202			
	flow- through test NOEC Measured OECD Guideline 211 (Daphnia magna Reproduct ion Test)	Daphnia magna	0.324 mg/l	21 d
Alcohols, C12-16, ethoxylated				
Alkylpolyglycoside C10-16	static test EC50	Daphnia magna (Water flea)	7 mg/l	48 h
	NOEC	Daphnia	> 1 - 10 mg/l	
Fatty acids, C12-18, Methyl esters, sulfonated, sodium salts	EC50 No data available		6.25 mg/l	48 h
FATTY ACID, C8-18 and C18 UNSATURATED	EC50 Read- across (Analogy) OECD Test Guideline 202	Daphnia magna (Water flea)	3.6 mg/l	48 h

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DIPENTENE	LC50 Calculate d No data available	Daphnia magna (Water flea)	31 mg/l	
Geraniol	semi- static test EC50	Daphnia magna (Water flea)	7.75 mg/l	48 h
Subtilisins (proteolytic enzymes)	semi- static EC50 Measured OECD Test Guideline 202	Daphnia magna (Water flea)	0.170 mg/l	48 h
	flow- through test NOEC Measured OECD Guideline 211 (Daphnia magna Reproduct ion Test)	Daphnia magna	0.324 mg/l	21 d
Citronella oil	No data available			

Toxicity to aquatic plants

Componer	its	End poin	t S	Species	Value	Ex	posure	
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				time
Alkylpolyglycoside C10-16	static test EC50	Desmodesmus subspicatus (green algae)	12.5 mg/l	72 h
Alcohols, C12-16, ethoxylated				
Fatty acids, C12-18, Methyl esters, sulfonated, sodium salts	EC50 No data available		0.71 mg/l	72 h
FATTY ACID, C8-18 and C18 UNSATURATED	static test EC50 Measured OECD Test Guideline 201	Pseudokirchneriella subcapitata (green algae)	0.9 mg/l	72 h
Fragrance - Trade Secret	No data available			
Subtilisins (proteolytic enzymes)	ErC50 Measured OECD Test Guideline 201 NOEC Measured OECD Test Guideline 201	Pseudokirchneriella subcapitata (green algae) Pseudokirchneriella subcapitata (green algae)	0.83 mg/l 0.317 mg/l	72 h 72 h
Alcohols, C12-16, ethoxylated				
Alkylpolyglycoside C10-16	static test EC50	Desmodesmus subspicatus (green algae)	12.5 mg/l	72 h
Fatty acids, C12-18, Methyl esters, sulfonated, sodium salts	EC50 No data available		0.71 mg/l	72 h
FATTY ACID, C8-18 and C18 UNSATURATED	static test EC50 Measured OECD Test Guideline	Pseudokirchneriella subcapitata (green algae)	0.9 mg/l	72 h

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	201			
DIPENTENE	IC50	Scenedesmus capricornutum (fresh water algae)	13.8 mg/l	96 h
Geraniol	static test ErC50	Scenedesmus capricornutum (fresh water algae)	5.36 mg/l	72 h
Subtilisins (proteolytic enzymes)	ErC50 Measured OECD Test Guideline 201 NOEC Measured OECD Test Guideline 201	Pseudokirchneriella subcapitata (green algae) Pseudokirchneriella subcapitata (green algae)	0.83 mg/l 0.317 mg/l	72 h 72 h
Citronella oil	No data available			

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Alkylpolyglycoside C10-16	> 70 %	28 d	Readily biodegradable.
Alcohols, C12-16, ethoxylated	87 %	28 d	Readily biodegradable.
Fatty acids, C12-18, Methyl esters, sulfonated, sodium salts	No data available		Readily biodegradable.
FATTY ACID, C8-18 and C18 UNSATURATED	No data available		Readily biodegradable.
Fragrance - Trade Secret	No data available		
Subtilisins (proteolytic enzymes)	100 %	29 d	Readily biodegradable.
Alcohols, C12-16, ethoxylated	87 %	28 d	Readily biodegradable.
Alkylpolyglycoside C10-16	> 70 %	28 d	Readily biodegradable.

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Fatty acids, C12-18, Methyl esters, sulfonated, sodium salts	No data available		Readily biodegradable.
FATTY ACID, C8-18 and C18 UNSATURATED	No data available		Readily biodegradable.
DIPENTENE	No data available		
Geraniol	82 %	28 d	Readily biodegradable.
Subtilisins (proteolytic enzymes)	100 %	29 d	Readily biodegradable.
Citronella oil	No data available		

Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n- Octanol/water (log)
Alkylpolyglycoside C10-16	No data available	<= -0.07
Alcohols, C12-16, ethoxylated	1,152 1,152	5.96 5.96
Fatty acids, C12-18, Methyl esters, sulfonated, sodium salts	No data available	No data available
FATTY ACID, C8-18 and C18 UNSATURATED	No data available	3.33
Fragrance - Trade Secret	No data available	No data available
Subtilisins (proteolytic enzymes)	No data available	-3.1 Measured
Alcohols, C12-16, ethoxylated	1,152 1,152	5.96 5.96
Alkylpolyglycoside C10-16	No data available	<= -0.07
Fatty acids, C12-18, Methyl esters, sulfonated, sodium salts	No data available	No data available
FATTY ACID, C8-18 and C18 UNSATURATED	No data available	3.33
DIPENTENE	No data available	4.83
Geraniol	No data available	2.6
Subtilisins (proteolytic enzymes)	No data available	-3.1 Measured
Citronella oil	No data available	No data available

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Mobility

Component	End point	Value
Alkylpolyglycoside C10-16	log Koc	1.7
Alcohols, C12-16, ethoxylated	No data available	
Fatty acids, C12-18, Methyl esters, sulfonated, sodium salts	No data available	
FATTY ACID, C8-18 and C18 UNSATURATED	No data available	
Fragrance - Trade Secret	No data available	
Subtilisins (proteolytic enzymes)	No data available	
Alcohols, C12-16, ethoxylated	No data available	
Alkylpolyglycoside C10-16	log Koc	1.7
Fatty acids, C12-18, Methyl esters, sulfonated, sodium salts	No data available	
FATTY ACID, C8-18 and C18 UNSATURATED	No data available	
DIPENTENE	No data available	
Geraniol	Koc	70.79
Subtilisins (proteolytic enzymes)	No data available	
Citronella oil	No data available	-

PBT and vPvB assessment

Component	Results
Alkylpolyglycoside C10-16	Not fulfilling PBT and vPvB criteria
Alcohols, C12-16, ethoxylated	Not fulfilling PBT and vPvB criteria
Fatty acids, C12-18, Methyl esters, sulfonated, sodium salts	Not fulfilling PBT and vPvB criteria

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FATTY ACID, C8-18 and C18 UNSATURATED	Not fulfilling PBT and vPvB criteria
Fragrance - Trade Secret	Not fulfilling PBT and vPvB criteria
Subtilisins (proteolytic enzymes)	Not fulfilling PBT and vPvB criteria
Alcohols, C12-16, ethoxylated	Not fulfilling PBT and vPvB criteria
Alkylpolyglycoside C10-16	Not fulfilling PBT and vPvB criteria
Fatty acids, C12-18, Methyl esters, sulfonated, sodium salts	Not fulfilling PBT and vPvB criteria
FATTY ACID, C8-18 and C18 UNSATURATED	Not fulfilling PBT and vPvB criteria
DIPENTENE	Not fulfilling PBT and vPvB criteria
Geraniol	Not fulfilling PBT and vPvB criteria
Subtilisins (proteolytic enzymes)	Not fulfilling PBT and vPvB criteria
Citronella oil	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.

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

according to Hazard Communication Standard; 29 CFR 1910.1200

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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.

16. OTHER INFORMATION

HMIS Ratings

_ rume rumge	
Health	1
Flammability	0
Reactivity	0

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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)
