

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

MMCD Autodish Packs-Lemon Verbena

Version 1.0

Print Date 12/07/2015

Revision Date 06/10/2015

SDS Number 350000025394

1. PRODUCT AND COMPANY IDENTIFICATION**Product information****Product name** : MMCD Autodish Packs-Lemon Verbena**Recommended use** : Hard Surface Cleaner**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
Acute toxicity	Category 4	Harmful if swallowed.
Acute toxicity	Category 4	Harmful if inhaled.
Skin corrosion	Category 2	Causes skin irritation.
Eye irritation	Category 2A	Causes serious eye irritation.
Respiratory sensitisation	Category 1	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Labelling**Hazard symbols**Exclamation mark
Health hazard**Signal word**

Danger

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

MMCD Autodish Packs-Lemon Verbena

Version 1.0

Print Date 12/07/2015

Revision Date 06/10/2015

SDS Number 350000025394

Hazard statements

Harmful if swallowed or if inhaled

Causes skin irritation.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements

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

Keep out of reach of children.

Read label before use.

Call a POISON CENTER or doctor/ physician if you feel unwell.

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

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

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

If skin irritation occurs: Get medical advice/ attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Rinse mouth.

Take off contaminated clothing and wash before reuse.

Dispose of contents/ container to an approved incineration plant.

Wear protective gloves/ eye protection/ face protection.

In case of inadequate ventilation wear respiratory protection.

Avoid breathing spray.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Other hazards : None identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight percent
Sodium sulfate	7757-82-6	30.00 - 60.00
Sodium carbonate	497-19-8	10.00 - 30.00
Sodium silicate	1344-09-8	10.00 - 30.00
Sodium percarbonate peroxyhydrate	15630-89-4	5.00 - 10.00
Silicon dioxide	112926-00-8	1.00 - 5.00
Subtilisins (proteolytic enzymes)	9014-01-1	0.10 - 1.00

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

MMCD Autodish Packs-Lemon Verbena

Version 1.0

Print Date 12/07/2015

Revision Date 06/10/2015

SDS Number 350000025394

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** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.
- Skin contact** : Wash off with plenty of water. Take off contaminated clothing and wash before reuse.
- Inhalation** : IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician. Call a POISON CENTER or doctor/physician if you feel unwell.
- Ingestion** : IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 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.

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

MMCD Autodish Packs-Lemon Verbena

Version 1.0

Print Date 12/07/2015

Revision Date 06/10/2015

SDS Number 350000025394

Environmental precautions : Outside of normal use, avoid release to the environment.

Methods and materials for containment and cleaning up : Sweep up and shovel into suitable containers for disposal.
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.
Avoid breathing vapours, mist or gas.
In case of insufficient ventilation, wear suitable respiratory equipment.
Use only outdoors or in a well-ventilated area.
Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Components	CAS-No.	mg/m ³	ppm	Non-standard units	Basis
Sodium carbonate	497-19-8	10 mg/m ³	-	-	SUPPLIER
Sodium percarbonate peroxyhydrate	15630-89-4	5 mg/m ³	-	-	SUPPLIER

Personal protective equipment

Respiratory protection : Use only with adequate ventilation.
Substantial amounts of mist/vapors can be controlled with local exhaust ventilation or respiratory protection.

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

MMCD Autodish Packs-Lemon Verbena

Version 1.0

Print Date 12/07/2015

Revision Date 06/10/2015

SDS Number 350000025394

- Hand protection** : Wear suitable gloves.
- Eye protection** : Safety glasses with side-shields
- Skin and body protection** : No special requirements.
- Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Smoking, eating and drinking should be prohibited in the application area.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form** : solid
- Color** : white
- Odor** : Citrus
- Odour Threshold** : Test not applicable for this product type
- pH** : Test not applicable for this product type
- Melting point/freezing point** : Test not applicable for this product type
- 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

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

MMCD Autodish Packs-Lemon Verbena

Version 1.0

Print Date 12/07/2015

Revision Date 06/10/2015

SDS Number 350000025394

Vapour pressure	:	Test not applicable for this product type
Vapour density	:	Test not applicable for this product type
Relative density	:	Test not applicable for this product type
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	:	Test not applicable for this product type
Viscosity, kinematic	:	Test not applicable for this product type
Oxidizing properties	:	Test not applicable for this product type
Volatile Organic Compounds Total VOC (wt. %)*	:	1.1 % - 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 : Stable under recommended storage conditions.

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

MMCD Autodish Packs-Lemon Verbena

Version 1.0

Print Date 12/07/2015

Revision Date 06/10/2015

SDS Number 350000025394

reactions

Conditions to avoid : Direct sources of heat.

Incompatible materials : None known.

Hazardous decomposition products : Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

Emergency Overview : Danger

Acute oral toxicity : No data available

Acute inhalation toxicity : No data available

Acute dermal toxicity : No data available

GHS Properties	Classification	Routes of entry
Acute toxicity	Category 4	Oral
Acute toxicity	No classification proposed	Dermal
Acute toxicity	Category 4	Inhalation - Dust and Mist
Acute toxicity	No classification proposed	Inhalation - Vapour
Acute toxicity	No classification proposed	Inhalation - Gas
Skin corrosion	Category 2	-
Eye irritation	Category 2A	-
Skin sensitisation	No classification proposed	-
Respiratory sensitisation	Category 1	-
Germ cell mutagenicity	No classification proposed	-

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

MMCD Autodish Packs-Lemon Verbena

Version 1.0

Print Date 12/07/2015

Revision Date 06/10/2015

SDS Number 350000025394

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	-

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
Sodium sulfate	static test LC50	Lepomis macrochirus	3,040 - 4,380 mg/l	96 h
Sodium carbonate	static test LC50	Lepomis macrochirus	300 mg/l	96 h
Sodium silicate	LC50	Oncorhynchus mykiss (rainbow trout)	260 - 310 mg/l	96 h

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

MMCD Autodish Packs-Lemon Verbena

Version 1.0

Print Date 12/07/2015

Revision Date 06/10/2015

SDS Number 350000025394

Sodium percarbonate peroxyhydrate	static test LC50	Pimephales promelas (fathead minnow)	70.7 mg/l	96 h
Silicon dioxide	No data available			
Subtilisins (proteolytic enzymes)	LC50 OECD Test Guideline 203		8.2 mg/l	96 h

Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Sodium sulfate	EC50	Daphnia magna (Water flea)	650 mg/l	96 h
Sodium carbonate	semi-static test EC50	Ceriodaphnia sp.	200 - 227 mg/l	248 h
Sodium silicate	static test EC50	Daphnia magna (Water flea)	1,700 mg/l	48 h
Sodium percarbonate peroxyhydrate	EC50	daphnia pulex	4.9 mg/l	48 h
Silicon dioxide	No data available			

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

MMCD Autodish Packs-Lemon Verbena

Version 1.0

Print Date 12/07/2015

Revision Date 06/10/2015

SDS Number 350000025394

Subtilisins (proteolytic enzymes)	EC50 OECD Test Guideline 202	Daphnia magna (Water flea)	0.586 mg/l	48 h
-----------------------------------	--	----------------------------	------------	------

Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Sodium sulfate	No data available			
Sodium carbonate	No data available			
Sodium silicate	EC50	Desmodemus subspicatus (green algae)	> 345.4 mg/l	72 h
Sodium percarbonate peroxyhydrate	No data available			
Silicon dioxide	No data available			
Subtilisins (proteolytic enzymes)	ErC50 OECD Test Guideline 201No data available		0.83 mg/l	72 h

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Sodium sulfate	No data available		
Sodium carbonate	No data available		
Sodium silicate	No data available		
Sodium percarbonate peroxyhydrate	No data available		
Silicon dioxide	No data available		
Subtilisins (proteolytic	No data available		Readily biodegradable

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

MMCD Autodish Packs-Lemon Verbena

Version 1.0

Print Date 12/07/2015

Revision Date 06/10/2015

SDS Number 350000025394

enzymes)			
----------	--	--	--

Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Sodium sulfate	No data available	No data available
Sodium carbonate	No data available	No data available
Sodium silicate	No data available	No data available
Sodium percarbonate peroxyhydrate	No data available	No data available
Silicon dioxide	No data available	No data available
Subtilisins (proteolytic enzymes)	No data available	No data available

Mobility

Component	End point	Value
Sodium sulfate	No data available	
Sodium carbonate	No data available	
Sodium silicate	No data available	
Sodium percarbonate peroxyhydrate	No data available	
Silicon dioxide	No data available	
Subtilisins (proteolytic enzymes)	No data available	

PBT and vPvB assessment

Component	Results
Sodium sulfate	Not fulfilling PBT and vPvB criteria
Sodium carbonate	Not fulfilling PBT and vPvB criteria
Sodium silicate	Not fulfilling PBT and vPvB criteria
Sodium percarbonate	Not fulfilling PBT and vPvB criteria

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

MMCD Autodish Packs-Lemon Verbena

Version 1.0

Print Date 12/07/2015

Revision Date 06/10/2015

SDS Number 350000025394

peroxyhydrate	
---------------	--

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

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.

California Prop. 65 : This product is not subject to the reporting requirements under California's Proposition 65.

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200

MMCD Autodish Packs-Lemon Verbena

Version 1.0

Print Date 12/07/2015

Revision Date 06/10/2015

SDS Number 350000025394

16. OTHER INFORMATION

HMIS Ratings

Health	2
Flammability	0
Reactivity	1

NFPA Ratings

Health	2
Fire	0
Reactivity	1
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)
-------------	---