

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name	:	MMCD Laundry Dtrgnt Pacs Hnysuckle Bulk
Recommended use	:	Laundry
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
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Emergency telephone number	:	24 Hour Medical Emergency Phone: (866)231-5406 24 Hour Transport Emergency Phone: (800)424-9300
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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Globally Harmonized System (GHS) Classification

Hazard classification	Hazard category	Hazards identification
Skin irritation	Category 2	Causes skin irritation.
Serious eye damage	Category 1	Causes serious eye damage.

Labelling

Hazard symbols

Corrosion

Signal word

Danger

Hazard statements

Causes skin irritation.

Causes serious eye damage.

Precautionary statements

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

Keep out of reach of children.
Read label before use.

Immediately call a POISON CENTER/doctor.
Specific treatment (see supplemental first aid instructions on this label).
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Take off contaminated clothing and wash before reuse.

Wear protective gloves/ eye protection/ face protection.
Wash hands thoroughly after handling.

Other hazards	:	None identified
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Weight percent
Sodium carbonate	497-19-8	30.00 - 60.00
Alcohols, C12-16, ethoxylated	68551-12-2	5.00 - 10.00
Sodium percarbonate peroxyhydrate	15630-89-4	5.00 - 10.00
Alkylpolyglycoside C10-16	110615-47-9	1.00 - 5.00
Titanium Dioxide	13463-67-7	0.10 - 1.00
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

Description of 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. Immediately call a POISON CENTER/doctor.
Skin contact	:	Wash off with plenty of water. Take off contaminated clothing and wash before reuse.
Inhalation	:	No special requirements.
Ingestion	:	No special requirements

Most important symptoms and effects, both acute and delayed

Eyes	:	Causes serious eye damage.
Skin effect	:	Causes skin irritation. No adverse effects expected when used as directed.
Inhalation	:	No adverse effects expected when used as directed.
Ingestion	:	May cause irritation to mouth, throat and stomach. May cause abdominal discomfort. 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.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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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.
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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	:	Sweep up and shovel into suitable containers for disposal. Clean residue from spill site.
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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. Wash thoroughly after handling.
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.

Storage

Other data	:	Keep in a dry place.
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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
Titanium Dioxide	13463-67-7	15 mg/m ³	-	-	OSHA TWA
Titanium Dioxide	13463-67-7	10 mg/m ³	-	-	ACGIH TWA

Personal protective equipment

Respiratory protection	:	Substantial amounts of mist/vapors can be controlled with local exhaust ventilation or respiratory protection.
Hand protection	:	Wear suitable gloves.
Eye protection	:	Wear splash-resistant Chemical goggles.
Skin and body protection	:	No special requirements.

Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	granular
Color	:	white
Odour	:	floral

Odour Threshold	:	Test not applicable for this product type
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pH	:	Test not applicable for this product type
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Melting point/freezing point	:	Test not applicable for this product type
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Initial boiling point and boiling range	:	Test not applicable for this product type
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Flash point	:	does not flash
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Evaporation rate	:	Test not applicable for this product type
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Flammability (solid, gas)	:	Does not sustain combustion.
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Upper/lower flammability or explosive limits	:	Test not applicable for this product type
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Vapour pressure	:	Test not applicable for this product type
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Vapour density	:	Test not applicable for this product type
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Relative density	:	Test not applicable for this product type
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Solubility(ies)	:	soluble
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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. %)*	:	0.8 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations>
Other information	:	None identified : Test not applicable for this product type

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 recommended storage conditions.
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

Acute oral toxicity	:	LD50 3777 mg/kg
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Acute inhalation toxicity	:	LC50 > 10 mg/L
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Acute dermal toxicity	:	LD50 2120 mg/kg
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GHS Properties	Classification	Routes of entry
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Acute toxicity	No classification proposed	Oral
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Acute toxicity	No classification proposed	Dermal
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Acute toxicity	No classification proposed	Inhalation - Dust and Mist
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Acute toxicity	No classification proposed	Inhalation - Vapour
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Acute toxicity	No classification proposed	Inhalation - Gas
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Skin irritation	Category 2	-
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Serious eye damage	Category 1	-
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Skin sensitisation	No classification proposed	-
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Respiratory sensitisation	No classification proposed	-
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Germ cell mutagenicity	No classification proposed	-
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Carcinogenicity	No classification proposed	-
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Reproductive toxicity	No classification proposed	-
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Specific target organ toxicity - single exposure	No classification proposed	-
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Specific target organ toxicity - repeated exposure	No classification proposed	-
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Aspiration hazard	No classification proposed	-
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Aggravated Medical Condition	:	Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc. may be more susceptible to irritating effects
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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 carbonate	static test LC50	Lepomis macrochirus	300 mg/l	96 h
Alcohols, C12-16, ethoxylated	LC50	Danio rerio (zebra fish)	1 - 10 mg/l	96 h
	NOEC	Fish	0.16 - 0.88 mg/l	21 d
Sodium percarbonate peroxyhydrate	semi-static test LC50 Measured	Pimephales promelas (fathead minnow)	70.7 mg/l	96 h

Alkylpolyglycoside C10-16	semi-static test LC50 ISO 7346/2	Fish	1 - 10 mg/l	96 h
	NOEC	Fish	> 1 - 10 mg/l	

Titanium Dioxide	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	

Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
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Sodium carbonate	semi-static test EC50	Ceriodaphnia sp.	200 - 227 mg/l	48 h

Alcohols, C12-16, ethoxylated	EC50	Daphnia (water flea)	0.63 - 2.7 mg/l	48 h
	NOEC	Daphnia	0.2 - 0.92 mg/l	21 d

Sodium percarbonate peroxyhydrate	semi-static test EC50 Measured	daphnia pulex	4.9 mg/l	48 h

Alkylpolyglycoside C10-16	static test EC50	Daphnia magna (Water flea)	7 mg/l	48 h
	NOEC	Daphnia	> 1 - 10 mg/l	

Titanium Dioxide	EC50	Daphnia magna (Water flea)	> 500 mg/l	48 h
	NOEC	Daphnia magna	> 2.92 mg/l	21 d

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 Reproduction Test)	Daphnia magna	0.324 mg/l	21 d

Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Sodium carbonate	No data available			

Alcohols, C12-16, ethoxylated	ErC50	Algae	1.6 - 100 mg/l	72 h
Sodium percarbonate peroxyhydrate	NOEC No data available	Algae	0.3 mg/l	
Alkylpolyglycoside C10-16	static test EC50	Desmodesmus subspicatus (green algae)	12.5 mg/l	72 h
Titanium Dioxide	static test EC50	Pseudokirchneriella subcapitata	61 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

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Sodium carbonate	No data available		
Alcohols, C12-16, ethoxylated	87 %	28 d	Readily biodegradable.
Sodium percarbonate peroxyhydrate	No data available		
Alkylpolyglycoside C10-16	> 70 %	28 d	Readily biodegradable.
Titanium Dioxide	No data available		

Subtilisins (proteolytic enzymes)	100 %	29 d	Readily biodegradable.
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Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
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Sodium carbonate	No data available	No data available
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Alcohols, C12-16, ethoxylated	1,152 1,152	5.96 5.96
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Sodium percarbonate peroxyhydrate	No data available	No data available
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Alkylpolyglycoside C10-16	No data available	<= -0.07
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Titanium Dioxide	No data available	No data available
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Subtilisins (proteolytic enzymes)	No data available	-3.1 Measured
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Mobility

Component	End point	Value
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Sodium carbonate	No data available	
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Alcohols, C12-16, ethoxylated	No data available	
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Sodium percarbonate peroxyhydrate	No data available	
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Alkylpolyglycoside C10-16	log Koc	1.7
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Titanium Dioxide	No data available	
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Subtilisins (proteolytic enzymes)	No data available	
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PBT and vPvB assessment

Component	Results
Sodium carbonate	Not fulfilling PBT and vPvB criteria
Alcohols, C12-16, ethoxylated	Not fulfilling PBT and vPvB criteria
Sodium percarbonate peroxyhydrate	Not fulfilling PBT and vPvB criteria
Alkylpolyglycoside C10-16	Not fulfilling PBT and vPvB criteria
Titanium Dioxide	Not fulfilling PBT and vPvB criteria
Subtilisins (proteolytic enzymes)	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.
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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

Health	3
Flammability	0
Reactivity	0

NFPA Ratings

Health	3
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)
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