

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : Dishwasher Packettes

1.2. Recommended use and restrictions on use

Recommended use : Consumer use,Cleaning agent

1.3. Supplier

Method Products, pbc
 637 Commercial Street
 Suite 300
 San Francisco, CA 94111 - USA
 T 8669638463

1.4. Emergency telephone number

Emergency number : CHEMTREC - 1-800-424-9300
 (U.S./ Canada) or 1-703-527-3887

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Sodium Carbonate	(CAS-No.) 497-19-8	30 - 60
Sodium Sulfate	(CAS-No.) 7757-82-6	10 - 30
Sodium Carbonate Peroxyhydrate (2:3), slightly oxidizing	(CAS-No.) 15630-89-4	10 - 30
Sodium Silicate	(CAS-No.) 1344-09-8	1 - 5
Subtilisin	(CAS-No.) 9014-01-1	0.1 - 1

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : If symptoms persist, call a physician.
 First-aid measures after inhalation : Remove to fresh air.
 First-aid measures after skin contact : Wash immediately with lots of water.
 First-aid measures after eye contact : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth out with water. Drink plenty of water. Get immediate medical advice/attention.

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4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Specific hazards arising from the chemical

Fire hazard : None.

Reactivity : None.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Other information : Recycle product or dispose safely.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with eyes. Keep container closed when not in use.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of reach of children. Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sodium Carbonate (497-19-8)	
Supplier	10 mg/m3
Sodium Sulfate (7757-82-6)	
Not applicable	
Sodium Carbonate Peroxyhydrate (2:3), slightly oxidizing (15630-89-4)	
Supplier	5 mg/m3
Sodium Silicate (1344-09-8)	
Not applicable	
Subtilisin (9014-01-1)	
Not applicable	

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

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8.3. Individual protection measures/Personal protective equipment

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Solid.
Color	: Off-white
Odor	: pleasant
Odor threshold	: No data available
pH	: 10.7 - 11.3
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None known based on information supplied.

10.4. Conditions to avoid

None known based on information supplied.

10.5. Incompatible materials

None known based on information supplied.

10.6. Hazardous decomposition products

None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Sodium Carbonate (497-19-8)

LD50 oral rat	2800 mg/kg (Rat; Experimental value)
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Sodium Carbonate (497-19-8)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Experimental value)
LC50 inhalation rat (mg/l)	2.3 mg/l (Exposure time: 2 h)
Sodium Sulfate (7757-82-6)	
LD50 oral rat	> 5,000 mg/kg
LD50 dermal rat	> 4 mg/kg body weight
LC50 inhalation rat (mg/l)	> 2.4 mg/l (dust & mist)
Sodium Carbonate Peroxyhydrate (2:3), slightly oxidizing (15630-89-4)	
LD50 oral rat	1034 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
ATE US (oral)	1034 mg/kg body weight
Sodium Silicate (1344-09-8)	
LD50 oral rat	3,400 mg/kg
LD50 dermal rat	> 5,000 mg/kg
LC50 inhalation rat (mg/l)	> 2.06 mg/l (vapor)
Subtilisin (9014-01-1)	
LD50 oral rat	3700 mg/kg (Rat)
ATE US (oral)	3700 mg/kg body weight

Skin corrosion/irritation : Not classified
pH: 10.7 - 11.3

Serious eye damage/irritation : Not classified.
pH: 10.7 - 11.3

Respiratory or skin sensitization : Not classified.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Sodium Carbonate (497-19-8)	
LC50 fish 1	300 mg/l (LC50; Other; 96 h; Lepomis macrochirus; Static system; Fresh water; Experimental value)
EC50 Daphnia 1	265 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	310 - 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
Threshold limit algae 1	242 mg/l (EC50; 5 days; Algae)
Sodium Sulfate (7757-82-6)	
LC50 fish 1	300 mg/l (LC50; Equivalent or similar to OECD 203; 96 h; Brachydanio rerio; Semi-static system; Fresh water; Experimental value)
EC50 Daphnia 1	650 mg/l (Exposure time: 96 h - Species: Daphnia magna)
Threshold limit algae 1	No data available
Sodium Carbonate Peroxyhydrate (2:3), slightly oxidizing (15630-89-4)	
LC50 fish 1	> 70.7 mg/l (LC50; semi static test: Fish, Acute Toxicity Test; 96 h; Pimephales promelas (fathead minnow))
EC50 Daphnia 1	4.9 mg/l (EC 50: semi static test Exposure time: 48 h - Species: Daphnia pulex)
Threshold limit algae 1	0.3 mg/l (NOECD : Algae)

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Sodium Silicate (1344-09-8)	
LC50 fish 1	> 260 - 310 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio)
EC50 Daphnia 1	1700 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Threshold limit algae 1	> 345.4 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Desmodesmus subspicatus (green algae))
Subtilisin (9014-01-1)	
LC50 fish 1	8.2 mg/l (LC50) (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Oncorhynchus mykiss (rainbow trout))
EC50 Daphnia 1	0.170 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Threshold limit algae 1	0.317 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata (green algae))

12.2. Persistence and degradability

Sodium Carbonate (497-19-8)	
Persistence and degradability	Biodegradability: not applicable. Low potential for adsorption in soil.
ThOD	Not applicable (inorganic)
Sodium Sulfate (7757-82-6)	
Persistence and degradability	Biodegradability: not applicable. No (test) data on mobility of the substance available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
Sodium Carbonate Peroxyhydrate (2:3), slightly oxidizing (15630-89-4)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
Sodium Silicate (1344-09-8)	
Persistence and degradability	Biodegradability: not applicable. Hydrolysis in water.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
Subtilisin (9014-01-1)	
Persistence and degradability	100%; 29 d

12.3. Bioaccumulative potential

Sodium Carbonate (497-19-8)	
BCF fish 1	(no bioaccumulation)
Log Pow	-6.19 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Sodium Sulfate (7757-82-6)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Log Pow	-4.38 (Estimated value)
Sodium Carbonate Peroxyhydrate (2:3), slightly oxidizing (15630-89-4)	
Bioaccumulative potential	No bioaccumulation data available.
Sodium Silicate (1344-09-8)	
Bioaccumulative potential	No bioaccumulation data available.
Subtilisin (9014-01-1)	
Log Pow	-3.1 (Measured value)
Bioaccumulative potential	No bioaccumulation data available.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on the global warming : No known effects from this product.
 GWPmix comment : No known effects from this product.

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SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Must follow special treatment according to local regulation. Recover or recycle if possible.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

Sodium Carbonate (497-19-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Sodium Sulfate (7757-82-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Sodium Carbonate Peroxyhydrate (2:3), slightly oxidizing (15630-89-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Sodium Silicate (1344-09-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subtilisin (9014-01-1)
Exempt from the United States TSCA (Toxic Substances Control Act) inventory

National regulations

Dishwasher Packettes
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372 This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42) This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

15.2. International regulations

CANADA

Sodium Carbonate (497-19-8)
Listed on the Canadian DSL (Domestic Substances List)
Sodium Sulfate (7757-82-6)
Listed on the Canadian DSL (Domestic Substances List)
Sodium Carbonate Peroxyhydrate (2:3), slightly oxidizing (15630-89-4)
Listed on the Canadian DSL (Domestic Substances List)
Sodium Silicate (1344-09-8)
Listed on the Canadian DSL (Domestic Substances List)
Subtilisin (9014-01-1)
Exempt from the Canadian DSL (Domestic Substances List)

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15.3. US State regulations

No additional information available

SECTION 16: Other information

Full text of H-phrases:

	Not applicable
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Indication of changes:

Section	Changed item	Change	Comments
		First issue	

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product