

### SECTION 1: Identification

#### 1.1. Identification

Product name : Dish Washer Automatic Powder Concentrate

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Cleaning

#### 1.3. Details of the supplier of the safety data sheet

Shaklee Corporation  
Pleasanton, CA 94588  
T 925-924-2000

#### 1.4. Emergency telephone number

Emergency number : 925-931-4189

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Skin Irrit. 2 H315  
Eye Dam. 1 H318

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

#### 2.2. Label elements

##### GHS US labeling

Hazard pictograms (GHS US) :



GHS05

Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H315 - Causes skin irritation  
H318 - Causes serious eye damage

Precautionary statements (GHS US) :

P264 - Wash hands, forearms and face thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 - If on skin: Wash with plenty of water.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a poison center or doctor.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.

#### 2.3. Other hazards

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

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Name	Product identifier	%	GHS US classification
Sodium sulfate	(CAS-No.) 7757-82-6	60 – 65	Not classified
Disodium carbonate	(CAS-No.) 497-19-8	10 – 15	Not classified
Trisodium citrate dihydrate	(CAS-No.) 6132-04-3	10 – 15	Not classified
Sodium silicate	(CAS-No.) 1344-09-8	1 - 5	Acute Tox. 4 (Oral), H302
Sodium metasilicate	(CAS-No.) 6834-92-0	1 – 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 STOT SE 3, H335
Sodium bicarbonate	(CAS-No.) 144-55-8	1 – 5	Not classified
2-Propenoic acid, telomer with sodium hydrogen sulfite, sodium salt	(CAS-No.) 68479-09-4	1 – 5	Not classified
Fatty alcohol alkoxyolate	(CAS-No.) 166736-08-9	1 – 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315
Tetrasodium EDTA	(CAS-No.) 13235-36-4	< 1	Not classified
Sucrose	(CAS-No.) 57-50-1	< 1	Not classified
Starch	(CAS-No.) 9005-25-8	< 1	Not classified
Titanium dioxide	(CAS-No.) 13463-67-7	< 1	Carc. 2, H351
Subtilisins (proteolytic enzymes)	(CAS-No.) 9014-01-1	< 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT SE 3, H335
Poly(oxy-1,2-ethanediy), .alpha.-tridecyl-.omega.-hydroxy-, branched	(CAS-No.) 69011-36-5	< 1	Not classified
Amylase, .alpha.-	(CAS-No.) 9000-90-2	< 1	Resp. Sens. 1, H334

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 after inhalation : If not breathing, give artificial respiration.
- First-aid measures after skin contact : Wash with soap and water. Seek medical advice if skin irritation develops or persists.
- First-aid measures after eye contact : Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.
- First-aid measures after ingestion : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects after inhalation : None under normal use.
- Symptoms/effects after skin contact : Causes skin irritation.
- Symptoms/effects after eye contact : Causes serious eye damage.
- Symptoms/effects after ingestion : May be harmful if swallowed.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : None.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : None known.
- Explosion hazard : None known.

#### 5.3. Advice for firefighters

- Protection during firefighting : Firefighters should wear full protective gear.

### 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

No additional information available

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### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

For containment : Stop the flow of material, if this is without risk.  
Methods for cleaning up : Place in an approved container and dispose in accordance with local, state and federal regulations.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : No special handling required.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>Sodium sulfate (7757-82-6)</b>		
Not applicable		
<b>Disodium carbonate (497-19-8)</b>		
Not applicable		
<b>2-Propenoic acid, telomer with sodium hydrogen sulfite, sodium salt (68479-09-4)</b>		
Not applicable		
<b>Sodium silicate (1344-09-8)</b>		
Not applicable		
<b>Sodium bicarbonate (144-55-8)</b>		
Not applicable		
<b>Sodium metasilicate (6834-92-0)</b>		
Not applicable		
<b>Trisodium citrate dihydrate (6132-04-3)</b>		
Not applicable		
<b>Tetrasodium EDTA (13235-36-4)</b>		
Not applicable		
<b>Sucrose (57-50-1)</b>		
ACGIH	ACGIH OEL TWA	10 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) [1]	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)
NIOSH	NIOSH REL (TWA)	10 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)
<b>Starch (9005-25-8)</b>		
ACGIH	ACGIH OEL TWA	10 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) [1]	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)
NIOSH	NIOSH REL (TWA)	10 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)
<b>Titanium dioxide (13463-67-7)</b>		
ACGIH	ACGIH OEL TWA	10 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) [1]	15 mg/m <sup>3</sup> (total dust)
IDLH	IDLH	5000 mg/m <sup>3</sup>

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Subtilisins (proteolytic enzymes) (9014-01-1)		
ACGIH	ACGIH OEL Ceiling	0.00006 mg/m <sup>3</sup>
NIOSH	NIOSH REL (STEL)	0.00006 mg/m <sup>3</sup>
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-omega.-hydroxy-, branched (69011-36-5)		
Not applicable		
Amylase, .alpha.- (9000-90-2)		
Not applicable		
Fatty alcohol alkoxyate (166736-08-9)		
Not applicable		

### 8.2. Exposure controls

Appropriate engineering controls	: None required under normal product handling conditions.
Hand protection	: Wear impervious gloves to minimize skin contact.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable working clothes.
Respiratory protection	: None required under normal product handling conditions.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Color	: White
Odor	: Characteristic
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
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

No additional information available

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

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### 10.3. Possibility of hazardous reactions

Will not occur.

### 10.4. Conditions to avoid

None.

### 10.5. Incompatible materials

None.

### 10.6. Hazardous decomposition products

Not determined.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

<b>Sodium sulfate (7757-82-6)</b>	
LD50 oral rat	> 10000 mg/kg
LD50 dermal rabbit	> 4 g/kg
<b>Disodium carbonate (497-19-8)</b>	
LD50 oral rat	4090 mg/kg
ATE US (oral)	4090 mg/kg
<b>Sodium silicate (1344-09-8)</b>	
LD50 oral rat	1960 mg/kg
ATE US (oral)	1153 mg/kg
<b>Sodium bicarbonate (144-55-8)</b>	
LD50 oral rat	4220 mg/kg
ATE US (oral)	4220 mg/kg
<b>Sodium metasilicate (6834-92-0)</b>	
LD50 oral rat	1153 mg/kg
ATE US (oral)	600 mg/kg
<b>Tetrasodium EDTA (13235-36-4)</b>	
LD50 oral rat	1658 mg/kg
ATE US (oral)	10000000 mg/kg
<b>Sucrose (57-50-1)</b>	
LD50 oral rat	29700 mg/kg
<b>Titanium dioxide (13463-67-7)</b>	
LD50 oral rat	> 10000 mg/kg
<b>Subtilisins (proteolytic enzymes) (9014-01-1)</b>	
LD50 oral rat	3700 mg/kg
ATE US (oral)	500 mg/kg body weight
<b>Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched (69011-36-5)</b>	
LD50 oral rat	> 2000 mg/kg
<b>Amylase, .alpha.- (9000-90-2)</b>	
LD50 oral rat	> 7500 mg/kg
<b>Fatty alcohol alkoxyate (166736-08-9)</b>	
ATE US (oral)	500 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Causes serious eye damage.  
Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

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<b>Titanium dioxide (13463-67-7)</b>	
IARC group	2B - Possibly carcinogenic to humans
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>Sodium sulfate (7757-82-6)</b>	
LC50 - Fish [1]	13500 – 14500 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 - Crustacea [1]	2564 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	> 6800 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
<b>Disodium carbonate (497-19-8)</b>	
LC50 - Fish [1]	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [1]	265 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	310 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
<b>Sodium silicate (1344-09-8)</b>	
LC50 - Fish [1]	301 – 478 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
LC50 - Fish [2]	3185 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
<b>Sodium bicarbonate (144-55-8)</b>	
LC50 - Fish [1]	8250 – 9000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [1]	2350 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Sodium metasilicate (6834-92-0)</b>	
LC50 - Fish [1]	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
LC50 - Fish [2]	210 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
<b>Tetrasodium EDTA (13235-36-4)</b>	
LC50 - Fish [1]	41 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 - Fish [2]	59.8 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

<b>Disodium carbonate (497-19-8)</b>	
BCF - Fish [1]	(no bioaccumulation)
<b>Sodium silicate (1344-09-8)</b>	
BCF - Fish [1]	(no bioaccumulation expected)

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Not applicable

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### Sodium sulfate (7757-82-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

##### Disodium carbonate (497-19-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

##### 2-Propenoic acid, telomer with sodium hydrogen sulfite, sodium salt (68479-09-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

##### Sodium silicate (1344-09-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

##### Sodium bicarbonate (144-55-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

##### Sodium metasilicate (6834-92-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

##### Tetrasodium EDTA (13235-36-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

##### Sucrose (57-50-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

##### Starch (9005-25-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

##### Titanium dioxide (13463-67-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

##### Subtilisins (proteolytic enzymes) (9014-01-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

##### Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched (69011-36-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

##### Amylase, .alpha.- (9000-90-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

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### 15.2. US State regulations

#### Titanium dioxide (13463-67-7)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	No	No	No	

#### Sodium sulfate (7757-82-6)

U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) List

#### Sucrose (57-50-1)

U.S. - Massachusetts - Right To Know List  
U.S. - Minnesota - Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

#### Starch (9005-25-8)

U.S. - Massachusetts - Right To Know List  
U.S. - Minnesota - Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

#### Titanium dioxide (13463-67-7)

U.S. - Massachusetts - Right To Know List  
U.S. - Minnesota - Hazardous Substance List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information

Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Resp. Sens. 1	Respiratory sensitization, Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H334	May cause an allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer

*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.*