

# Total Clean Dishwasher Detergent Packs - Free & Clear

## MATERIAL SAFETY DATA SHEET

### 1. SECTION 1: CHEMICAL/MIXTURE IDENTIFICATION

<b>1.1 Product identifier</b>	
Product Name	Total Clean Dishwasher Detergent Packs - Free & Clear
CAS No.	Mixture.
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	
Identified use(s)	Dishwasher detergent pack for automatic dishwashing.
Uses advised against	None known
<b>1.3 Details of the supplier of the product</b>	
Company Identification	Grove Collaborative 1301 Sansome Street San Francisco, CA 94111
Telephone	(425) 830-0101
<b>1.4 Emergency telephone number</b>	(425) 830-0101 [8am-5pm M-F (UTC -7)]
Emergency Phone No.	
<b>1.5 Contact E-mail</b>	Maudino@grove.co

### 2. SECTION 2: HAZARDS IDENTIFICATION

"Consumer Products", defined by the US Consumer Product Safety Act and are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided to assist in the safe handling and proper use of the product.

<b>2.1 Classification of the substance or mixture</b>	
GHS 29 CFR 1910.1200	Skin corrosion/irritation – Category 3
<b>2.2 Label elements</b>	
Hazard pictogram(s)	None.
Signal word(s)	<b>None</b>
Hazard statement(s)	H316 – Causes mild skin irritation.
Precautionary statement(s)	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do and continue to rinse. If eye irritation persists: Get medical attention.  IF SWALLOWED: Drink plenty of water. Do NOT induce vomiting. Call poison control if person feels unwell.  IF ON SKIN: Rinse with plenty of water. If skin irritation occurs, get medical attention. Remove contaminated clothing if safe to do so.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing issues continue get medical attention.

2.3 Other hazards None.

2.4 Additional Information None.

### 3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Mixtures

29 CFR 1910.1200

Ingredient(s)	%W/W	CAS No.
Sodium carbonate	30-40	497-19-8
Trisodium citrate	30-40	6132-04-3
Sodium carbonate peroxide	5-15	15630-89-4
Sodium sulfate	5-15	7757-82-6
Sodium silicate, hydrous	1-3	1344-09-8
Sorbitan caprylate	1-3	60177-36-8, 95508-00-2
Sodium carboxymethyl inulin	1-3	430439-54-6
Tetrasodium N,N-bis(carboxymethyl)-L-glutamate	1-3	51981-21-6
Substilin	1-3	N/A
Alpha-amylase	1-3	N/A

3.2 Additional Information None.

### 4. SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, get medical attention.

Skin Contact

Wash with plenty of water. If irritation develops, get medical attention. Remove contaminated clothing if safe to do so.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do and continue to rinse. If eye irritation persists: Get medical attention.

Ingestion

Give plenty of water to drink. Do NOT induce vomiting. Get medical attention immediately.

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

None anticipated.

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

Unlikely to be required but if necessary treat symptomatically.

### 5. SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing Media

Suitable Extinguishing Media

Water spray, foam, dry powder or CO2.

Unsuitable Extinguishing Media

None known.

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

None anticipated.

#### 5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

### 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Caution - spillages may be slippery. Ensure adequate ventilation. Wear personal protective equipment.

#### 6.2 Environmental precautions

Do not release large quantities into the surface water or into drains.

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

Household Handling

Industrial Handling

Small spills and leaks may be cleaned up and disposed of in household trash or diluted and disposed of down drain. Stop spill at source and contain material. Adsorb spillages onto sand, earth or any suitable adsorbent material. Dispose of liquid and adsorbent material in accordance with all applicable local, state, and federal regulations. Small amounts may be flushed to a sewer.

### 6.4 Reference to other sections

See Also Section: 8, 13.

## 7. SECTION 7: HANDLING AND STORAGE

General hygiene measures for the handling of chemicals are applicable.

### 7.1 Precautions for safe handling

Household Handling

Use as directed on product label. Wash hands and exposed skin after use. Do not eat, drink or smoke when using this product.

Industrial Handling

Wear suitable personal protective equipment. Wash hands and exposed skin after use.

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

Storage Temperature

KEEP OUT OF REACH OF CHILDREN AND PETS. Store in original container in a cool, dry location and keep container closed after use.

Storage Life

Ambient.

Incompatible materials

Stable under normal conditions.

### 7.3 Specific end use(s)

None know.

Dishwasher detergent pack for automatic dishwashing.

## 8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### 8.1.1 Occupational Exposure Limits

Not established.

#### 8.1.2 Biological limit value

Not established.

#### 8.1.3 PNECs and DNELs

Not established.

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Provide adequate ventilation.

#### 8.2.2 Personal protection equipment

Household Handling

No special precautions necessary as long as product is used as directed.

Industrial Handling

Eye/face protection

Wear protective eye glasses for protection against liquid splashes or solid spills.

Skin protection (Hand protection/ Other)

Wear suitable gloves if prolonged skin contact is likely. Wear impervious gloves (EN374).

Respiratory protection

Normally no personal respiratory protection is necessary.

Thermal hazards

Not applicable.

#### 8.2.3 Environmental Exposure Controls

Do not release large quantities into the surface water or into drains.

## 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance

Granular powder.

Color

White.

Odor

Unfragranced.

Odor Threshold

Not established.

pH (1% solution)

9.5-11.5

	Melting Point/Freezing Point	Not established.
	Solubility	Soluble in water.
<b>9.2</b>	<b>Other information</b>	None.

## 10. SECTION 10: STABILITY AND REACTIVITY

<b>10.1</b>	<b>Reactivity</b>	Stable under normal conditions.
<b>10.2</b>	<b>Chemical stability</b>	Stable under normal conditions.
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	No hazardous reactions known if used for its intended purpose.
<b>10.4</b>	<b>Conditions to avoid</b>	Cleaning products should not be mixed with other household chemicals unless specifically provided according to label directions.
<b>10.5</b>	<b>Incompatible materials</b>	Strong oxidizers or reducing agents, strong acids or strong bases.
<b>10.6</b>	<b>Hazardous Decomposition Product(s)</b>	No hazardous decomposition products known.

## 11. SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Ingredient(s)	CAS No.	Oral LD 50 (Rat)	Dermal LD 50 (Mouse)	Inhalation LC 50 (Rat)
Sodium carbonate	497-19-8	4090 mg/kg	2210 mg/kg	2300 mg/L
Trisodium citrate	6132-04-3	Not listed	Not listed	Not listed
Sodium carbonate peroxide	15630-89-4	2400 mg/kg	Not listed	Not listed
Sodium sulfate	7757-82-6	5989 mg/kg	Not listed	Not listed
Sodium silicate, hydrous	1344-09-8	Not listed	Not listed	Not listed
Sorbitan caprylate	60177-36-8, 95508-00-2	Not listed	Not listed	Not listed
Sodium carboxymethyl inulin	430439-54-6	Not listed	Not listed	Not listed
Tetrasodium N,N-bis(carboxymethyl)-L-glutamate	51981-21-6	> 2000 mg/kg	Not listed	>5 mg/L
Subtilin	N/A	Not listed	Not listed	Not listed
Alpha-amylase	N/A	Not listed	Not listed	Not listed

	<b>Acute toxicity</b>	None anticipated.
	<b>Irritation</b>	Causes mild skin irritation.
	<b>Corrosivity</b>	None anticipated.
	<b>Sensitisation</b>	None anticipated.
	<b>Repeated dose toxicity</b>	None anticipated.
<b>11.2</b>	<b>Other information</b>	None.

## 12. SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

Ingredient(s)	CAS No.	Fish LC 50 (96h)	Daphnea EC 50 (48h)
Sodium carbonate	497-19-8	300 mg/L (L. macrochius)	265 mg/L
Trisodium citrate	6132-04-3	Not listed	Not listed
Sodium carbonate peroxide	15630-89-4	70.7 mg/L (Pimephales promelas)	4.9 mg/L (Daphnia pulex)
Sodium sulfate	7757-82-6	Not listed	Not listed
Sodium silicate, hydrous	1344-09-8	Not listed	Not listed
Sorbitan caprylate	60177-36-8, 95508-00-2	Not listed	Not listed
Sodium carboxymethyl inulin	430439-54-6	>10000 mg/L (Zebra fish)	Not listed
Tetrasodium N,N-bis(carboxymethyl)-L-glutamate	51981-21-6	>100 mg/L	>100 mg/L
Subtilin	N/A	Not listed	Not listed
Alpha-amylase	N/A	Not listed	Not listed

12.2	<b>Persistence and degradability</b>	No information available.
12.3	<b>Bioaccumulative potential</b>	No information available.
12.4	<b>Mobility in soil</b>	No information available.
12.5	<b>Results of PBT and VPvB assessment</b>	Not classified as PBT or vPvB.
12.6	<b>Other adverse effects</b>	None known.

### 13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	<b>Waste treatment methods</b>	Use appropriate tools to put the spilled substance in a convenient waste disposal container. Finish cleaning by spreading soap and water on the contaminated surface.
13.2	<b>Additional Information</b>	Disposal should be in accordance with local, state or national legislation.

### 14. SECTION 14: TRANSPORT INFORMATION

Not regulated for transport in accordance with US DOT Regulations.

14.1	<b>UN number</b>	Not applicable.
14.2	<b>UN Proper Shipping Name</b>	Not applicable.
14.3	<b>Transport hazard class(es)</b>	Not applicable.
14.4	<b>Packing Group</b>	Not applicable.
14.5	<b>Environmental hazards</b>	Not applicable.
14.6	<b>Special precautions for user</b>	Not applicable.
14.7	<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.

### 15. SECTION 15: REGULATORY INFORMATION

15.1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
15.2	<b>GHS</b>	Created in accordance with the CPSC's implementation of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

### 16. SECTION 16: OTHER INFORMATION

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

This product is labeled in accordance with regulations administered by the Consumer Product Safety Commission (CPSC). The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration applicable to this SDS differ from the labeling requirements of the CPSC and, as a result, this SDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

#### LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative

#### Disclaimers

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