

Power Plus Dishwasher Detergent Packs – Free & Clear

MATERIAL SAFETY DATA SHEET

1. SECTION 1: CHEMICAL/MIXTURE IDENTIFICATION

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

2.1	Classification of the substance or mixture GHS 29 CFR 1910.1200	Skin corrosion/irritation – Category 3
2.2	Label elements Hazard pictogram(s) Signal word(s) Hazard statement(s) Precautionary statement(s)	None. None H316 – Causes mild skin irritation. 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.
Trisodium citrate	30-40	6132-04-3
Sodium carbonate	30-40	497-19-8
Sodium carbonate peroxide	5-20	15630-89-4
Sodium citrate, anhydrous	2-5	68-04-2
Tetrasodium N,N-bis(carboxymethyl)-L-glutamate	2-5	51981-21-6
Substilin	1-3	N/A
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
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	Small spills and leaks may be cleaned up and disposed of in household trash or diluted and disposed of down drain.
	Industrial Handling	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	KEEP OUT OF REACH OF CHILDREN AND PETS. Store in original container in a cool, dry location and keep container closed after use.
	Storage Temperature	Ambient.
	Storage Life	Stable under normal conditions.
	Incompatible materials	None know.
7.3	Specific end use(s)	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.
	pH (1% solution)	9.5-11.5
	Melting Point/Freezing Point	Not established.

9.2 **Other information**

Solubility Soluble in water.
None.

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	No hazardous reactions known if used for its intended purpose.
10.4 Conditions to avoid	Cleaning products should not be mixed with other household chemicals unless specifically provided according to label directions.
10.5 Incompatible materials	Strong oxidizers or reducing agents, strong acids or strong bases.
10.6 Hazardous Decomposition Product(s)	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)
Trisodium citrate	6132-04-3	Not listed	Not listed	Not listed
Sodium carbonate	497-19-8	4090 mg/kg	2210 mg/kg	2300 mg/L
Sodium carbonate peroxide	15630-89-4	2400 mg/kg	Not listed	Not listed
Sodium citrate, anhydrous	68-04-2	Not listed	Not listed	Not listed
Tetrasodium N,N-bis(carboxymethyl)-L-glutamate	51981-21-6	> 2000 mg/kg	Not listed	>5 mg/L
Substilin	N/A	Not listed	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
Alpha-amylase	N/A	Not listed	Not listed	Not listed

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

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Ingredient(s)	CAS No.	Fish LC 50 (96h)	Daphnea EC 50 (48h)
Trisodium citrate	6132-04-3	Not listed	Not listed
Sodium carbonate	497-19-8	300 mg/L (L. macrochius)	265 mg/L
Sodium carbonate peroxide	15630-89-4	70.7 mg/L (Pimephales promelas)	4.9 mg/L (Daphnia pulex)
Sodium citrate, anhydrous	68-04-2	Not listed	Not listed
Tetrasodium N,N-bis(carboxymethyl)-L-glutamate	51981-21-6	>100 mg/L	>100 mg/L
Substilin	N/A	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
Alpha-amylase	N/A	Not listed	Not listed

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

13. SECTION 13: DISPOSAL CONSIDERATIONS

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

15. SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.2	GHS	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

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