

Power Clean Laundry Detergent – Free & Clear

MATERIAL SAFETY DATA SHEET

1. SECTION 1: CHEMICAL/MIXTURE IDENTIFICATION

1.1 Product identifier	Product Name CAS No.	Power Clean Laundry Detergent – Free & Clear Mixture.
1.2 Relevant identified uses of the substance or mixture and uses advised against	Identified use(s) Uses advised against	Liquid laundry detergent for in-home laundry. 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	Smiller@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	
2.2 Label elements	Hazard pictogram(s) Signal word(s) Hazard statement(s) Precautionary statement(s)	None None H316 – Causes mild skin irritation – Category 3 IF IN EYES: Rinse with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: get medical advice/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. Wash hands thoroughly after handling.
2.3 Other hazards	None.	

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Mixtures**

29 CFR 1910.1200

Ingredient(s)	%W/W	CAS No.
Water	35-45	7732-18-5
Sodium lauryl sulfate	20-30	68585-47-7
Laureth-6	10-20	68439-50-9
Trisodium citrate	5-10	6132-04-3
Glycerin	2-4	56-81-5
Oleic acid	2-4	112-80-1
Protease	1-3	9001-92-7
Sodium hydroxide	0.1-1	1310-73-2
Alpha-amylase	0.1-1	9000-90-2
Mannanase	0.1-1	37288-54-3
1,2-benzisothiazolin-3-one, 2-methyl-4-isothiazolin-3-one	< 0.2	2682-20-4, 2634-33-5
Calcium chloride	< 0.2	10043-52-4

3.2 Additional Information

None.

4. SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

Inhalation

N/A

Skin Contact

Rinse with plenty of water. If skin irritation occurs: get medical advice/attention.

Eye Contact

Rinse with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: get medical advice/attention. Wash hands thoroughly after handling.

Ingestion

Not an expected route of exposure. If swallowed: Clean mouth with water and drink plenty of water. Do NOT induce vomiting. Call a poison center or doctor if you feel unwell.

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

Storage Temperature

Ambient.

Storage Life

Stable under normal conditions.

Incompatible materials

None know.

7.3 Specific end use(s)

Liquid laundry detergent for in-home laundry.

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

Use personal protective equipment as required.

Skin protection (Hand protection/ Other)

Use personal protective equipment as required.

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

Liquid slightly thicker than water.

Color

Clear/off-clear/slightly yellow.

Odor

Unfragranced.

pH (1% Solution)

8.5 - 8.9.

Viscosity

75 – 150 cps.

Solubility

Soluble in water.

9.2 Other information

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)
Laureth-6	68439-50-9	6365 mg/kg	Not listed	Not listed
Glycerin	56-81-5	12,600 mg/kg	> 10 g/kg	> 570 mg/m ³
Oleic acid	112-80-1	74,000 mg/kg	Not listed	Not listed
1,2-benzisothiazolin-3-one, 2-methyl-4-isothiazolin-3-one	2682-20-4, 2634-33-5	>2500 mg/kg	>2000 mg/kg	5.71 mg/L
Calcium chloride	10043-52-4	1,000 mg/kg	274 mg/kg	264 mg/kg

	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	No information available.
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Ingredient(s)	CAS No.	Fish LC 50 (96h)	Daphnea EC 50 (48h)
Sodium lauryl sulfate	68585-47-7	3.6 mg/L	1.37 – 4.7 mg/L
Glycerin	56-81-5	51 – 57 mL/L	> 500 mg/L
Sodium hydroxide	1310-73-2	125 mg/L	Not listed
1,2-benzisothiazolin-3-one, 2-methyl-4-isothiazolin-3-one	2682-20-4, 2634-33-5	Not listed	32 mg/L (Daphnia)

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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