



Material Safety Data Sheet

Revision Date 29-Aug-2012

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Label Name Sunlight Auto Dish Powder Pac - Lemon Boost 20ct
Product name SUNLIGHT 6/20CT SDP LEMON BOOST
UPC Code 10072613711021
Recommended Use Dishwashing single dose powder detergent pack for your automatic dishwasher.

Supplier Address
Sun Products Corporate Office
60 Danbury Road
Wilton, CT 06897
USA

Chemical Emergency Phone Number Chemtrec 1-800-424-9300 (24 hour)
Poison Control 1-800-222-1222 (24 hour)

Company Emergency Phone Number Prostar: 1-800-565-5597 (24 hours)

General Questions: Sunlight - 1-800-298-5021 (Monday – Friday, 8:30AM to 6:00PM EST)

2. HAZARDS IDENTIFICATION

Warning!

Emergency Overview

Irritating to eyes
Vapors may be irritating to eyes, nose, throat, and lungs
Keep out of the reach of children

Potential Health Effects

See Section 11 for additional Toxicological information.

Ingestion Ingestion may cause irritation to mucous membranes. Ingestion causes burns of the upper digestive and respiratory tracts.

Eyes Moderately irritating to the eyes. May cause irritation.

Skin May cause irritation.

Inhalation May cause irritation of respiratory tract.

Chronic Effects Avoid repeated exposure.

Aggravated Medical Conditions None known.

Environmental hazard See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients as defined by the OSHA Hazard Communication Standard (29CFR § 1910.1200).

Chemical Name	CAS-No	Weight %
Sodium carbonate	497-19-8	15-40
Alcohols, C16-22, ethoxylated	69227-20-9	1 - 5 %
ALCOHOLS, C12-13, ETHOXYLATED	66455-14-9	<0.1%

Under normal consumer household use, this product would not constitute a hazardous product by OSHA definition as OSHA is not applicable to household consumer use.

4. FIRST AID MEASURES

General advice	If symptoms persist, call a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Inhalation	Move to fresh air. If symptoms persist, call a physician. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors.
Ingestion	Immediate medical attention is not required. Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.
Notes to physician	Treat symptomatically.
Protection of First-aiders	Use personal protective equipment.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable.
Flash point	> 201 °F / > 94 °C
Flammability Limits in Air	
Upper Flammability Limit	No information available
Lower Flammability Limit	No information available
Autoignition temperature	No information available
Hazardous Combustion Products	None.
Explosive properties	No information available
Explosion Limits	
Upper (UEL)	No information available
Lower (LEL)	No information available

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media None.

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA	Health Hazard 2	Flammability 1	Stability 0	Physical and chemical hazards - Personal protection -
HMIS	Health Hazard 2	Flammability 1	Physical Hazard 0	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment. Avoid contact with the skin and the eyes. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Use personal protective equipment. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Avoid dust formation. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers.

Other information not applicable.

7. HANDLING AND STORAGE

Advice on safe handling Ensure adequate ventilation. Wear personal protective equipment. Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors or spray mist.

Technical measures/Storage conditions Keep container tightly closed. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
TITANIUM DIOXIDE 13463-67-7	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust (vacated) TWA: 10 mg/m ³ total dust	IDLH: 5000 mg/m ³
Subtilisin 9014-01-1	Ceiling: 0.00006 mg/m ³ as crystalline active enzyme	(vacated) STEL: 0.00006 mg/m ³ 60 min	STEL: 0.00006 mg/m ³ 60 min Subtilisins

NIOSH IDLH: *Immediately Dangerous to Life or Health*

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Engineering Measures None under normal use conditions

Personal Protective Equipment

Eye/Face Protection Tightly fitting safety goggles Face-shield

Skin and body protection No protective equipment is needed under normal use conditions.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	powder	Appearance	FREE-FLOWING POWDER
Color	WHITE W/ BLUE SPECKS	Odor	Characteristic
Odor Threshold	No information available	pH	10.75 PH - 1% SOLUTION.
Specific Gravity	no data available	Density	0.95 g/cm ³
Viscosity, kinematic		Flash point	> 201 °F / > 94 °C
Method	No information available	Autoignition temperature	No information available
Decomposition temperature	no data available	Boiling point/boiling range	no data available
Melting point	no data available	Freezing Point	no data available
Water solubility	Soluble in water	Evaporation rate	no data available
Vapor pressure	no data available	Vapor density	No data available
VOC Content(%)	not applicable		
Flammability Limits in Air		Explosion Limits	
Upper Flammability Limit	no data available	Upper (UEL)	no data available
Lower Flammability Limit	no data available	Lower (LEL)	no data available

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible products	Strong oxidizing agents, strong acids, and strong bases.
Conditions to Avoid	Extremes of temperature and direct sunlight. Do not freeze.
Hazardous Decomposition Products	None known based on information supplied.
Hazardous Reactions	None known based on information supplied.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Ingestion	May be harmful if swallowed. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Eye contact	Avoid contact with eyes. Moderately irritating to the eyes. May cause irritation.
Skin contact	Prolonged skin contact may cause skin irritation.
Inhalation	May cause irritation of respiratory tract.
Product Safety Profile	Product is safe for its intended use based on the formulation, testing results, and the long history of safe consumer use.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation

Sodium carbonate	4090 mg/kg (Rat)		
ALCOHOLS, C12-13, ETHOXYLATED	10 g/kg (Rat)	2 g/kg (Rat)	

Chronic toxicity

Chronic toxicity Avoid repeated exposure.

Carcinogenicity This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B)

Sensitization None known.

Germ Cell Mutagenicity None known.

Reproductive toxicity This product does not contain any known or suspected reproductive hazards

Developmental Toxicity None known

Target Organ Effects None known

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Sodium carbonate	242: 120 h Nitzschia mg/L EC50	300: 96 h Lepomis macrochirus mg/L LC50 static 310 - 1220: 96 h Pimephales promelas mg/L LC50 static		265: 48 h Daphnia magna mg/L EC50

Persistence and degradability No data is available on the product itself.

Bioaccumulation Not likely to bioaccumulate.

Mobility Not Determined .

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements

Contaminated packaging Do not re-use empty containers

California Hazardous Waste Codes 561

California Waste Status

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Sodium carbonate	Corrosive

14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG</u>	Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

SARA 313

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.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	no
Fire Hazard	no
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

Clean Water Act

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).

CERCLA

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.

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
TITANIUM DIOXIDE	Carcinogen

U.S. State Right-to-Know Regulations

