



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 Prosar: 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 - |
| HMIS | Health Hazard 2 | Flammability 1 | Physical Hazard 0 | Personal protection - |

6. ACCIDENTAL RELEASE MEASURES

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| 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

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| 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/cm3 |
| 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

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|---|---|
| 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

| | |
|-------------|----------|
| <u>TSCA</u> | Complies |
| <u>DSL</u> | Complies |

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - 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

| Chemical Name | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|---------------------|---------------|------------|--------------|----------|--------------|
| 1,2,3-Benzotriazole | X | | | | |

Mexico**Mexico - Grade**

Slight risk, Grade 1

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

D2A Very toxic materials

D2B Toxic materials

Non-controlled

**16. OTHER INFORMATION****Prepared By**Sun Products Corporation
Regulatory Affairs**Revision Date**

29-Aug-2012

Revision Note

no data available.

Status

0

PROTYP

F30

Disclaimer

The (M)SDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Sun Products Corporation to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Sun Products Corporation assumes no responsibility for injury to the recipient of third persons, or for any damage to any property resulting from misuse of the product.

End of Material Safety Data Sheet