

Material Safety Data Sheet



Issuing Date: 24-May-2013

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Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product ID: 01061006

Product name BASIC WHITE POWDER LIGHTENER

Product Type Finished Product - Consumer (Retail) and Professional Use

Recommended use Personal Beauty Care Product

Synonyms No information available

Manufacturer The Procter & Gamble Company
Sharon Woods Innovation Center
11510 Reed Hartman Highway
Cincinnati OH 45202

E-mail Address pgsds.im@pg.com

Emergency telephone Transportation (24 HR)
CHEMTREC - 1-800-424-9300
(U.S./ Canada) or 1-703-527-3887
Mexico toll free in country: 01-800-681-9531

2. HAZARDS IDENTIFICATION

Emergency Overview

Harmful if swallowed
Risk of serious damage to eyes
Irritating to respiratory system and skin
May cause sensitization by inhalation and skin contact

OSHA Regulatory Status Consumer Products as defined by the U.S. Consumer Product Safety Act which are used as intended (typical consumer duration and frequency) are exempt from the OSHA Hazard Communication Standard. When used in a professional setting (at a much higher frequency and duration than a typical consumer) this material would be considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

WHMIS Not subject to WHMIS classification.

Principle Routes of Exposure Eye Contact. Ingestion. Skin Contact. Inhalation.

General Hazards This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % |
|--|-----------|----------|
| Dipotassium peroxodisulphate | 7727-21-1 | 15 - 40 |
| Diammonium peroxodisulphate | 7727-54-0 | 10 - 30 |
| Disodium metasilicate | 6834-92-0 | 10 - 30 |
| Octadecanoic acid, sodium salt (1:1) | 822-16-2 | 7 - 13 |
| Sulfuric acid monododecyl ester sodium salt (1:1) | 151-21-3 | 1 - 5 |
| Glycine, N,N'-1,2-ethanediybis[N-(carboxymethyl)-, sodium salt (1:2) | 139-33-3 | 1 - 5 |

4. FIRST AID MEASURES

General advice When symptoms persist or in all cases of doubt seek medical advice.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Consult a physician. Get medical attention immediately if symptoms occur.

Skin Contact If skin problems occur, discontinue use. May cause an allergic skin reaction. Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.

Ingestion If swallowed. Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.

Inhalation Move to fresh air. Get medical attention if irritation persists. May cause allergic respiratory reaction. Get medical attention immediately if symptoms occur.

Protection of First-aiders Use personal protective equipment.

Most important symptoms/effects, acute and delayed None known.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point No information available

Suitable extinguishing media Dry chemical, CO₂, water spray or alcohol-resistant foam.

Extinguishing media which shall not be used for safety reasons No information available

Special Hazard These are strong oxidizers and will react vigorously or explosively with many materials including fuels

Special protective equipment for fire-fighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Avoid dust formation. Avoid contact with the skin and the eyes.

Advice for emergency responders Use personal protective equipment.

Environmental precautions **Household:** Do not discharge product into natural waters without pre-treatment or adequate dilution. **Non-household:** Should not be released into the environment.

Methods for Containment **Non-household:** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods for Cleaning up **Non-household:** Avoid dust formation. Clean up promptly by scoop or vacuum. Keep in suitable, closed containers for disposal. Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Advice on safe handling Keep out of the reach of children. Observe label precautions.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH | P&G OEL | Mexico OEL |
|------------------------------|--|----------|----------------------------|----------------------------|------------|
| Dipotassium peroxodisulphate | TWA: 0.1 mg/m ³ Persulfate | - | | | - |
| Diammonium peroxodisulphate | TWA: 0.1 mg/m ³ Persulfate | - | | | - |
| Chemical Name | Alberta | Quebec | Ontario TWAEV | British Columbia | |
| Dipotassium peroxodisulphate | | | TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ | |
| Diammonium peroxodisulphate | | | TWA: 0.1 mg/m ³ | TWA: 0.1 mg/m ³ | |

Engineering Measures Not applicable.

Personal Protective Equipment

Eye Protection Safety glasses with side-shields.

Hand Protection Rubber/latex/neoprene or other suitable chemical resistant gloves.

Skin and body protection Wear protective gloves/clothing.

Respiratory protection Use only with adequate ventilation

Thermal hazards Not applicable.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required.

Environmental Exposure Controls See Section 6.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State @20°C solid
Appearance white. powder.
Odor Sharp

| <u>Property</u> | <u>Values</u> | <u>Note</u> |
|---|--------------------------|-------------|
| pH VALUE | No information available | |
| melting/freezing point | No information available | |
| Boiling point/boiling range | No information available | |
| Flash Point | No information available | |
| Evaporation Rate | No information available | |
| flammability (solid, gas) | No information available | |
| Flammability Limits in Air | | |
| Upper Flammability Limit | No information available | |
| lower flammability limit | No information available | |
| vapor pressure | No information available | |
| Vapor Density | No information available | |
| Relative Density | No information available | |
| Water solubility | No information available | |
| Solubility in other solvents | No information available | |
| Partition coefficient: n-octanol/water | No information available | |
| Autoignition Temperature | No information available | |
| decomposition temperature | No information available | |
| Viscosity of Product | No information available | |
| Bulk Density | No information available | |

| Chemical Name | Partition Coefficient (n-octanol/water) |
|--|---|
| Sulfuric acid monododecyl ester sodium salt (1:1) | -2.03 (at 20 C; Computational Approach in OECD Guideline 107) |
| Glycine, N,N'-1,2-ethanediybis[N-(carboxymethyl)-, sodium salt (1:2) | -4.3(shake-flask; 25 C and pH 4.5) |

VOC Content Products comply with US state and federal regulations for VOC content in consumer products.

Oxidizing properties No information available

10. STABILITY AND REACTIVITY

Reactivity None under normal use conditions.

Stability Stable under normal conditions.

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

Conditions to Avoid Heat, flames and sparks. Protect from light.

Materials to Avoid Strong reducing agents. Organic material. Alkaline.

Hazardous Decomposition Products None under normal use.

11. TOXICOLOGICAL INFORMATION

Product Information

| | |
|-------------------------------------|---|
| <u>Acute Toxicity</u> | Risk of serious damage to eyes. May be harmful if swallowed. Irritating to respiratory system and skin. |
| Principle Routes of Exposure | Eye Contact. Ingestion. Skin Contact. Inhalation. |
| Inhalation | Irritating to respiratory system. May cause sensitization by inhalation. |
| Skin Contact | Irritating to skin. May cause sensitization by skin contact. |
| Ingestion | Harmful if swallowed. |
| Eye Contact | Risk of serious damage to eyes. |

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--|--------------------------------|--|--|
| Dipotassium peroxodisulphate | = 802 mg/kg (Rat) | - | - |
| Diammonium peroxodisulphate | = 495 mg/kg (Rat) | - | = 520 mg/L (Rat) 1 h |
| Disodium metasilicate | 1280.00 mg/kg (rat) | > 5000 mg/kg bw (Guideline: EPA OPPTS 870.1200, Rat, Read across information (Potassium silicate solution) is provided.) | > 2.06 mg/L air (Guideline: EPA OPPTS 870.1300, Rat, Read across information (Potassium silicate solution) is provided.) |
| Sulfuric acid monododecyl ester sodium salt (1:1) | 1200 mg/kg bw (OECD 401, Rat) | > 2000 mg/kg bw (Expert assessment) | > 3900 mg/m ³ (Rat) 1 h |
| Glycine, N,N'-1,2-ethanediylobis[N-(carboxymethyl)-, sodium salt (1:2) | 2800 mg/kg bw (Rat) | - | 1 - 5 mg/l (rat) (4h) |

Chronic toxicity

| | |
|-------------------------------|---|
| Corrosivity | No known effect. |
| Sensitization | May cause sensitization by inhalation and skin contact. |
| Neurological Effects | No known effect. |
| Reproductive toxicity | The product contains no substances known to be hazardous to health in concentrations which need to be taken into account. |
| MUTAGENIC EFFECTS | There are no known mutagenic chemicals in this product. |
| Developmental Toxicity | No known effect. |
| Teratogenicity | No known effect. |
| Carcinogenicity | Contains no ingredients above reportable quantities listed as a carcinogen. |

12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute Toxicity

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to microorganisms | Toxicity to daphnia and other aquatic invertebrates | Toxicity to other organisms |
|--|--|--|---|---|-----------------------------|
| Diammonium peroxodisulphate | - | LC50 96 h = 103 mg/L Lepomis macrochirus static LC50 96 h = 76.3 mg/L Oncorhynchus mykiss static LC50 96 h = 323 mg/L Poecilia reticulata | - | EC50 48 h = 120 mg/L Daphnia magna | - |
| Disodium metasilicate | 207 mg/L (Desmodesmus subspicatus; Basis for effect: Biomass, Read across data on Soluble Silicates) | 210 mg/L (Guideline: ISO 7346-1; Brachydanio rerio) | 1000 mg/L (Guideline: DIN 38412-27; Pseudomonas putida) | 1700 mg/L (Guideline: EU Method C.2; Daphnia magna. Read across data (of potassium dichromate).) | - |
| Sulfuric acid monododecyl ester sodium salt (1:1) | > 120 mg/L (DIN 38412, part 9; Desmodesmus subspicatus, based on growth rate) | 29 mg/L (OECD 203, Pimephales promelas, flow-through) | 135 mg/L (Activated sludge, respiration rate) | 5.55 mg/L (Ceriodaphnia dubia, flow-through) | - |
| Glycine, N,N'-1,2-ethanediybis[N-(carboxymethyl)-, sodium salt (1:2) | > 60 mg/L (Read across data on Fe(III)EDTA; OECD 201; static; Pseudokirchnerella subcapitata) | 41 mg/L (Read across data on Ethylenediaminetetraacetic acid; static; Lepomis macrochirus) | EC10: > 500 mg/L (OECD 209; static; activated sludge, domestic) | 140 mg/L (Guideline: DIN 38412, part 11; static; Daphnia magna) | - |

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to Microorganisms | Toxicity to daphnia and other aquatic invertebrates | Toxicity to other organisms |
|--|---|--|----------------------------|---|-----------------------------|
| Sulfuric acid monododecyl ester sodium salt (1:1) | 30 mg/L (DIN 38412, part 9; Desmodesmus subspicatus, based on biomass) | > 1.357 mg/L (Pimephales promelas, 42 d) | | | |
| Glycine, N,N'-1,2-ethanediybis[N-(carboxymethyl)-, sodium salt (1:2) | 48.4 mg/L (Read across data on Fe(III)EDTA; OECD 201; static; Pseudokirchnerella subcapitata) | >=25.7 mg/L (Read across data on CaNa2EDTA; OECD 210; flow-through; Danio rerio) | | 25 mg/L (Guideline: EEC Guideline XI/681/86, Draft 4; semi-static; Daphnia magna) | |

Persistence and degradability

| Chemical Name | Ready Test Results | Other Degradability / Persistence Test Results |
|--|--|--|
| Disodium metasilicate | | Readily eliminable from water |
| Sulfuric acid monododecyl ester sodium salt (1:1) | 95% (OECD 301 B; 28 d, CO2 evolution) | |
| Glycine, N,N'-1,2-ethanediybis[N-(carboxymethyl)-, sodium salt (1:2) | 54.9% (Guideline: PN-88/C-05561; O2 consumption) | 0-20% (CO2 evolution in soil) |

Bioaccumulative potential

| Chemical Name | Bioconcentration factor (BCF) |
|--|---|
| Glycine, N,N'-1,2-ethanediybis[N-(carboxymethyl)-, sodium salt (1:2) | 1.8 (Read across data on Ethylenediaminetetraacetic acid (EDTA), tetrasodium salt; Lepomis macrochirus) |

Mobility

No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products **Household:** Do not discharge product into natural waters without pre-treatment or adequate dilution. **Non-household:** Should not be released into the environment. Dispose of in accordance with local regulations.

Contaminated packaging Dispose of in accordance with local regulations.

California Hazardous Waste Codes (non-household setting) 331

14. TRANSPORT INFORMATION

DOT

UN/ID no UN1479
Proper shipping name Oxidizing solid, n.o.s.
Hazard Class 5.1
Packing group III
Description UN1479, Oxidizing solid, n.o.s (Dipotassium Peroxodisulphate, Diammonium Peroxodisulphate), 5.1, III, Ltd. Qty.
Emergency Response Guide Number 140

TDG

UN/ID no UN1479
Proper shipping name Oxidizing solid, n.o.s.
Hazard Class 5.1
Packing group III
Description UN1479, Oxidizing solid, n.o.s (Dipotassium Peroxodisulphate, Diammonium Peroxodisulphate), 5.1, III, Ltd. Qty.

MEX

UN/ID no UN1479
Proper shipping name Oxidizing solid, n.o.s.
Hazard Class 5.1
Packing group III
Description UN1479, Oxidizing solid, n.o.s (Dipotassium Peroxodisulphate, Diammonium Peroxodisulphate), 5.1, III, Ltd. Qty.

IATA

UN/ID no UN1479
Proper shipping name Oxidizing solid, n.o.s.
Hazard Class 5.1
Packing group III
ERG Code 5L
Description UN1479, Oxidizing solid, n.o.s (Dipotassium Peroxodisulphate, Diammonium Peroxodisulphate), 5.1, III, Ltd. Qty.

ICAO

UN/ID no UN1479

Proper shipping name Oxidizing solid, n.o.s.
Hazard Class 5.1
Packing group III
Description UN1479, Oxidizing solid, n.o.s (Dipotassium Peroxodisulphate, Diammonium Peroxodisulphate), 5.1, III, Ltd. Qty.

IMDG/IMO

UN/ID no UN1479
Proper shipping name Oxidizing solid, n.o.s.
Hazard Class 5.1
Packing group III
EmS No. F-A, S-Q
Description UN1479, Oxidizing solid, n.o.s (Dipotassium Peroxodisulphate, Diammonium Peroxodisulphate), 5.1, III, Ltd. Qty.

| |
|-----------------------------------|
| 15. REGULATORY INFORMATION |
|-----------------------------------|

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | CAS-No | Weight % | SARA 313 - Threshold Values % |
|-----------------------------|-----------|----------|-------------------------------|
| Diammonium peroxodisulphate | 7727-54-0 | 21.52 | 1.0 |

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute Health Hazard | yes |
| Chronic Health Hazard | No |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | yes |

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.

Food and Drug Administration (FDA)

The product described in this Material Safety Data Sheet is regulated under the Federal Food, Drug, and Cosmetics Act and is safe to use as per directions on container, box or accompanying literature (where applicable).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

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).

U.S. State Regulations**California Proposition 65**

This product is not subject to warning labeling under California Proposition 65

| Chemical Name | New Jersey |
|------------------------------|------------|
| Dipotassium peroxodisulphate | X |
| Diammonium peroxodisulphate | X |

| Chemical Name | Massachusetts |
|------------------------------|---------------|
| Dipotassium peroxodisulphate | X |

| Chemical Name | Pennsylvania |
|------------------------------|--------------|
| Dipotassium peroxodisulphate | X |

International Regulations

Canada

WHMIS Hazard Class

Not subject to WHMIS classification

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. This product is regulated by the Food and Drug Administration of Health Canada and is therefore exempt from the requirements of CEPA.

International Inventories

TSCA Product is a personal care product and regulated under FDA
DSL Exempt
NDSL Exempt

Perfumes contained with the products comply with appropriate IFRA guidance.

Legend

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

16. OTHER INFORMATION

Issuing Date: 24-May-2013
Revision Date: 24-May-2013

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of MSDS