



Material Safety Data Sheet

Revision Date 08-Jul-2014

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Label Name Kirkland Signature Environmentally Responsible Ultra Clean Premium Laundry Detergent - Clean Escape 194oz
UPC Code 96619627455
Product Type FABRIC CLEANING LIQUID
Recommended Use Laundry detergent liquid for clothes washing machines.

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

Chemical Emergency Phone Number Poison Control 1-800-222-1222 (24 hour)
Chemtrec (US/CA) 1-800-424-9300 (24 hour)
Chemtrec (Global) 1-703-527-3887 (24 hours)

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

General Questions: XCONG General - 1-800-776-6702 (Monday – Friday, 8:30AM to 6:00PM EST)

2. HAZARDS IDENTIFICATION

ATTENTION

Emergency Overview

Keep out of the reach of children

The product contains no substances which at their given concentration, are considered to be hazardous to health

Potential Health Effects

See Section 11 for additional Toxicological information.

Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Do not taste or swallow.

Eyes May cause slight irritation. Avoid contact with eyes.

Skin Substance may cause slight skin irritation.

Inhalation No known hazard by inhalation.

Chronic Effects No known effect based on information supplied.

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 % |
|--|------------|----------|
| ALCOHOLS, C12-16, ETHOXYLATED | 68551-12-2 | 7-13 |
| BENZENESULFONIC ACID, C10-16-ALKYL DERIVATIVES, SODIUM SALTS | 68081-81-2 | 1 - 5 % |

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 | Consult a physician. |
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| Skin contact | Wash skin with soap and water. |
| Inhalation | Move to fresh air. |
| Ingestion | Rinse mouth. Do NOT induce vomiting. Call a physician or Poison Control Center immediately. |
| Notes to physician | Treat symptomatically. |

5. FIRE-FIGHTING MEASURES

| | | | | |
|--|--|-----------------------|--------------------------|--|
| Flammable Properties | Not flammable. | | | |
| Flash point | > 201 °F / > 94 °C | | | |
| Flammability Limits in Air | No information available | | | |
| 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 | No information available | | | |
| Upper | 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 0 | Flammability 1 | Stability 0 | Physical and chemical hazards - |
| HMIS | Health hazard 0 | Flammability 1 | Physical Hazard 0 | Personal protection - |

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|--|
| Personal precautions | Ensure adequate ventilation. |
| Environmental precautions | Try to prevent the material from entering drains or water courses. |

| | |
|--------------------------------|--|
| Methods for Containment | Prevent further leakage or spillage if safe to do so. |
| Methods for cleaning up | Use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other noncombustible absorbent material. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly. |
| Other information | Not applicable. |

7. HANDLING AND STORAGE

| | |
|--|--|
| Advice on safe handling | Handle in accordance with good industrial hygiene and safety practice. |
| Technical measures/Storage conditions | 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 |
|-------------------------|---|---|---|
| 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

No protective equipment is needed under normal use conditions

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 Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-----------------------------------|------------------------------|------------------------------------|--------------------------|
| Physical state | liquid | Appearance | CLEAR LIQUID |
| Color | colorless | Odor | ORIGINAL |
| Odor Threshold | No information available | pH | 7.700 pH. |
| Specific Gravity | 1.040 SPECIFIC GRAVITY - 20C | Density | No data available |
| Viscosity, kinematic | 550.000 cps viscosity | 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 | 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 gastrointestinal irritation, nausea, vomiting and diarrhea. Do not taste or swallow. |
| Eye contact | May cause slight irritation. Avoid contact with eyes. |
| 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 |
|--|--------------------|-----------------------|-----------------------|
| ALCOHOLS, C12-16, ETHOXYLATED | 1700 mg/kg (Rat) | 2501 mg/kg (Rat) | 11.1 mg/L (Rat) 4 h |
| BENZENESULFONIC ACID, C10-16-ALKYL DERIVATIVES, SODIUM SALTS | 1000 mg/kg (Rat) | 1000 mg/kg (Rabbit) | |

Chronic toxicity

| | |
|-------------------------------|--|
| Chronic toxicity | No known effect based on information supplied. May produce an allergic reaction. |
| Carcinogenicity | Contains no ingredients above reportable quantities listed as a carcinogen |
| 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

| | |
|--------------------------------------|---|
| 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 Waste Status

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

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies

DSL -

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 | No |
| 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 does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

| Chemical Name | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|-------------------|---------------|------------|--------------|----------|--------------|
| Magnesium Nitrate | X | X | X | 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

Non-controlled

16. OTHER INFORMATION

Prepared By Sun Products Corporation
Regulatory Affairs

Revision Date 08-Jul-2014
Revision Note No data available.

Status 0
Product code 197004685
PROTYP E

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