

Material Safety Data Sheet

Revision Date 08-Jul-2014 Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Label Name

UPC Code

Product Type

Recommended Use

96619126453 FABRIC CLEANING LIQUID

Laundry detergent liquid for clothes washing machines.

Kirkland Signature Liquid Laundry Detergent - Free & Clear HE 194oz

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
May cause adverse kidney effects
May cause central nervous system depression

Potential Health Effects

See Section 11 for additional Toxicological information.

Ingestion 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 May be harmful if inhaled.

Chronic Effects Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic

beverage. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage. May cause adverse liver effects. Contains a known or

suspected reproductive toxin.

Aggravated Medical Conditions Preexisting eye disorders. Kidney disorders. Skin disorders. Respiratory disorders. Central

nervous system. Blood disorders. Liver disorders. Overexposure may cause female and

male reproductive disorder(s). Reproductive toxicity.

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 %
C12-C15 Alcohol Ethoxylate	68131-39-5	10-30
BENZENESULFONIC ACID, C10-16-ALKYL DERIVATIVES, SODIUM SALTS	68081-81-2	1 - 5 %
Ethyl alcohol	64-17-5	1 - 5 %
TRIETHANOLAMINE	102-71-6	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 If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do

not get in eyes, on skin, or on clothing.

Eye contact 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. If symptoms

persist, call a physician.

Skin contact Consult a physician if necessary. Wash off immediately with soap and plenty of water while

removing all contaminated clothes and shoes.

Inhalation Move to fresh air. Consult a physician. If breathing is irregular or stopped, administer

artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth

resuscitation.

Ingestion Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Do NOT induce

vomiting.

Notes to physician Treat symptomatically.

Protection of First-aidersUse personal protective equipment.

5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable.

Flash point $> 201 \, ^{\circ}\text{F} \, / > 94 \, ^{\circ}\text{C}$

Flammability Limits in Air

Upper Flammability LimitNo information availableLower Flammability LimitNo information available

Autoignition temperature No information available

Hazardous Combustion Products None.

Explosive properties No information available

Explosion Limits

UpperNo information availableLower (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

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

Precautions for Firefighters (approved or equivalent) and full protective gear.

NFPA Health hazard 1 Flammability 1 Stability 0 Physical and chemical

hazards -

HMIS Health hazard 1 Flammability 1 Physical Hazard 0 Personal protection -

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Ensure adequate ventilation.

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. Do not flush into

surface water or sanitary sewer system.

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

Methods for cleaning up Cover liquid spill with sand, earth or other noncombustible absorbent material. Use

personal protective equipment. Dam up. 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 Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Remove

and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. Do not

eat, drink or smoke when using this product.

Technical measures/Storage

conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl alcohol	STEL: 1000 ppm	TWA: 1000 ppm	IDLH: 3300 ppm
64-17-5		TWA: 1900 mg/m ³	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1900 mg/m ³
		(vacated) TWA: 1900 mg/m ³	
TRIETHANOLAMINE	TWA: 5 mg/m ³		
102-71-6	_		
Subtilisin	Ceiling: 0.00006 mg/m ³ as	(vacated) STEL: 0.00006 mg/m ³	STEL: 0.00006 mg/m ³ 60 min
9014-01-1	crystalline active enzyme	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
Skin and body protection
Respiratory protection

Tightly fitting safety goggles

No protective equipment is needed under normal use conditions.

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 Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical stateliquidAppearanceCLEAR LIQUIDColorcolorlessOdorFREE OF PERFUME

Odor ThresholdNo information availablepH7.800 pH.Specific Gravity1.062 SPECIFIC GRAVITY -DensityNo data available

20C

Viscosity, kinematic600.000 cps viscosityFlash point> 201 °F / > 94 °CMethodNo information availableAutoignition temperatureNo 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 density No data available Vapor pressure No data available

VOC Content(%) 3.04337000846863

Flammability Limits in Air Explosion Limits

Upper Flammability LimitNo data availableUpperNo data availableLower Flammability LimitNo data availableLower (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
C12-C15 Alcohol Ethoxylate	= 2 g/kg (Rat)	2 g/kg (Rabbit)	
BENZENESULFONIC ACID, C10-16-ALKYL DERIVATIVES, SODIUM SALTS	1000 mg/kg (Rat)	1000 mg/kg (Rabbit)	
Ethyl alcohol	= 7060 mg/kg (Rat)		= 124.7 mg/L (Rat) 4 h
TRIETHANOLAMINE	= 4190 mg/kg (Rat)	> 20 mL/kg (Rabbit) > 16 mL/kg (Rat)	

Chronic toxicity

Chronic toxicity Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic

beverage. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage. May cause adverse liver effects. Contains a known or

suspected reproductive toxin.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethyl alcohol	A3	Group 1	Known	X
TRIETHANOLAMINE		Group 3		

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

OSHA: (Occupational Safety & Health Administration)

X - Present

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 Eyes, Kidney, Respiratory system, Skin, Blood, Central nervous system, Liver,

Reproductive system

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
Ethyl alcohol		100: 96 h Pimephales	EC50 = 34634 mg/L 30 min	2: 48 h Daphnia magna
		promelas mg/L LC50 static	EC50 = 35470 mg/L 5 min	mg/L EC50 Static 9268 -
		12.0 - 16.0: 96 h	_	14221: 48 h Daphnia magna
		Oncorhynchus mykiss mL/L		mg/L LC50
		LC50 static 13400 - 15100:		
		96 h Pimephales promelas		
		mg/L LC50 flow-through		
TRIETHANOLAMINE	169: 96 h Desmodesmus	10600 - 13000: 96 h		
	subspicatus mg/L EC50 216:	Pimephales promelas mg/L		
	72 h Desmodesmus	LC50 flow-through 450 -		
	subspicatus mg/L EC50	1000: 96 h Lepomis		
		macrochirus mg/L LC50		
		static 1000: 96 h Pimephales		
		promelas mg/L LC50 static		

Persistence and degradabilityNo data is available on the product itself.

Bioaccumulation Not likely to bioaccumulate.

Mobility Not Determined .

Chemical Name	log Pow
Ethyl alcohol	-0.32

TRIETHANOLAMINE	-2.53
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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.

Chemical Name	California Hazardous Waste Status
Ethyl alcohol	Toxic
	Ignitable

14. TRANSPORT INFORMATION

DOTNot regulatedTDGNot regulatedMEXNot regulatedIATANot regulatedIMDGNot regulated

15. REGULATORY INFORMATION

International Inventories

TSCA - DSL -

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	
Ethyl alcohol	Carcinogen	
· ·	Developmental	

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ethyl alcohol	X	X	X	X	
TRIETHANOLAMINE	X	X	X		
Magnesium Nitrate	Х	X	Х	Х	

Mexico

Mexico - Grade

Slight risk, Grade 1

Chemical Name	Carcinogen Status	Exposure Limits
Ethyl alcohol		Mexico: TWA 1000 ppm
, i		Mexico: TWA 1900 mg/m ³

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



16. OTHER INFORMATION

Prepared By Sun Products Corporation

Regulatory Affairs

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

Status

Product code 197004340

PROTYP

Disclaime

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.

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End of Material Safety Data Sheet