# **Material Safety Data Sheet**



## Revision Date 19-Sep-2012

Version 1

## **1. PRODUCT AND COMPANY IDENTIFICATION**

Product Label Name Product name UPC Code Recommended Use	Kirkland Signature Single Dose Laundry Pacs - Fresh 90ct KIRKLAND SIGNATURE 1/90CT SDL FRESH 10096619674982 Laundry single dose liquid pack for clothes washing machines.			
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:	General - 1-800-776-6702 (Monday – Friday, 8:30AM to 6:00PM EST)			
2. HAZARDS IDENTIFICATION				
CAUTION!				
	Emergency Overview Harmful if swallowed May cause eye irritation Keep out of the reach of children			

May cause central nervous system depression

#### 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	Irritating to eyes. May cause redness, itching, and pain.	
Skin	Substance may cause slight skin irritation. Prolonged or repeated contact may dry skin and cause irritation.	
Inhalation	May be harmful if inhaled. May cause irritation of respiratory tract.	
Chronic Effects	No known effect based on information supplied.	
Aggravated Medical Conditions	Central nervous system. Preexisting eye disorders. Skin disorders. Respiratory disorders.	

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	30-60
BENZENESULFONIC ACID, C10-16-ALKYL DERIVATIVES, SODIUM SALTS	68081-81-2	10-30
Propylene Glycol	57-55-6	7-13
Ethanolamine	141-43-5	1 - 5 %
DISODIUM DISTYRYLBIPHENYL DISULFONATE	27344-41-8	0.1 - 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	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 Upper Flammability Limit Lower Flammability Limit	No information available No information available			
Autoignition temperature	No information available			
Hazardous Combustion Products	None.			
Explosive properties	No information available			
Explosion Limits Upper (UEL) Lower (LEL)	No information available 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 FirefightersAs in any fire, wear self-contained breathing apparatus pres (approved or equivalent) and full protective gear.				re-demand, MSHA/NIOSH	
NFPA	Health Haza	ard 2	Flammability 1	Stability 0	Physical and chemical hazards -
HMIS	Health Haza	ard 2	Flammability 1	Physical Hazard 0	Personal protection -
6. ACCIDENTAL RELEASE MEASURES					
Personal precautions		Ensure ade	equate ventilation.		
Environmental precaut	ions	Try to prevent the material from entering drains or water courses.			
Methods for Containme	ent	Prevent further leakage or spillage if safe to do so.			
Methods for cleaning u	ıp	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 handlin	g	Handle in a	accordance with good in	dustrial hygiene and safety	practice.
Technical measures/St conditions	orage	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
Ethanolamine	STEL: 6 ppm	TWA: 3 ppm	IDLH: 30 ppm
141-43-5	TWA: 3 ppm	TWA: 6 mg/m <sup>3</sup>	TWA: 3 ppm
		(vacated) TWA: 3 ppm	TWA: 8 mg/m <sup>3</sup>
		(vacated) TWA: 8 mg/m <sup>3</sup>	STEL: 6 ppm
		(vacated) STEL: 6 ppm	STEL: 15 mg/m <sup>3</sup>
		(vacated) STEL: 15 mg/m <sup>3</sup>	
Subtilisin	Ceiling: 0.00006 mg/m <sup>3</sup> as	(vacated) STEL: 0.00006 mg/m <sup>3</sup>	STEL: 0.00006 mg/m <sup>3</sup> 60 min
9014-01-1	crystalline active enzyme	60 min	Subtilisins

NIOSH IDLH: Immediately Dangerous to Life or Health

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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	No protective equipment is needed under normal use conditions 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	Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Odor

pН

Physical state
Color
Odor Threshold
Specific Gravity

Viscosity, kinematic Method Decomposition temperature Melting point Water solubility Vapor pressure VOC Content(%)

Flammability Limits in Air Upper Flammability Limit no data available Lower Flammability Limit no data available

liquid blue No information available 1.02 SPECIFIC GRAVITY -25C 160 cps No information available no data available no data available Soluble in water no data available 16.35

Density Flash point Autoignition temperature Boiling point/boiling range Freezing Point Evaporation rate Vapor density

Explosion Limits Upper (UEL) Lower (LEL) LIQUID PACK ORIGINAL 7.6 no data available

> 201 °F / > 94 °C No information available no data available no data available no data available No data available

no data available 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
/	co/cioicy

LD50 Dermal:

Ingestion	Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Do not taste or swallow.
Eye contact	Irritating to eyes. Avoid contact with eyes.
Skin contact	Causes skin irritation. Prolonged contact may cause redness and irritation. Prolonged or repeated contact may dry skin and cause 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.
LD50 Oral:	> 2000 mg/kg (rat)

> 2	2000	mg/kg
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Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
C12-C15 Alcohol Ethoxylate	2 g/kg (Rat)		
BENZENESULFONIC ACID, C10-16-ALKYL DERIVATIVES, SODIUM SALTS	1000 mg/kg(Rat)	730 mg/kg(Rabbit)	

#### KIRKLAND SIGNATURE 1/90CT SDL FRESH

Propylene Glycol	20000 mg/kg (Rat)	20800 mg/kg (Rabbit)	
Ethanolamine	1720 mg/kg (Rat)	1 mL/kg (Rabbit)1025 mg/kg ( Rabbit)	
DISODIUM DISTYRYLBIPHENYL DISULFONATE	2000 mg/kg (Rat)	2500 mg/kg (Rabbit)1 g/kg (Rat )	3.6 mg/L (Rat)4 h

## 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	Central nervous system, Eyes, Respiratory system, Skin
Interactions with Other Chemicals	Use of alcoholic beverages may enhance toxic effects

# 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
Propylene Glycol	19000: 96 h Pseudokirchneriella subcapitata mg/L EC50	51600: 96 h Oncorhynchus mykiss mg/L LC50 static 41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static 51400: 96 h Pimephales promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50		10000: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50 Static
Ethanolamine	15: 72 h Desmodesmus subspicatus mg/L EC50	227: 96 h Pimephales promelas mg/L LC50 flow-through 3684: 96 h Brachydanio rerio mg/L LC50 static 300 - 1000: 96 h Lepomis macrochirus mg/L LC50 static 114 - 196: 96 h Oncorhynchus mykiss mg/L LC50 static 200: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	EC50 = 110 mg/L 17 h EC50 = 12200 mg/L 2 h EC50 = 13.7 mg/L 30 min	65: 48 h Daphnia magna mg/L EC50
DISODIUM DISTYRYLBIPHENYL DISULFONATE	10: 72 h Desmodesmus subspicatus mg/L EC50 10.0 - 11.0: 96 h Desmodesmus subspicatus mg/L EC50	76: 96 h Brachydanio rerio mg/L LC50 static		1000: 48 h Daphnia magna mg/L EC50

#### Persistence and degradability

No data is available on the product itself.

#### **Bioaccumulation**

Not likely to bioaccumulate. Not Determined .

Mobility

Chemical Name log Pow			
Ethanolamine		-1.91	
	13. DISPOSAL CO	ONSIDERATIONS	
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		
	14. TRANSPOR	<b>FINFORMATION</b>	
DOT	Not regulated		
TDG	Not regulated		
MEX	Not regulated		
IATA	Not regulated		
IMDG	Not regulated		
15. REGULATORY INFORMATION			
International Inventories TSCA DSL	Complies 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	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
Propylene Glycol		Х	Х		
Ethanolamine	Х	Х	Х	Х	

#### Mexico

#### Mexico - Grade

Slight risk, Grade 1

Chemical Name	Carcinogen Status	Exposure Limits
Ethanolamine		Mexico: TWA 3 ppm
		Mexico: TWA 8 mg/m <sup>3</sup>
		Mexico: STEL 6 ppm
		Mexico: STEL 15 mg/m <sup>3</sup>

#### 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 D2B Toxic materials Non-controlled



## **16. OTHER INFORMATION**

**Prepared By** 

Revision Date Revision Note Status PROTYP Sun Products Corporation Regulatory Affairs

19-Sep-2012 no data available. -5 F50

#### 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