



CHURCH & DWIGHT CO., INC.

CONSUMER PRODUCTS - SPECIALITY PRODUCTS

MATERIAL SAFETY DATA SHEET

Product Code(s) MSDS-097

Revision Date 08-Jun-2011

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Arm & Hammer Plus OxyClean Liquid Detergent; Arm & Hammer Plus OxiClean MAX Liquid Detergent; Arm & Hammer Plus OxiClean HE Liquid Detergent, ARM & HAMMER Plus OxiClean HE FREE

Product Code(s) MSDS-097

Recommended Use Laundry detergent

Product Type Mixture

Synonyms Detergent

Manufactured by Church & Dwight Co., Inc.
469 N. Harrison Street
Princeton, NJ 08543

Emergency Telephone Number
1-800-424-9300

**Poison Information Center
Telephone Number**
1-888-234-1828

Telephone inquiry
1-800-524-1328

For further information, please also consult our Internet site www.churchdwright.com

2. HAZARDS IDENTIFICATION

Emergency Overview

May cause skin and eye irritation
Enzymes may cause an allergic reaction to sensitized individuals.

Appearance Blue or colorless

Physical State Liquid

Odor As per label

This product is labeled in accordance with regulations administered by the Consumer Product Safety Commission (CPSC). However, the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. Therefore, the requirements of the Occupational Safety and Health Administration applicable to this MSDS differ from the labeling requirements of the CPSC, and this MSDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

HMIS

Health Hazard 2

Flammability 0

Reactivity 0

Potential Health Effects

Principle Routes of Exposure

Eye contact, Skin contact, Inhalation.

Acute Toxicity

Eyes

Severe irritant.

Skin

Irritating to skin. Prolonged or repeated contact may dry skin and cause irritation.

Inhalation

If mists are generated, they may cause mucous membrane and upper respiratory irritation. Enzymes may cause an allergic reaction to sensitized individuals..

Ingestion

Practically non-toxic due to high level of water dilution. Ingestion may cause irritation to mucous membranes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear protective gloves/clothing and eye/face protection. If spilled, take caution, as material can cause surfaces to become very slippery.
Methods for Containment	Close off area of spill to traffic and use caution during cleanup.
Methods for Cleaning Up	Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. Contain spill and pick up with absorbent material.

7. HANDLING AND STORAGE

Handling	If spilled, take caution, as material can cause surfaces to become very slippery. Keep containers closed and in the original container..
Storage	Keep from freezing. Keep in properly labeled containers. Store at ambient conditions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerin 56-81-5		TWA: 15 mg/m ³ TWA: 5 mg/m ³ (vacated) TWA: 10 mg/m ³ (vacated) TWA: 5 mg/m ³	
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³
Subtilisins (proteolytic enzymes) 9014-01-1		(vacated) STEL: 0.00006 mg/m ³	STEL: 0.00006 mg/m ³

Engineering Measures	None under normal use conditions. Showers, eyewash stations, and ventilation systems.
Personal Protective Equipment	
Eye/Face Protection	Goggles recommended for handling bulk liquid and for cleaning up spills..
Skin and Body Protection	Clean full cover clothing is sufficient under normal exposure conditions.. Protective gloves. This product contains ENZYMES which may cause an allergic reaction to sensitized individuals.
Respiratory Protection	None required under normal usage. This product contains enzymes which may cause an allergic reaction to sensitized individuals.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	Blue or colorless	Odor	As per label
Odor Threshold	No information available	Physical State	Liquid
pH	8.5-9.5		
Flash Point	N/A	Autoignition Temperature	No information available
Decomposition Temperature	No information available	Boiling Point/Range	No data available
Melting Point/Range	No information availableLiquid at room temperature		
Flammability Limits in Air	Not flammable	Explosion Limits	Not applicable
Specific Gravity	No data available	Solubility	Completely soluble
Vapor Pressure	Not applicable	Vapor Density	No data available
VOC Content	Not applicable	Actual VOC (lb/gal)	10% as low v.p.organic compounds
Viscosity	200-500 cps		

10. STABILITY AND REACTIVITY

Stability	Stable.
Incompatible Products	None known.
Conditions to Avoid	None known.
Hazardous Decomposition Products	Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides.
Hazardous Reactions	None under normal processing.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information Causes skin, eye and respiratory tract irritation.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	90 mL/kg (Rat)		
Alcohol Ethoxy Sulfate	1600 mg/kg (Rat)		
Alcohol Ethoxylate	2 g/kg (Rat)		
Glycerin	12600 mg/kg (Rat)	21900 mg/kg (Rat)	570 mg/m ³ (Rat) 1 h
Oleic Acid	25 g/kg (Rat)		
Sodium hydroxide		1350 mg/kg (Rabbit)	
Subtilisins (proteolytic enzymes)	3700 mg/kg (Rat)		

Chronic Toxicity

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Chronic Toxicity None known.

Sensitization This product contains enzymes that may cause an allergic reaction to sensitized individuals.

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	Microtox	Daphnia Magna (Water Flea)
Glycerin		LC50 51-57 ml/L Oncorhynchus mykiss 96 h		EC50 > 500 mg/L 24 h
Oleic Acid		LC50= 205 mg/L Pimephales promelas 96 h		
Sodium hydroxide		LC50= 45.4 mg/L Oncorhynchus mykiss 96 h		

Persistence and Degradability Product is biodegradable

Bioaccumulation/Accumulation Not likely to bioaccumulate

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method 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 Dispose of in accordance with local regulations

Chemical Name	California Hazardous Waste Status
Sodium hydroxide	Corrosive Toxic Corrosive

14. TRANSPORT INFORMATION

DOT Not regulated
TDG Not regulated
ICAO Not regulated
IATA Not regulated
IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	EIN/ELN	ENCS	IECSC	KECL	PICCS	AICS
Water	Present	X	X	-	X	KE-35400	X	-
Alcohol Ethoxy Sulfate	XU	X	-	(7)-120	-	-	X	-
Alcohol Ethoxylate	XU	X	X	-	-	-	X	-
Alkylbenzenesulfonic acid (DBSA)	-	-	-	-	-	-	-	-
Glycerin	Present	X	X	(7)-338 (2)-242	X	-	X	-
Oleic Acid	Present	X	X	(2)-975 (2)-609	-	-	X	-
Disodium octaborate tetrahydrate-Inorganic borates	-	-	-	-	-	-	-	-
Sodium hydroxide	Present	X	X	1-410; 2-1972	X	KE-31487	X	X
Subtilisins (proteolytic enzymes)	XU	X	X	-	X	KE-32313	X	X

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

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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)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide	1000 lb			X

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

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Glycerin	56-81-5	1-5		Group II		

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

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Sodium hydroxide	1000 lb	

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
Glycerin	X	X	X		X
Oleic Acid	-	-	X	-	X
Sodium hydroxide	X	X	X		X

International Regulations

Mexico - Grade

No information available.

Chemical Name	Carcinogen Status	Exposure Limits
Glycerin		Mexico: TWA= 10 mg/m ³
Sodium hydroxide		Mexico: Ceiling= 2 mg/m ³

Canada

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Detergent; Arm & Hammer Plus
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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

Not determined

16. OTHER INFORMATION

Prepared By Church & Dwight Co. Inc.
Product Stewardship
469 North Harrison Street
Princeton, New Jersey 08543
609.279.7705

Revision Date 08-Jun-2011

Reason for Revision No information available

Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of MSDS