



ARM & HAMMER™ Liquid Laundry Detergent (NA GHS 2015)

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

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SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: ARM & HAMMER™ Liquid Laundry Detergent (NA GHS 2015)

Product Synonyms: ARM & HAMMER™ Liquid Laundry Detergent Tropical Paradise, ARM & HAMMER™ Liquid Laundry Detergent Lavender and Linen, ARM & HAMMER™ Liquid Laundry Detergent Sensitive Skin Plus Scent, ARM & HAMMER™ Liquid Laundry Detergent Clean Burst

Product Code: 42015527, 42015523, 42015522, 42015484

Intended Use of the Product

Use Of The Substance/Mixture: Laundry Detergent.

Name, Address, and Telephone of the Responsible Party

Company

Church & Dwight Co. Inc.

500 Charles Ewing Blvd

Ewing Township, NJ 08628

T 1-800-524-1328

www.churchdwight.com

Emergency Telephone Number

Emergency Number : For Medical Emergency: 1-888-234-1828 (USA and Canada), 952-853-1925 (Outside USA and Canada)

For Chemical Emergency: ChemTel LLC (800)255-3924 (North America) +1 (813)248-0585 (International)

SECTION 2: HAZARDS IDENTIFICATION

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

Classification of the Substance or Mixture

GHS-US/CA Classification

Skin corrosion/irritation Category 2 H315

Serious eye damage/eye irritation Category 2A H319

Skin sensitization, Category 1 H317

Hazardous to the aquatic environment - Acute Hazard Category 2 H401

Hazardous to the aquatic environment - Chronic Hazard Category 3 H412

Label Elements

GHS-US/CA Labeling

Hazard Pictograms (GHS-US/CA)



GHS07

Signal Word (GHS-US/CA)

: Warning

Hazard Statements (GHS-US/CA)

: H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H401 - Toxic to aquatic life.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary Statements (GHS-US/CA)

: P261 - Avoid breathing vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

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P280 - Wear protective gloves, protective clothing, and eye protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 - Specific treatment (see section 4 on this SDS).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

Unknown Acute Toxicity (GHS-US/CA)

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	Product Identifier	% *	GHS Ingredient Classification
Alcohols, C12-15, ethoxylated	(CAS-No.) 68131-39-5	4 – 7.1	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
Alcohols, C10-16, ethoxylated	(CAS-No.) 68002-97-1	3.6 – 6.9	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400
Alcohols, C12-16, ethoxylated	(CAS-No.) 68551-12-2	3.6 – 6.9	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 2, H401
Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C10-16-alkyl ethers, sodium salts	(CAS-No.) 68585-34-2	5.37 – 5.74	Skin Irrit. 2, H315 Eye Dam. 1, H318
Disodium carbonate	(CAS-No.) 497-19-8	1.75-2.5	Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2A, H319
D-Limonene	(CAS-No.) 5989-27-5	≤ 0.74	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Benzenesulfonic acid, mono-C10-16-alkyl derivatives, sodium salts	(CAS-No.) 68081-81-2	0.17-0.5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl-	(CAS-No.) 80-54-6	≤ 0.41	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Repr. 2, H361 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
4-tert-Butylcyclohexyl acetate	(CAS-No.) 32210-23-4	≤ 0.18	Skin Sens. 1B, H317 Aquatic Acute 2, H401

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			Aquatic Chronic 2, H411
Benzyl acetate	(CAS-No.) 140-11-4	≤ 0.064	Flam. Liq. 4, H227 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	(CAS-No.) 128-37-0	≤ 0.014	Eye Irrit. 2B, H320 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Comb. Dust
Diphenyl oxide	(CAS-No.) 101-84-8	≤ 0.014	Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
.alpha.-Pinene	(CAS-No.) 80-56-8	≤ 0.014	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

SECTION 4: FIRST AID MEASURES

Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Immediately drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

Eye Contact: Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting. Rinse mouth. Obtain medical attention.

Most Important Symptoms and Effects Both Acute and Delayed

General: Causes skin irritation. Causes serious eye irritation.

Inhalation: Prolonged exposure may cause irritation.

Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic reaction in sensitive individuals.

Eye Contact: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: May produce an allergic reaction.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Will not support combustion unless the water has evaporated.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

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Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Sulfur oxides. Sodium oxides. Toxic fumes are released. Irritating fumes.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid breathing (vapor, mist, spray). Avoid all contact with skin, eyes, or clothing.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills and dispose of waste safely. Wipe up spills with disposable towels. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Precautions for Safe Handling: Avoid breathing vapors, mist, spray. Avoid contact with skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene Measures: Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from extremely high or low temperatures, direct sunlight, heat, incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

Specific End Use(s)

Laundry Detergent.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

D-Limonene (5989-27-5)		
USA AIHA	WEEL TWA [ppm]	30 ppm
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (128-37-0)		
USA ACGIH	ACGIH OEL TWA	2 mg/m ³ (inhalable fraction and vapor)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL (TWA)	10 mg/m ³
Alberta	OEL TWA	10 mg/m ³
British Columbia	OEL TWA	2 mg/m ³ (inhalable; inhalable aerosol and vapour)
Manitoba	OEL TWA	2 mg/m ³ (inhalable fraction and vapor)
New Brunswick	OEL TWA	10 mg/m ³
Newfoundland & Labrador	OEL TWA	2 mg/m ³ (inhalable fraction and vapor)

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Nova Scotia	OEL TWA	2 mg/m ³ (inhalable fraction and vapor)
Nunavut	OEL STEL	4 mg/m ³ (inhalable fraction and vapour)
Nunavut	OEL TWA	2 mg/m ³ (inhalable fraction and vapour)
Northwest Territories	OEL STEL	4 mg/m ³ (inhalable fraction and vapour)
Northwest Territories	OEL TWA	2 mg/m ³ (inhalable fraction and vapour)
Ontario	OEL TWA	2 mg/m ³ (inhalable fraction and vapor)
Prince Edward Island	OEL TWA	2 mg/m ³ (inhalable fraction and vapor)
Québec	VEMP (OEL TWA)	2 mg/m ³ (inhalable fraction and vapour)
Saskatchewan	OEL STEL	4 mg/m ³ (inhalable fraction and vapour)
Saskatchewan	OEL TWA	2 mg/m ³ (inhalable fraction and vapour)
Yukon	OEL STEL	20 mg/m ³
Yukon	OEL TWA	10 mg/m ³
Benzyl acetate (140-11-4)		
USA ACGIH	ACGIH OEL TWA [ppm]	10 ppm
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
Alberta	OEL TWA	61 mg/m ³
Alberta	OEL TWA [ppm]	10 ppm
British Columbia	OEL TWA [ppm]	10 ppm
Manitoba	OEL TWA [ppm]	10 ppm
New Brunswick	OEL TWA	61 mg/m ³
New Brunswick	OEL TWA [ppm]	10 ppm
Newfoundland & Labrador	OEL TWA [ppm]	10 ppm
Nova Scotia	OEL TWA [ppm]	10 ppm
Nunavut	OEL STEL [ppm]	20 ppm
Nunavut	OEL TWA [ppm]	10 ppm
Northwest Territories	OEL STEL [ppm]	20 ppm
Northwest Territories	OEL TWA [ppm]	10 ppm
Ontario	OEL TWA [ppm]	10 ppm
Prince Edward Island	OEL TWA [ppm]	10 ppm
Québec	VEMP (OEL TWA) [ppm]	10 ppm
Saskatchewan	OEL STEL [ppm]	20 ppm
Saskatchewan	OEL TWA [ppm]	10 ppm
Diphenyl oxide (101-84-8)		
USA ACGIH	ACGIH OEL TWA [ppm]	1 ppm (vapor)
USA ACGIH	ACGIH OEL STEL [ppm]	2 ppm (vapor fraction)
USA OSHA	OSHA PEL (TWA) [1]	7 mg/m ³ (vapor)
USA OSHA	OSHA PEL (TWA) [2]	1 ppm (vapor)
USA NIOSH	NIOSH REL (TWA)	7 mg/m ³ (vapor)
USA NIOSH	NIOSH REL TWA [ppm]	1 ppm (vapor)
USA IDLH	IDLH [ppm]	100 ppm (vapor)
Alberta	OEL STEL	14 mg/m ³ (vapour)
Alberta	OEL STEL [ppm]	2 ppm (vapour)
Alberta	OEL TWA	7 mg/m ³ (vapour)
Alberta	OEL TWA [ppm]	1 ppm (vapour)
British Columbia	OEL STEL [ppm]	2 ppm (vapour)
British Columbia	OEL TWA [ppm]	1 ppm (vapour)
Manitoba	OEL STEL [ppm]	2 ppm (vapor fraction)
Manitoba	OEL TWA [ppm]	1 ppm (vapor)
New Brunswick	OEL STEL	14 mg/m ³ (vapor)
New Brunswick	OEL STEL [ppm]	2 ppm (vapor)
New Brunswick	OEL TWA	7 mg/m ³ (vapor)

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New Brunswick	OEL TWA [ppm]	1 ppm (vapor)
Newfoundland & Labrador	OEL STEL [ppm]	2 ppm (vapor fraction)
Newfoundland & Labrador	OEL TWA [ppm]	1 ppm (vapor)
Nova Scotia	OEL STEL [ppm]	2 ppm (vapor fraction)
Nova Scotia	OEL TWA [ppm]	1 ppm (vapor)
Nunavut	OEL STEL [ppm]	2 ppm (vapour)
Nunavut	OEL TWA [ppm]	1 ppm (vapour)
Northwest Territories	OEL STEL [ppm]	2 ppm (vapour)
Northwest Territories	OEL TWA [ppm]	1 ppm (vapour)
Ontario	OEL STEL [ppm]	2 ppm (vapor)
Ontario	OEL TWA [ppm]	1 ppm (vapor)
Prince Edward Island	OEL STEL [ppm]	2 ppm (vapor fraction)
Prince Edward Island	OEL TWA [ppm]	1 ppm (vapor)
Québec	VECD (OEL STEL)	14 mg/m ³ (vapour)
Québec	VECD (OEL STEL) [ppm]	2 ppm (vapour)
Québec	VEMP (OEL TWA)	7 mg/m ³ (vapour)
Québec	VEMP (OEL TWA) [ppm]	1 ppm (vapour)
Saskatchewan	OEL STEL [ppm]	2 ppm (vapour)
Saskatchewan	OEL TWA [ppm]	1 ppm (vapour)
Yukon	OEL STEL	14 mg/m ³ (vapour)
Yukon	OEL STEL [ppm]	2 ppm (vapour)
Yukon	OEL TWA	7 mg/m ³ (vapour)
Yukon	OEL TWA [ppm]	1 ppm (vapour)

.alpha.-Pinene (80-56-8)		
USA ACGIH	ACGIH OEL TWA [ppm]	20 ppm (Turpentine and selected monoterpenes)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen, dermal sensitizer
Alberta	OEL TWA	111 mg/m ³ (Turpentine and selected monoterpenes)
Alberta	OEL TWA [ppm]	20 ppm (Turpentine and selected monoterpenes)
British Columbia	OEL TWA [ppm]	20 ppm (Turpentine and selected monoterpenes)
Manitoba	OEL TWA [ppm]	20 ppm (Turpentine and selected monoterpenes)
Newfoundland & Labrador	OEL TWA [ppm]	20 ppm (Turpentine and selected monoterpenes)
Nova Scotia	OEL TWA [ppm]	20 ppm (Turpentine and selected monoterpenes)
Nunavut	OEL STEL [ppm]	30 ppm (Turpentine and selected monoterpenes)
Nunavut	OEL TWA [ppm]	20 ppm (Turpentine and selected monoterpenes)
Northwest Territories	OEL STEL [ppm]	30 ppm (Turpentine and selected monoterpenes)
Northwest Territories	OEL TWA [ppm]	20 ppm (Turpentine and selected monoterpenes)
Ontario	OEL TWA [ppm]	20 ppm (Turpentine and selected monomers)
Prince Edward Island	OEL TWA [ppm]	20 ppm (Turpentine and selected monoterpenes)
Québec	VEMP (OEL TWA)	112 mg/m ³ (Turpentine and certain monoterpenes)
Québec	VEMP (OEL TWA) [ppm]	20 ppm (Turpentine and certain monoterpenes)
Saskatchewan	OEL STEL [ppm]	30 ppm (Turpentine and selected monoterpenes)
Saskatchewan	OEL TWA [ppm]	20 ppm (Turpentine and selected monoterpenes)

Exposure Controls

Appropriate Engineering Controls: For occupational/workplace settings: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

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Personal Protective Equipment: For occupational/workplace settings and bulk quantities: Gloves. Protective clothing. Protective goggles.



Materials for Protective Clothing: For occupational/workplace settings: Chemically resistant materials and fabrics.

Hand Protection: For occupational/workplace settings: Wear chemically resistant protective gloves.

Eye Protection: For occupational/workplace settings: Chemical safety goggles.

Skin and Body Protection: For occupational/workplace settings: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Clear blue
Odor	: Characteristic
Odor Threshold	: No data available
pH	: 11.5 – 12.2
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: Not combustible
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability	: Not applicable
Lower Flammable Limit	: No data available
Upper Flammable Limit	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Density	: 1.03 – 1.06 g/cm ³
Specific Gravity	: No data available
Solubility	: Complete.
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: 250 – 2500 cP

SECTION 10: STABILITY AND REACTIVITY

Reactivity:

Hazardous reactions will not occur under normal conditions.

Chemical Stability:

Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, and incompatible materials.

Incompatible Materials:

Strong acids, strong bases, strong oxidizers.

Hazardous Decomposition Products:

None known.

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SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified

Acute Toxicity (Dermal): Not classified

Acute Toxicity (Inhalation): Not classified

LD50 and LC50 Data:

No additional information available

Skin Corrosion/Irritation: Causes skin irritation. (Studies indicate that this detergent at a pH of 11.5 to 12.2 is not corrosive to skin, steel, or aluminum as defined by the DOT.)

pH: 11.5 – 12.2

Eye Damage/Irritation: Causes serious eye irritation.

pH: 11.5 – 12.2

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis. May cause an allergic reaction in sensitive individuals.

Symptoms/Injuries After Eye Contact: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: May produce an allergic reaction.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Alcohols, C12-15, ethoxylated (68131-39-5)	
LD50 Oral Rat	1600 – 2700 mg/kg
LD50 Dermal Rat	5000 mg/kg
Disodium carbonate (497-19-8)	
LD50 Oral Rat	4090 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat	2300 mg/m ³ (Exposure time: 2 h)
Benzenesulfonic acid, mono-C10-16-alkyl derivatives, sodium salts (68081-81-2)	
ATE US/CA (oral)	1,080.00 mg/kg body weight
D-Limonene (5989-27-5)	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rabbit	> 5 g/kg
Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl- (80-54-6)	
LD50 Oral Rat	1390 mg/kg
LD50 Dermal Rabbit	> 5000 mg/kg
LC50 Inhalation Rat	> 1802 mg/m ³ (Exposure time: 4 h)
4-tert-Butylcyclohexyl acetate (32210-23-4)	
LD50 Oral Rat	3323 – 3885 mg/kg
LD50 Dermal Rabbit	> 5000 mg/kg
ATE US/CA (oral)	3,323.00 mg/kg body weight
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (128-37-0)	
LD50 Oral Rat	> 2930 mg/kg (Species: Sprague-Dawley)
LD50 Dermal Rat	> 2000 mg/kg
Benzyl acetate (140-11-4)	

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LD50 Oral Rat	2490 mg/kg
LD50 Dermal Rabbit	> 5000 mg/kg
Diphenyl oxide (101-84-8)	
LD50 Oral Rat	2450 mg/kg
LD50 Dermal Rabbit	> 7940 mg/kg
.alpha.-Pinene (80-56-8)	
LD50 Oral Rat	> 500 mg/kg
LD50 Dermal Rat	> 5000 mg/kg
Alcohols, C10-16, ethoxylated (68002-97-1)	
ATE US/CA (oral)	500.00 mg/kg body weight
D-Limonene (5989-27-5)	
IARC Group	3
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity.
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (128-37-0)	
IARC Group	3
Benzyl acetate (140-11-4)	
IARC Group	3

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Harmful to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.

Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C10-16-alkyl ethers, sodium salts (68585-34-2)	
EC50 - Crustacea [1]	3.43 g/l (Exposure 48 Hr: Species - Ceriodaphnia dubia (Water flea))
Disodium carbonate (497-19-8)	
LC50 Fish 1	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [1]	265 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	310 – 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
D-Limonene (5989-27-5)	
LC50 Fish 1	0.619 (0.619 – 0.796) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	0.421 mg/l
LC50 Fish 2	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl- (80-54-6)	
EC50 - Crustacea [1]	10.7 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	2.04 mg/l
4-tert-Butylcyclohexyl acetate (32210-23-4)	
LC50 Fish 1	8.6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (128-37-0)	
EC50 - Crustacea [1]	0.48 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Other Aquatic Organisms 2	0.43 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)
NOEC Chronic Fish	0.053 mg/l
NOEC Chronic Crustacea	0.069 mg/l (Species: Daphnia magna)
Benzyl acetate (140-11-4)	
LC50 Fish 1	4 mg/l
NOEC Chronic Fish	0.92 mg/l
Diphenyl oxide (101-84-8)	
LC50 Fish 1	4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 Fish 2	4 – 7.9 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
ErC50 algae	0.58 mg/l
NOEC Chronic Algae	0.32 mg/l

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.alpha.-Pinene (80-56-8)	
LC50 Fish 1	0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	41 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Persistence and Degradability

ARM & HAMMER™ Liquid Laundry Detergent (NA GHS 2015)	
Persistence and Degradability	May cause long-term adverse effects in the environment.

Bioaccumulative Potential

ARM & HAMMER™ Liquid Laundry Detergent (NA GHS 2015)	
Bioaccumulative Potential	Not established.

Disodium carbonate (497-19-8)	
BCF Fish 1	(no bioaccumulation)

D-Limonene (5989-27-5)	
Log POW	4.38 (at 37 °C (at pH 7.2))

Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl- (80-54-6)	
Log POW	4.2 (at 24 °C)

4-tert-Butylcyclohexyl acetate (32210-23-4)	
Log POW	4.8 (at 25 °C)

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (128-37-0)	
BCF Fish 1	230 – 2500

Log POW	5.1
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Benzyl acetate (140-11-4)	
Log POW	1.96 (at 25 °C (at pH 7))

Diphenyl oxide (101-84-8)	
BCF Fish 1	(470 dimensionless)

Log POW	4.21 (at 25 °C)
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.alpha.-Pinene (80-56-8)	
Log POW	4.1

Mobility in Soil

No additional information available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

In Accordance with DOT

Not regulated for transport

In Accordance with IMDG

Not regulated for transport

In Accordance with IATA

Not regulated for transport

In Accordance with TDG

Not regulated for transport

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SECTION 15: REGULATORY INFORMATION

US Federal and International Regulations

ARM & HAMMER™ Liquid Laundry Detergent (NA GHS 2015)	
SARA Section 311/312 Hazard Classes	Health hazard - Serious eye damage or eye irritation Health hazard - Skin corrosion or Irritation
Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C10-16-alkyl ethers, sodium salts (68585-34-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the Canadian DSL (Domestic Substances List) Listed on the EU NLP (No Longer Polymers) inventory Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on the NCI (Vietnam - National Chemicals Inventory)	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
Alcohols, C12-15, ethoxylated (68131-39-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the Canadian DSL (Domestic Substances List) Listed on the EU NLP (No Longer Polymers) inventory Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Japanese Pollutant Release and Transfer Register Law (PRTR Law) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on the NCI (Vietnam - National Chemicals Inventory)	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
Disodium carbonate (497-19-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the Canadian DSL (Domestic Substances List) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the Canadian IDL (Ingredient Disclosure List) Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on the NCI (Vietnam - National Chemicals Inventory)	

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Benzenesulfonic acid, mono-C10-16-alkyl derivatives, sodium salts (68081-81-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the Canadian DSL (Domestic Substances List)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
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Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemicals Inventory)

D-Limonene (5989-27-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the Canadian DSL (Domestic Substances List)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Canadian IDL (Ingredient Disclosure List)
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Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemicals Inventory)

Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl- (80-54-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the Canadian DSL (Domestic Substances List)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
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Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemicals Inventory)

4-tert-Butylcyclohexyl acetate (32210-23-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the Canadian DSL (Domestic Substances List)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
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Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)

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Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemicals Inventory)

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (128-37-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the Canadian DSL (Domestic Substances List)
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Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemicals Inventory)

Benzyl acetate (140-11-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
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Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemicals Inventory)

Diphenyl oxide (101-84-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the Canadian DSL (Domestic Substances List)
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Listed on NZIoC (New Zealand Inventory of Chemicals)
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Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemicals Inventory)

.alpha.-Pinene (80-56-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

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Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemicals Inventory)

Alcohols, C10-16, ethoxylated (68002-97-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the Canadian DSL (Domestic Substances List)
Listed on the EU NLP (No Longer Polymers) inventory
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam - National Chemicals Inventory)

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

Alcohols, C12-16, ethoxylated (68551-12-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the Canadian DSL (Domestic Substances List)
Listed on the EU NLP (No Longer Polymers) inventory
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
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Listed on the NCI (Vietnam - National Chemicals Inventory)

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

US State Regulations

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (128-37-0)

U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Massachusetts - Right To Know List

Benzyl acetate (140-11-4)

U.S. - New Jersey - Right to Know Hazardous Substance List

Diphenyl oxide (101-84-8)

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U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - Massachusetts - Right To Know List

.alpha.-Pinene (80-56-8)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - Massachusetts - Right To Know List

Canadian Regulations

Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C10-16-alkyl ethers, sodium salts (68585-34-2)

Listed on the Canadian DSL (Domestic Substances List)

Alcohols, C12-15, ethoxylated (68131-39-5)

Listed on the Canadian DSL (Domestic Substances List)

Disodium carbonate (497-19-8)

Listed on the Canadian DSL (Domestic Substances List)

Benzenesulfonic acid, mono-C10-16-alkyl derivatives, sodium salts (68081-81-2)

Listed on the Canadian DSL (Domestic Substances List)

D-Limonene (5989-27-5)

Listed on the Canadian DSL (Domestic Substances List)

Benzenepropanal, 4-(1,1-dimethylethyl)-.alpha.-methyl- (80-54-6)

Listed on the Canadian DSL (Domestic Substances List)

4-tert-Butylcyclohexyl acetate (32210-23-4)

Listed on the Canadian DSL (Domestic Substances List)

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (128-37-0)

Listed on the Canadian DSL (Domestic Substances List)

Benzyl acetate (140-11-4)

Listed on the Canadian DSL (Domestic Substances List)

Diphenyl oxide (101-84-8)

Listed on the Canadian DSL (Domestic Substances List)

.alpha.-Pinene (80-56-8)

Listed on the Canadian DSL (Domestic Substances List)

Alcohols, C10-16, ethoxylated (68002-97-1)

Listed on the Canadian DSL (Domestic Substances List)

Alcohols, C12-16, ethoxylated (68551-12-2)

Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 08/31/2022

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.
This product is labeled in accordance with regulations administered by the Consumer Product Safety Commission (CPSC). The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration applicable to this SDS differ from the labeling requirements of the CPSC and, as a result, this SDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

GHS Full Text Phrases:

H226	Flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed

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H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

This Product Safety Data Sheet is offered solely for your information, consideration and investigation. Church & Dwight Co., Inc. provides no warranties; either expressed or implied, and assumes no responsibility for the accuracy or completeness of data contained herein. Church & Dwight Co., Inc. urges persons receiving this information to make their own determination as to the information suitability for their particular application.

Church&Dwight NA GHS SDS 2015