

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations Revision Date: 09/08/2015 Date of issue: 05/14/2015

Version: 2.0

# **SECTION 1: IDENTIFICATION**

<u>Product Identifier</u> <u>Product Form: Mixture</u>

Product Name: ARM & HAMMER™ Powder Laundry Detergent plus Oxiclean™

Synonyms: Detergent

**Intended Use of the Product** 

Laundry Detergent.

Name, Address, and Telephone of the Responsible Party

Company

Church & Dwight 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, For Chemical Emergency: 1-800-424-9300 (CHEMTREC)

# **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 classification** 

Eye Irrit. 2A H319 Aquatic Acute 2 H401

Full text of H-phrases: see section 16

Label Elements
GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US) : Warning

Hazard Statements (GHS-US) : H319 - Causes serious eye irritation.

H401 - Toxic to aquatic life.

**Precautionary Statements (GHS-US)**: P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, and eye protection.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P501 - Dispose of contents/container in accordance with local, regional, national,

territorial, provincial, and international regulations.

<u>Other Hazards</u> Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. . May cause an allergic reaction in sensitive individuals.

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Unknown Acute Toxicity (GHS-US) Not available

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

### **Mixture**

Name	Product Identifier	% (w/w)	GHS-US classification
Disodium carbonate	(CAS No) 497-19-8	60 - 100	Eye Irrit. 2A, H319
Poly(oxy-1,2-ethanediyl), .alphasulfoomega	(CAS No) 68585-34-2	3 - 7	Skin Irrit. 2, H315
hydroxy-, C10-16-alkyl ethers, sodium salts			Eye Irrit. 2B, H320
Alcohols, C12-16, ethoxylated	(CAS No) 68551-12-2	1-5	Skin Irrit. 2, H315
			Eye Dam. 1, H318
			Aquatic Acute 1, H400
Tinopal CBS	(CAS No) 27344-41-8	0.45	Acute Tox. 4 (Inhalation:dust,mist), H332
			Eye Irrit. 2A, H319
			Aquatic Acute 2, H401
Subtilisins (proteolytic enzymes)	(CAS No) 9014-01-1	< 0.1	Acute Tox. 4 (Oral), H302
			Skin Irrit. 2, H315
			Eye Dam. 1, H318
			Resp. Sens. 1, H334
			STOT SE 3, H335
			Aquatic Acute 1, H400
			Aquatic Chronic 2, H411

A range of concentration as prescribed by the Controlled Products Regulations has been used where necessary, due to varying composition.

The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200]. Full text of H-phrases: see section 16

# **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.

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

**Skin Contact:** Brush off loose particles from skin. Rinse immediately with plenty of water (for at least 15 minutes). Obtain medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

**Eye Contact:** Do not rub. Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.

**Ingestion:** Seek medical attention if a large amount is swallowed. Rinse mouth. Do NOT induce vomiting. If vomiting occurs have person lean forward.

#### Most Important Symptoms and Effects Both Acute and Delayed

General: Causes serious eye irritation. Prolonged contact with large amounts of dust may cause mechanical irritation.

**Inhalation:** May cause respiratory irritation. May cause pulmonary edema.

Skin Contact: May cause skin irritation. May cause an allergic reaction in sensitive individuals.

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

**Ingestion:** Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

# Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

# **SECTION 5: FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

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

Unsuitable Extinguishing Media: For surrounding fire. Use of heavy stream of water may spread fire.

### **Special Hazards Arising From the Substance or Mixture**

Fire Hazard: Not flammable.

**Explosion Hazard:** Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

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### **Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

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

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.

Hazardous Combustion Products: Carbon oxides (CO, CO<sub>2</sub>). Sulfur oxides. Sodium oxides.

#### **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: Do not breathe dust or fumes. Avoid skin and eye contact.

### For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection 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 Avoid release to the environment. Contact competent authorities after a spill.

### Methods and Material for Containment and Cleaning Up

For Containment: Contain and collect as any solid.

**Methods for Cleaning Up:** Avoid generation of dust during clean-up of spills. Keep in suitable, closed containers for disposal. Contact competent authorities after a spill. Clean up spills immediately and dispose of waste safely.

### **Reference to Other Sections**

See heading 8, Exposure Controls and Personal Protection. For further information refer to section 13.

# SECTION 7: HANDLING AND STORAGE

# **Precautions for Safe Handling**

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

### **Conditions for Safe Storage, Including Any Incompatibilities**

**Technical Measures:** Ensure all national/local regulations are observed.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container tightly closed. Store away from incompatible materials.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. Heavy metals.

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), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government

Subtilisins (proteolytic enzymes) (9014-01-1)			
USA ACGIH	ACGIH Ceiling (mg/m³) 0.00006 mg/m³		
USA NIOSH	NIOSH REL (STEL) (mg/m³) 0.00006 mg/m³		
Alberta	OEL Ceiling (mg/m³)	0.00006 mg/m³	
British Columbia	OEL Ceiling (mg/m³)	0.00006 mg/m³	
Manitoba	OEL Ceiling (mg/m³)	0.00006 mg/m <sup>3</sup>	
New Brunswick	OEL Ceiling (mg/m³)	0.00006 mg/m³ (proteolytic enzymes)	
Newfoundland & Labrador	OEL Ceiling (mg/m³)	0.00006 mg/m³	
Nova Scotia	OEL Ceiling (mg/m³)	0.00006 mg/m³	
Nunavut	OEL Ceiling (mg/m³)	0.00006 mg/m³ (Proteolytic enzymes)	
Northwest Territories	OEL Ceiling (mg/m³)	0.00006 mg/m <sup>3</sup>	

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Ontario	OEL Ceiling (mg/m³)	0.00006 mg/m³	
Prince Edward Island	OEL Ceiling (mg/m³)	0.00006 mg/m³	
Québec	<b>lébec</b> PLAFOND (mg/m³) 0.00006 mg/m³ (Proteolytic enzymes)		
Saskatchewan OEL Ceiling (mg/m³) 0.00006 mg/m³		0.00006 mg/m³	
Yukon	OEL Ceiling (mg/m³)	0.00006 mg/m³ (Proteolytic enzymes)	

### **Exposure Controls**

**Appropriate Engineering Controls:** For occupational/workplace settings: Ensure adequate ventilation, especially in confined areas. Avoid creating or spreading dust. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment: Gloves. Protective goggles. Protective clothing. Dust formation: dust mask.









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:** Wash contaminated clothing before reuse.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

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 : Solid

**Appearance** : Free flowing white to off-white powder with blue speckles

Odor : Floral

Odor Threshold : Not available pH : 10 - 12

Evaporation Rate : 10 - 12

Evaporation Rate : Not available

Melting Point: Not applicableFreezing Point: Not availableBoiling Point: Not applicableFlash Point: Not applicableAuto-ignition Temperature: Not available

Decomposition Temperature: Not availableFlammability (solid, gas): Not availableUpper/Lower Flammable Limit: Not availableVapor Pressure: Not availableRelative Vapor Density at 20 °C: Not available

**Specific gravity / density** : 590 - 700 g/l **Solubility** : Complete in water

Partition Coefficient: N-Octanol/Water : Not available Viscosity : Not available

Explosion Data – Sensitivity to Mechanical Impact : Not expected to present an explosion hazard due to mechanical impact. Explosion Data – Sensitivity to Static Discharge : Not expected to present an explosion hazard due to static discharge.

# **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).

<u>Possibility of Hazardous Reactions</u>: Hazardous polymerization will not occur.

<u>Conditions to Avoid</u>: Keep away from moisture, water, ignition sources, direct sunlight, extremely high or low temperatures, incompatible materials.

<u>Incompatible Materials</u>: Strong acids. Strong bases. Strong oxidizers. Heavy metals.

<u>Hazardous Decomposition Products</u>: Thermal decomposition generates: Carbon oxides (CO, CO<sub>2</sub>). Sulfur oxides. Sodium oxides.

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### SECTION 11: TOXICOLOGICAL INFORMATION

# <u>Information on Toxicological Effects - Product</u>

Acute Toxicity: Not classified LD50 and LC50 Data:

ARM & HAMMER<sup>™</sup> Powder Laundry Detergent plus Oxiclean<sup>™</sup>

LD50 Oral Rat ≈ 3 g/kg

Skin Corrosion/Irritation: Not classified (pH: 10 - 12)

Serious Eye Damage/Irritation: Causes serious eye irritation. (pH: 10 - 12)

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

**Teratogenicity:** 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: May cause respiratory irritation. May cause pulmonary edema.

Symptoms/Injuries After Skin Contact: May cause skin irritation. May cause an allergic reaction in sensitive individuals.

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

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

### Information on Toxicological Effects - Ingredient(s)

#### LD50 and LC50 Data:

Disodium carbonate (497-19-8)		
LD50 Oral Rat	4090 mg/kg	
LC50 Inhalation Rat	2300 mg/m³ (Exposure time: 2 h)	
Tinopal CBS (27344-41-8)		
LD50 Oral Rat	5580 mg/kg	
LD50 Dermal Rat	> 2000 mg/kg	
LC50 Inhalation Rat	3.6 mg/l/4h	
Subtilisins (proteolytic enzymes) (9014-01-1)		
LD50 Oral Rat	3700 mg/kg	

# **SECTION 12: ECOLOGICAL INFORMATION**

#### **Toxicity**

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

Disodium carbonate (497-19-8)		
LC50 Fish 1	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
EC50 Daphnia 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])	
Poly(oxy-1,2-ethanediyl), .alphasulfoomegahydroxy-, C10-16-alkyl ethers, sodium salts (68585-34-2)		
EC50 Daphnia 1	3.43 g/l (Ceriodaphnia dubia(Water flea))	
Tinopal CBS (27344-41-8)		
LC50 Fish 1	76 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])	
EC50 Daphnia 1	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
EC50 Other Aquatic Organisms 2	10 (10.0 - 11.0) mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)	
NOEC (acute)	1.37 mg/kg (Exposure time: 14 Days - Species: Eisenia foetida [soil dry weight])	
Subtilisins (proteolytic enzymes) (9014-01-1)		
LC50 Fish 1	14.6 mg/l	
EC50 Daphnia 1	0.306 mg/l	
ErC50 (algae)	0.513 (0.513 - 1.48) mg/l	
NOEC chronic fish	2 mg/l	

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NOEC chronic crustacea 0.019 mg/l	INOEC CHIOHIC CIUSTACEA	0.019 mg/l
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# Persistence and Degradability Not established

# **Bioaccumulative Potential**

Disodium carbonate (497-19-8)	
BCF Fish 1 (no bioaccumulation)	
Tinopal CBS (27344-41-8)	
BCF Fish 1	<1

Mobility in Soil Not available

**Other Adverse Effects** 

Other Information: Avoid release to the environment.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

**Sewage Disposal Recommendations:** This material is hazardous to the aquatic environment. Keep out of sewers and waterways. **Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Ecology – Waste Materials:** Avoid release to the environment.

### **SECTION 14: TRANSPORT INFORMATION**

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

# **SECTION 15: REGULATORY INFORMATION**

# **US Federal and International Regulations**

ARM & HAMMER <sup>™</sup> Powder Laundry Detergent plus Oxiclean <sup>™</sup>		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	

### Disodium carbonate (497-19-8)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on the Canadian IDL (Ingredient Disclosure List)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

Listed on Turkish inventory of chemical

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

Listed on the EU NLP (No Longer Polymers) inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

Listed on Turkish inventory of chemical

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

Listed on the EU NLP (No Longer Polymers) inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on Turkish inventory of chemical

### Tinopal CBS (27344-41-8)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on the Canadian IDL (Ingredient Disclosure List)

Listed on Turkish inventory of chemical

### Subtilisins (proteolytic enzymes) (9014-01-1)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on Turkish inventory of chemical

**US State Regulations** Neither this product nor its chemical components appear on any US state lists.

#### **Canadian Regulations**

# ARM & HAMMER™ Powder Laundry Detergent plus Oxiclean™

WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects



# Disodium carbonate (497-19-8)

Listed on the Canadian DSL (Domestic Substances List), Listed on the Canadian IDL (Ingredient Disclosure List)

IDL Concentration 1 %

WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects

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

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects

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)

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WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects		
Tinopal CBS (27344-41-8)			
Listed on the Canadian DSL (Domestic Substances List)			
Listed on the Canadian IDL (In	Listed on the Canadian IDL (Ingredient Disclosure List)		
IDL Concentration 0.1 %			
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects		
Subtilisins (proteolytic enzymes) (9014-01-1)			
Listed on the Canadian DSL (Domestic Substances List)			
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects		
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects		

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

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

**Revision Date** : 09/08/2015

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200.

### **GHS Full Text Phrases:**

Acute Tox. 4 (Inhalation:dust,mist) Acute Tox. 4 (Oral) Acute Tox. 4 (Oral) Acute Tox. 4 (Oral) Acute toxicity (oral) Category 4 Aquatic Acute 1 Aquatic Acute 1 Aquatic Acute 2 Hazardous to the aquatic environment - Acute Hazard Category 2 Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 2 Eye Dam. 1 Serious eye damage/eye irritation Category 1 Eye Irrit. 2A Serious eye damage/eye irritation Category 2B Resp. Sens. 1 Respiratory sensitisation Category 1 Skin Irrit. 2 Skin corrosion/irritation Category 2 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H302 Harmful if swallowed H315 Causes serious eye damage H319 Causes serious eye irritation H320 Causes serious eye irritation H332 Harmful if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation H400 Very toxic to aquatic life H401 Toxic to aquatic life with long lasting effects		
Aquatic Acute 1 Hazardous to the aquatic environment - Acute Hazard Category 1 Aquatic Acute 2 Hazardous to the aquatic environment - Acute Hazard Category 2 Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 2 Eye Dam. 1 Serious eye damage/eye irritation Category 1 Eye Irrit. 2A Serious eye damage/eye irritation Category 2A Eye Irrit. 2B Serious eye damage/eye irritation Category 2B Resp. Sens. 1 Respiratory sensitisation Category 1 Skin Irrit. 2 Skin corrosion/irritation Category 2 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H302 Harmful if swallowed H315 Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye irritation H320 Causes eye irritation H332 Harmful if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation H400 Very toxic to aquatic life H401 Toxic to aquatic life	Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Acute 2  Aquatic Chronic 2  Hazardous to the aquatic environment - Acute Hazard Category 2  Eye Dam. 1  Eye Irrit. 2A  Serious eye damage/eye irritation Category 2  Eye Irrit. 2B  Serious eye damage/eye irritation Category 2B  Resp. Sens. 1  Serious eye damage/eye irritation Category 2B  Resp. Sens. 1  Skin Irrit. 2  Skin corrosion/irritation Category 2  STOT SE 3  Harmful if swallowed  H315  Causes skin irritation  H318  Causes serious eye damage  H319  Causes serious eye irritation  H320  Causes serious eye irritation  H332  Harmful if inhaled  H334  May cause allergy or asthma symptoms or breathing difficulties if inhaled  H335  May cause respiratory irritation  Very toxic to aquatic life  H400  Very toxic to aquatic life	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Chronic 2  Eye Dam. 1  Serious eye damage/eye irritation Category 1  Eye Irrit. 2A  Serious eye damage/eye irritation Category 2A  Eye Irrit. 2B  Serious eye damage/eye irritation Category 2B  Resp. Sens. 1  Skin Irrit. 2  Skin corrosion/irritation Category 2  Syecific target organ toxicity (single exposure) Category 3  Harmful if swallowed  H315  Causes serious eye damage  H319  Causes serious eye damage  H319  Causes serious eye irritation  H320  Causes eye irritation  H332  Harmful if inhaled  H334  May cause allergy or asthma symptoms or breathing difficulties if inhaled  H335  May cause respiratory irritation  H400  Very toxic to aquatic life  H401  Toxic to aquatic life	Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Eye Dam. 1  Eye Irrit. 2A  Serious eye damage/eye irritation Category 2A  Eye Irrit. 2B  Serious eye damage/eye irritation Category 2B  Resp. Sens. 1  Respiratory sensitisation Category 1  Skin Irrit. 2  Skin corrosion/irritation Category 2  STOT SE 3  Harmful if swallowed  H315  Causes skin irritation  H318  Causes serious eye damage  H319  Causes serious eye damage  H319  Causes serious eye irritation  H320  Causes eye irritation  H332  Harmful if inhaled  H334  May cause allergy or asthma symptoms or breathing difficulties if inhaled  H335  May cause respiratory irritation  H400  Very toxic to aquatic life  H401  Toxic to aquatic life	Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Eye Irrit. 2A  Eye Irrit. 2B  Serious eye damage/eye irritation Category 2B  Resp. Sens. 1  Respiratory sensitisation Category 1  Skin Irrit. 2  Skin corrosion/irritation Category 2  STOT SE 3  Harmful if swallowed  H315  Causes skin irritation  H318  Causes serious eye damage  H319  Causes serious eye irritation  H320  Harmful if inhaled  H332  Harmful if inhaled  H334  May cause allergy or asthma symptoms or breathing difficulties if inhaled  H335  May cause respiratory irritation  H400  Very toxic to aquatic life  H401  Toxic to aquatic life	Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Eye Irrit. 2BSerious eye damage/eye irritation Category 2BResp. Sens. 1Respiratory sensitisation Category 1Skin Irrit. 2Skin corrosion/irritation Category 2STOT SE 3Specific target organ toxicity (single exposure) Category 3H302Harmful if swallowedH315Causes skin irritationH318Causes serious eye damageH319Causes serious eye irritationH320Causes eye irritationH332Harmful if inhaledH334May cause allergy or asthma symptoms or breathing difficulties if inhaledH335May cause respiratory irritationH400Very toxic to aquatic lifeH401Toxic to aquatic life	Eye Dam. 1	Serious eye damage/eye irritation Category 1
Resp. Sens. 1  Respiratory sensitisation Category 1  Skin Irrit. 2  Skin corrosion/irritation Category 2  STOT SE 3  Harmful if swallowed  H315  Causes skin irritation  H318  Causes serious eye damage  H319  Causes serious eye irritation  H320  Causes serious eye irritation  H332  Harmful if inhaled  H334  May cause allergy or asthma symptoms or breathing difficulties if inhaled  H335  May cause respiratory irritation  H400  Very toxic to aquatic life  H401  Toxic to aquatic life	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2 Skin corrosion/irritation Category 2 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H302 Harmful if swallowed H315 Causes skin irritation H318 Causes serious eye damage Causes serious eye irritation H320 Causes eye irritation H332 Harmful if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation H400 Very toxic to aquatic life H401 Toxic to aquatic life	Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
STOT SE 3  Specific target organ toxicity (single exposure) Category 3  H302  Harmful if swallowed  H315  Causes skin irritation  H318  Causes serious eye damage  H319  Causes serious eye irritation  H320  Causes eye irritation  H332  Harmful if inhaled  H334  May cause allergy or asthma symptoms or breathing difficulties if inhaled  H335  May cause respiratory irritation  H400  Very toxic to aquatic life  H401  Toxic to aquatic life	Resp. Sens. 1	Respiratory sensitisation Category 1
H302 Harmful if swallowed H315 Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye irritation H320 Causes eye irritation H332 Harmful if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation H400 Very toxic to aquatic life H401 Toxic to aquatic life	Skin Irrit. 2	Skin corrosion/irritation Category 2
H315 Causes skin irritation H318 Causes serious eye damage H319 Causes serious eye irritation H320 Causes eye irritation H332 Harmful if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation H400 Very toxic to aquatic life H401 Toxic to aquatic life	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H318 Causes serious eye damage H319 Causes serious eye irritation H320 Causes eye irritation H332 Harmful if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation H400 Very toxic to aquatic life H401 Toxic to aquatic life	H302	Harmful if swallowed
H319 Causes serious eye irritation H320 Causes eye irritation H332 Harmful if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation H400 Very toxic to aquatic life H401 Toxic to aquatic life	H315	Causes skin irritation
H320 Causes eye irritation H332 Harmful if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation H400 Very toxic to aquatic life H401 Toxic to aquatic life	H318	Causes serious eye damage
H332 Harmful if inhaled H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation H400 Very toxic to aquatic life H401 Toxic to aquatic life	H319	Causes serious eye irritation
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 May cause respiratory irritation H400 Very toxic to aquatic life H401 Toxic to aquatic life	H320	Causes eye irritation
H335 May cause respiratory irritation H400 Very toxic to aquatic life H401 Toxic to aquatic life	H332	Harmful if inhaled
H400 Very toxic to aquatic life H401 Toxic to aquatic life	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H401 Toxic to aquatic life	H335	May cause respiratory irritation
· ·	H400	Very toxic to aquatic life
H411 Toxic to aquatic life with long lasting effects	H401	Toxic to aquatic life
	H411	Toxic to aquatic life with long lasting effects

### Party Responsible for the Preparation of This Document

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