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# DAWN ADVANCED POWER ULTRA CONCENTRATED DISH DETERGENT

Procter & Gamble  
P&G Household Care  
Fabric & Home Care Innovation Center  
5299 Spring Grove Avenue  
Cincinnati, OH 45217-1087

## MATERIAL SAFETY DATA SHEET

MSDS #: FH/L/2006/RWRB-6SQJ3Y Issue Date: 9/2/06

Supersedes: FH/L/2006/JFJA-6SAJ4X (S) Issue Date: 8/8/06

### SECTION I - CHEMICAL PRODUCT

Identity: **Liquid Hand Dishwashing Detergents Finished, Packaged Product**

Brands:

**DAWN (Ultra Dawn Original Blue, Lemongrass & Orange Blossom, Honeysuckle & Rain, Jasmine & Lavender, Essentials Berry Essence; 1X Dawn Original, Apple Blossom, Summertime Showers; Ultra Dawn Advanced Power)**

P&G Telephone Number:

DAWN 1-800-725-3296 (DAWN)

or call Local Poison Control Center or your physician

### SECTION II - COMPOSITION AND INGREDIENTS

Ingredients listed on the product label are: biodegradable anionic and nonionic surfactants and **no phosphate**.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200.

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Composition Range</u>	<u>TLV/LD50/LC50</u>
Ethyl alcohol	Ethanol	64-17-5	1-6%	LD50 (rabbit, oral)=6300 mg/kg

### SECTION III - HAZARDS IDENTIFICATION

**Potential Health Hazards (Acute and Chronic):** (See Section 11 for more information)

Ingestions: Ingestion may cause transient gastrointestinal irritation.

Eye Contact: May cause mild, transient irritation.

Skin Contact: Transient irritation with prolonged exposure to concentrated material.

Inhalation: N/A

**Signs and Symptoms of Exposure:**

Ingestion: May result in nausea, vomiting, and/or diarrhea.

Eye Contact: May cause stinging, tearing, itching, swelling, and/or redness.

Skin Contact: Prolonged contact with concentrated material may be drying or transiently irritating to skin.

Inhalation: N/A

**Potential Environmental Effects:** (See Section 12 for more information)

#### SECTION IV - FIRST AID INFORMATION

**First Aid Procedures:**

Ingestion: Drink 1 or 2 glasses of water.

Eye Contact: Flush thoroughly with water for 15 minutes.

Skin Contact: If prolonged contact occurs, rinse thoroughly with water. If spilled on clothing, change clothes. If symptoms persist or recur, seek medical attention.

Inhalation: N/A

**Other:** Consumer product package has a voluntary avoid accidents statement on the back label: "Keep out of reach of children. If the product gets in eyes, rinse thoroughly with water. If swallowed, drink a glass of water to dilute."

#### SECTION V - FIRE FIGHTING INFORMATION

**Flammable Properties:** The liquid hand dishwashing detergents have a flashpoint of 115-135°F (46.1-57.2°C) Pinsky-Martens (Closed cup). However, the detergents are an aqueous solution (>50% water) and do **not** sustain combustion according to ASTM D4206.

**Extinguishing Media:** CO2, water or dry chemical.

**Protection of Firefighters:**

Specific Fire Hazards Arising from the Material: None

Protective Equipment and Precautions for Firefighters: No unusual precautions necessary.

#### SECTION VI - ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** None

**Environmental Precautions:** DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. Solutions of the detergents may be allowed to be flushed down sewer -- First check with your local water treatment plant. Recycling is recommended for undiluted scrap product. Do not landfill.

**Steps To Be Taken in Case Material is Released or Spilled:** Prevent spills from reaching a waterway. Sorbents may be used. Read "Waste Disposal Method" below for further information.

#### SECTION VII - HANDLING AND STORAGE

**Precautions To Be Taken in Handling:** No unusual precautions necessary.

**Precautions To Be Taken in Storage:** No unusual precautions necessary.

**Other Precautions:** None known

#### SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION

**Exposure Guidelines:** Ethanol (CAS# 64-17-5) ACGIH-TLV 1000 ppm OSHA Z-1 PEL 1000 ppm

**Personal Protective Equipment (PPE):**

**Eye/Face Protection:** None required with normal consumer use.

*Industrial Setting:* For splash protection, use chemical goggles. Eye Wash fountain is desirable.

**Skin Protection:** None required with normal use.

*Industrial Setting:* Protective gloves (rubber, neoprene) should be used for prolonged direct contact.

**Respiratory Protection (Specify Type):** None required with normal use.

**Ventilation Local Exhaust:** None required with normal consumer use. *Special:* None

*Mechanical (General):* Normal/general dilution ventilation is acceptable. *Other:* None

**Other Protective Equipment:** None required with normal use.

### SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point °F:** Not known

**Vapor Pressure (mm Hg):** N/A

**Vapor Density (Air=1):** N/A

**Flash Point (Method Used):** 115-135°F (46.1-57.2°C) Pensky-Martens (Closed cup). This is an aqueous solution (>50% water) that contains less than 24% by volume of alcohol and does not sustain combustion according to ASTM D4206.

**Solubility in Water:** Completely

**Partition Coefficient (n-octanol/water):** N/A

**Appearance and Odor:** Purple, Blue, Green, Yellow, Pink or Orange liquids. All products are perfumed.

**Specific Gravity (H<sub>2</sub>O=1)/Density:** ca. 1

**Physical State:** Liquid

**Melting/Freezing Point:** ~ 30 °F (-1.1°C)

**pH (10% solution):** 9-9.2

**Reserve Alkalinity:** N/A

**Explosive Limits: LEL:** N/A **UEL:** N/A

**Odor Threshold:** N/A

### SECTION X - STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Possible Hazardous Reactions/Conditions:** None known

**Conditions to Avoid:** None

**Materials to Avoid:** None

**Hazardous Decomposition Products:** None known

**Other Recommendations:** None

### SECTION XI - TOXICOLOGICAL INFORMATION

Liquid hand dishwashing detergents have a relatively low order of toxicity. They may be irritating, but they are not expected to be corrosive. They are expected to be emetic.

### SECTION XII - ECOLOGICAL INFORMATION

All surfactants are readily biodegradable. These products are safe for septic tanks.

### SECTION XIII - DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS.

*Household Disposal:* Household product is safe for disposal down the drain with running water. The empty container may be discarded in the trash or recycled where facilities exist.

*Non-household Setting:* Products covered by this MSDS, in their original form, when disposed as waste, are considered non-hazardous waste according to Federal RCRA regulations (40 CFR 261). The products are aqueous solutions (>50% water) that contain less than 24% by volume of alcohol. Solutions of diluted detergent in the course of use, may be allowed to be flushed down sewer. First check with your local water treatment plant. Recycling is recommended for undiluted scrap product. Do not landfill.

### SECTION XIV - TRANSPORT INFORMATION

**Transportation Information –** These products are not regulated for transportation.

For finished, packaged product transported by ground (DOT): Not regulated

For finished, packaged product transported by water/vessel (IMDG): Not regulated

For finished, packaged product transported by air (IATA): Not regulated

**SECTION XV - ADDITIONAL REGULATORY INFORMATION**

All intentionally-added components are listed on the US TSCA Inventory.  
These products are not subject to warning labeling under California Proposition 65.  
Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance.  
All ingredients are CEPA approved for import to Canada by Procter & Gamble only.

**SECTION XVI - OTHER INFORMATION**

P&G Hazard Rating: Health: 1 4 = EXTREME  
Flammability: 1 3 = HIGH  
Reactivity: 0 2 = MODERATE  
1 = SLIGHT  
0=NOT SIGNIFICANT  
\*N/A. - Not Applicable \*N/K. - Not Known  
Data supplied is for use only in connection with occupational safety and health.  
The information contained herein has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific material designated herein, and does not relate to the use in combination with any other material or any other process. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, for any damage to any property resulting from misuse of the controlled product.

LAGASSE BROTHERS  
 1525 KUEBEL STREET  
 NEW ORLEANS, LA 70123

PHONE 504-736-5500

HMIS RATING	
Health	0
Flammability	0
Reactivity	0
Personal Protection	NA

1. PRODUCT **DERMABRAND ANTIBACTERIAL LOTION SOAP**

2. HAZARDOUS (OR OTHER) INGREDIENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	% RANGE
Ethanolamine	141-43-5	TWA: 3 ppm STEL: 6 ppm	TWA: 3 ppm STEL: 6 ppm	<3

OSHA STANDARDS AND SARA TITLE III DO NOT APPLY TO THIS COSMETIC PRODUCT. COSMETICS AND UNLISTED INGREDIENTS ARE NOT CONSIDERED HAZARDOUS OR REPORTABLE BY ANY FEDERAL (OSHA, WHMIS, SARA, EPCRA, RCRA), ANY STATE OR ANY OTHER RIGHT-TO-KNOW REGULATIONS.

3. HEALTH HAZARD DATA: **THIS SKIN CARE COSMETIC IS NOT HAZARDOUS OR TOXIC UNDER NORMAL USE CONDITIONS.**

ROUTES OF ENTRY:  Inhalation  Skin  Eye  Ingestion

CARCINOGENICITY:  Not Listed  NTP  IARC  OSHA  ACGIH

OVEREXPOSURE: Medical Conditions Aggravated: **None known** Potential Effects: **May cause eye irritation**

4. EMERGENCY AND FIRST AID PROCEDURES: **EYE CONTACT: Flush immediately and thoroughly**

**with water for 15 minutes. If condition worsens or irritation persists, contact a physician. INGESTION: DO NOT INDUCE VOMITING. If vomiting occurs, lower the person's head below their knees to avoid aspiration. Contact physician or poison control centre.**

5. FIRE FIGHTING OR EXPLOSION DATA:	Flash Point, °F/°C: <b>NA</b> (PMCC Method)	Flammability Limits: <b>NA</b>	LEL, % <b>NA</b>	UEL, % <b>NA</b>
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EXTINGUISHING MEDIA: Water Fog  Alcohol Foam  CO<sub>2</sub>  Dry Chemical  Other

Unusual Fire and Explosion Hazards: **None known** NFPA 704 Rating: 0 0 0 NA

Special Fire Fighting Procedures: **None known**

6. ACCIDENTAL RELEASE MEASURES: **NOT REPORTABLE UNDER CERCLA OR SARA TITLE III SECTION 304.**

IF MATERIAL IS RELEASED OR SPILLED: **Pick up large spills or absorb on inert material. Collect in sealed approved container for disposal. Flush area with water to clean up small amounts and reduce possible slippery floor hazard.**

7. PRECAUTIONS FOR SAFE HANDLING AND USE: **STORE AWAY FROM THE REACH OF SMALL CHILDREN.**

PERSONAL PRECAUTIONS: **Avoid contact with the eyes. Do not take internally.**

STORAGE AND OTHER PRECAUTIONS: **Store at ambient indoor conditions. Keep containers sealed.**

8. CONTROL AND PROTECTION MEASURES: **COMPLY IF APPLICABLE EXPOSURE LIMITS SHOWN IN SECTION 2 ABOVE.**

TLV (ACGIH): **Not Applicable** PEL (OSHA): **NA** TWA: **None** STEL: **None** Skin Note: **NA**

VENTILATION: Mechanical: **Not required if used as directed** Local: **Not Required** Special: **Not Required**

PERSONAL PROTECTION: Respiratory: **Not required if used as directed** Eyes: **Not Required** Skin: **Not Required**

Protective Equipment or Clothing: **Not Required** Work/Hygienic Practice: **Routine personal hygiene**

## 9. PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point, °F/°C:	ND	Melting Point, °F/°C:	ND
Vapor Pressure (mm Hg):	ND	Specific Gravity (H <sub>2</sub> O =1):	1.0
Vapor Density (Air =1):	ND	Evaporation Rate (H <sub>2</sub> O =1):	ND
Volatility, %	>80 (0 VOC)	pH (undiluted):	8.5 - 9.2
Solubility in Water:	Complete	Viscosity, cps:	3,000 - 7,000
Color/Clarity/Form & Odor:	Clear light amber liquid, floral balsam fragrance		

## 10. STABILITY AND REACTIVITY DATA

Stability: **Stable** Hazardous Polymerization: **None known** Conditions to Avoid: **None known**  
 Incompatibility (Avoid): **None known** Decomposition or By-Products: **Combustion may produce CO, CO<sub>2</sub>, NO<sub>x</sub>**

## 11. TOXICOLOGICAL INFORMATION: NO ACUTE TOXIC EFFECTS EXPECTED BY INHALATION, INGESTION, OR CONTACT DURING ANTICIPATED HANDLING AND USAGE. NO LONG TERM CHRONIC EFFECTS.

ALSO SEE SECTION 3  
 Irritant: **Not a primary irritant** Sensitization: **None known** Synergism: **None known**  
 Skin LD50: **Not Applicable** Oral LD50: **ND** Inhalation LC50: **Not Applicable**

## 12. ECOLOGICAL INFORMATION: NOT EXPECTED TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS. NOT CONSIDERED ENVIRONMENTALLY HARMFUL FROM NORMAL DILUTION, EXPECTED USAGE AND TYPICAL DRAINAGE TO SEWERS, SEPTIC SYSTEMS, AND TREATMENT PLANTS.

POTENTIAL: Biodegradation: **ND** Oxygen Depletion: **ND** Bioconcentration: **ND**  
 AFFECTS: Aquatic Organisms: **ND** Waste Plant Microbes: **ND** BOD: **NE** COD: **NE**

## 13. DISPOSAL GUIDELINES: DISPOSE ACCORDING TO LOCAL, STATE/PROVINCE, FEDERAL &amp; INTERNATIONAL REGULATIONS. NOT A CHARACTERISTIC HAZARDOUS OR LISTED WASTE BY USEPA &amp; RCRA (40CFR PART 261).

## 14. TRANSPORT REGULATIONS: NOT HAZARDOUS BY DOT, HM-181, TDG, IATA, &amp; IMO REGULATIONS.

Shipping Class: **Not regulated as hazardous** Label: **Not Applicable** UN/NA/PIN: **Not Applicable**

## 15. REGULATORY CONSIDERATIONS: NOT REGULATED BY DOT, OSHA, WHMIS, TSCA, SARA, OR STATES.

COSMETICS & INGREDIENTS ARE NOT CONSIDERED HAZARDOUS OR REPORTABLE BY ANY FEDERAL (TSCA, OSHA, WHMIS, SARA, CERCLA, EPCRA, RCRA), ANY STATE, OR ANY OTHER RIGHT-TO-KNOW-REGULATIONS. TSCA, OSHA STANDARDS, SARA TITLE III, AND STATE RIGHT-TO-KNOW LAWS MAKE EXCEPTIONS, EXCLUSIONS AND EXEMPTIONS FOR COSMETIC PRODUCTS THAT ARE REGULATED BY AND LABELED ACCORDING TO THE FOOD AND DRUG ADMINISTRATION (FDA).

TSCA, DSL, EINECS: **Components of the product are listed, exempted or excluded from these requirements.**

SARA TITLE III: Sec. 302 EHS, TPQ: **NA** Sec. 304 EHS, RQ: **NA** Sec. 311/312: **NA** Sec. 313: **None**

USA STATE REGULATIONS: Reportable substances present at notification quantities: **NA and None known**

INTERNATIONAL HAZARD CLASS: Canada (WHMIS or TDG): **Not a Controlled Product** EEC: **Not Regulated**

## 16. OTHER RELEVANT INFORMATION: NO DATA AVAILABLE UNLESS SPECIFICALLY INDICATED BELOW.

DATE: **10/10/00** SUPERSEDES: **NEW**

NOTICE: THE INFORMATION HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE AS OF THE DATE OF PREPARATION OF THIS MATERIAL SAFETY DATA SHEET. HOWEVER, NO WARRANTY OR REPRESENTATION, EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE FOREGOING DATA AND SAFETY INFORMATION. THE USER ASSUMES ALL LIABILITY FOR ANY DAMAGE OR INJURY RESULTING FROM ABNORMAL USE FROM ANY FAILURE TO ADHERE TO RECOMMENDED PRACTICES OR FROM ANY HAZARDS INHERENT IN THE NATURE OF THE PRODUCT.

NA=NOT APPLICABLE, ND=NO DATA, NE=NOT ESTABLISHED. FORM COMPLIES WITH OSHA FORM 174, EEC, & DRAFT ANSI FORMATS.

Revision Number: 035.0

Issue Date: 08/06/2014

## 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

**Product identifier used on the label:**

Dial® Antibacterial Hand Soap – Mountain Fresh, Spring Water, Pomegranate and Tangerine, Gold, Aloe  
 Dial® Antibacterial Hand Soap – White Tea & Vitamin E (Fresh Snow)  
 Berkley & Jensen® Antibacterial Liquid Hand Soap  
 Dial® Antibacterial Hand Soap – Hello Kitty  
 Dial® Seasonals Collection Antibacterial Liquid Hand Soap – Blackberry & Coriander, Red Grapes & Mint, Cranberry & Fig, Spiced Apple & Pear, Tropical Bloom, Fruit Splash, Exotic Escape, Refreshing Escape  
 Dial® Skin Therapy Antibacterial Liquid Hand Soap - Himalayan Pink Salt  
 Dial® Lavender & Twilight Jasmine Antibacterial Liquid Hand Soap  
 Dial® Gold Antibacterial Hand Soap – Professional  
 Liquid Dial® with Moisturizers  
 Liquid Dial® Sensitive Skin

**Other means of identification:**

714729, 1631912 (Mountain Fresh); 1533782, 714757, 1631890, 1763465 (Spring Water); 1112000, 1151446, 1631899 (Pomegranate and Tangerine); 1198192, 1305319, 1632015, 1679927 (Gold); 1198180, 1305318, 1632019, 1661407, 1679939, 1763472 (Aloe); 1362663, 1631897 (White Tea & Vitamin E, Fresh Snow); 1365866 (Berkley & Jensen); 1605423, 1606021, 1631872 (Hello Kitty); 1693185 (SC Blackberry & Coriander), 1693201 (SC Red Grapes & Mint), 1713197 (SC Cranberry & Fig); 1713166 (SC Spiced Apple & Pear); 1742158 (SC Tropical Bloom); 1729985 (SC Fruit Splash); 1802082 (Exotic Escape); 1802073 (Refreshing Escape); 1715643 (Skin Therapy - Himalayan Pink Salt), 1778120 (Lavender & Twilight Jasmine); 1679927 (Professional); 1756809 (w/Moisturizers); 1756400 (Sensitive Skin)

**Recommended use of the chemical and restrictions on use:**

Liquid Antibacterial Hand Soap; No restrictions on use

**Name, address and telephone number of the chemical manufacturer:**

The Dial Corporation, a Henkel Company  
 7201 E. Henkel Way  
 Scottsdale, AZ 85255-9672 USA

CHEMTREC: 1-800-424-9300 (24 hours daily)  
 Internet: www.henkelna.com

**Emergency telephone number:** Medical Emergencies: 1-888-689-9082

## 2. HAZARD IDENTIFICATION

**Classification of the substance or mixture in accordance with paragraph (d) of §1910.1200**

HAZARD CLASS	HAZARD CATEGORY
ACUTE HAZARDS TO THE AQUATIC ENVIRONMENT	3
CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT	3

**Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200**

**Signal word:** Not prescribed  
**Hazard Statement(s):** Harmful to aquatic life with long lasting effects.  
**Symbol(s):** None

**Precautionary Statements:**

**Prevention:** Avoid release to the environment.  
**Response:** Not prescribed  
**Storage:** Not prescribed  
**Disposal:** Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

**Hazards not otherwise classified:** Not available.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.



### 3. COMPOSITION / INFORMATION ON INGREDIENTS

The following chemicals are classified as health hazards in accordance with paragraph (d) of § 1910.1200.

Chemical Name*	CAS Number (Unique Identifier)	Concentration	Classification §1910.1200
Alcohols, C10-16, ethoxylated, sulfates, sodium salts, 2EO	68585-34-2	5 – 10 %	Eye irritation 2A Skin irritation 2 Chronic hazards to the aquatic environment 3
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	61789-40-0	1 – 5 %	Eye irritation 2A Skin irritation 2 Skin Sensitization 1 Chronic hazards to the aquatic environment 3

\*The specific chemical identity and/or exact percentage (concentration) of composition has been withheld because a trade secret is claimed in accordance with paragraph (i) of §1910.1200.

### 4. FIRST AID MEASURES

#### Description of necessary measures

**Inhalation:** Remove from exposure area to fresh air. Treat symptomatically and supportively. If any symptoms appear, get medical attention.  
**Skin contact:** Rinse affected area with large amounts of mild soap and water until no evidence of product remains. Discontinue exposure. Get medical attention if irritation persists.  
**Eye contact:** Rinse eyes with plenty of water until no evidence of product remains. Get medical attention if pain or irritation develops.  
**Ingestion:** Dilution by rinsing the mouth and giving water or milk to drink is generally recommended. Contact physician or local poison control center.

#### Most important symptoms and effects, both acute and delayed

After eye contact: May cause mild transient irritation After skin contact: Repeated or prolonged excessive exposure may cause irritation or dermatitis. After ingestion: Nausea and possible vomiting may occur. After inhalation: Unlikely to occur due to the physical properties of the product. At elevated temperatures, vapors or mists may cause irritation.

#### Indication of any immediate medical attention and special treatment needed

After eye contact: Rinse eyes with plenty of water until no evidence of product remains. After skin contact: Rinse affected area with mild soap and water until no evidence of product remains. After ingestion: Dilution by rinsing the mouth and giving a glass of water to drink is generally recommended. After inhalation: Remove from exposure area to fresh air.

### 5. FIRE FIGHTING MEASURES

#### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Dry chemical, carbon dioxide, water spray or regular foam.  
**Unsuitable extinguishing media:** None known

#### Specific hazards arising from the chemical

Oxides of carbon and oxides of nitrogen.

#### Special protective equipment and precautions for fire-fighters

In case of fire, wear a full-face positive-pressure self-contained breathing apparatus and protective suit. Shut off all ignition sources. Move containers from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Use flooding amounts of water as a fog, solid streams may be ineffective. Avoid breathing hazardous vapors, keep upwind.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Wear skin, eye and respiratory protection as recommended in Section 8. Stop or reduce any leaks if it is safe to do so. Spills present a slipping hazard. Keep unnecessary personnel away. Ventilate spill area if possible. Make sure area is slip-free before re-opening to traffic.

#### Environmental Precautions

Small or household quantities may be disposed in sewer or other liquid waste system. For larger quantities check with your local water treatment plant.

#### Methods and materials for containment and cleaning up

**SMALL SPILLS:** Contain and absorb with absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water.  
**LARGE SPILLS:** Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. Dispose in suitable waste container.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Do not get in eyes. Do not take internally. Use with adequate ventilation. Avoid generating aerosols and mists.

#### Conditions for safe storage, including any incompatibilities

The Dial Corporation, a Henkel Company; 7201 E. Henkel Way; Scottsdale, AZ 85255-9672	
Liquid Antibacterial Hand Soap	Page 2 of 5

Store in original containers in a cool dry area. Storage areas for large quantities (warehouse) should be well ventilated. Keep the containers tightly closed when not in use.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.

Hazardous Component(s)	ACGIH	OSHA PEL	AIHA WEEL	OTHER
Alcohols, C10-16, ethoxylated, sulfates, sodium salts, 2EO	None	None	None	None

### Appropriate engineering controls

Provide local exhaust or general dilution ventilation to keep exposure to airborne contaminants below the permissible exposure limits where mists or vapors may be generated.

### Individual protection measures

**Respiratory:** Air contamination monitoring should be carried out where mists or vapors are likely to be generated, to assure that the employees are not exposed to airborne contaminants above the permissible exposure limits.

**Eye:** Safety glasses are required to prevent eye contact where dusty conditions may occur.

**Hand/Body:** Protective gloves are required where repeated or prolonged skin contact may occur. Protective clothing is required where repeated or prolonged skin contact may occur.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	liquid, colorless
<b>Odor:</b>	citric, green, fresh
<b>Odor threshold:</b>	Not available.
<b>pH:</b>	5.20 - 6.20 (25 °C)
<b>Melting point/ range:</b>	Not available.
<b>Boiling point/range:</b>	Not available.
<b>Flash point:</b>	> 93.3 °C (> 199.94 °F)
<b>Evaporation rate:</b>	Not available.
<b>Flammable/Explosive limits - lower:</b>	Not available.
<b>Flammable/Explosive limits - upper:</b>	Not available.
<b>Vapor pressure:</b>	Not available.
<b>Vapor density:</b>	Not available.
<b>Solubility in water:</b>	Soluble
<b>Partition coefficient (n-octanol/water):</b>	Not available.
<b>Autoignition temperature:</b>	Not available.
<b>Decomposition temperature:</b>	Not available.
<b>Viscosity:</b>	Not available.
<b>VOC content:</b>	Not available.
<b>Specific gravity:</b>	1.024 at 20 °C (68°F)

## 10. STABILITY AND REACTIVITY

**Reactivity:** This product may react with strong alkalis.

**Chemical stability:** Stable under normal ambient temperature (70°F, 21°C) and pressure (1 atm).

**Possibility of hazardous reactions:** Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

**Conditions to avoid:** Avoid storing in direct sunlight and avoid extremes of temperature.

**Incompatible materials:** Strong oxidizers and alkalis.

**Hazardous decomposition products:** Thermal decomposition may release toxic and/or hazardous gases, including ammonia.

## 11. TOXICOLOGICAL INFORMATION

### Likely routes of exposure including symptoms related to characteristics

**Inhalation:** Unlikely to occur due to the physical properties of the product. At elevated temperatures, vapors or mists may cause irritation.

**Skin contact:** Repeated or prolonged excessive exposure may cause irritation or dermatitis.

**Eye contact:** This product may cause slight irritation.

**Ingestion:** May cause mild gastrointestinal irritation with nausea, vomiting, diarrhea and abdominal pain.

**Physical/Chemical:** No physical/chemical hazards are anticipated for this product.

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**Other relevant toxicity information:**

This product is a personal care or cosmetic product. Direct contact with eyes may cause irritation. No adverse effects are anticipated to skin from normal use.

**Numerical measures of toxicity, including delayed and immediate effect**

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Alcohols, C10-16, ethoxylated, sulfates, sodium salts, 2EO	None	Irritant
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	None	Irritant, Allergen

**Carcinogenicity information**

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Alcohols, C10-16, ethoxylated, sulfates, sodium salts, 2EO	No	No	No
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	No	No	No

**Carcinogenicity**

None of the ingredients in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA).

**Mutagenicity**

None of the ingredients in this product are known to cause mutagenicity.

**Toxicity to reproduction**

None of the ingredients in this product are known to have reproductive, fetal, or developmental hazards.

**12. ECOLOGICAL INFORMATION****Aquatic Toxicity:**

This product is anticipated to be safe for the environment at concentrations predicted in household settings under normal use conditions. The following toxicity information is available for the hazardous ingredient(s) when used as technical grade and is provided as reference for the occupational settings.

**Toxicity to fish:**

Hazardous substances	Value type	Value	Acute toxicity study	Exposure time	Species	Method
Alcohols, C10-16, ethoxylated, sulfates, sodium salts, 2EO	LC50	4.9 mg/l	Fish	96 h	Salmo sp.	OECD 203
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,Ndimethyl-,N-coco acyl derivs., hydroxides, inner Salts	LC50 NOEC	6.7 mg/l 0.135 mg/l	Fish Fish	96 h 100 d	Danio rerio Oncorhynchus mykiss	ISO 7346-1 OECD 210

**Toxicity to aquatic invertebrates:**

Hazardous substances	Value type	Value	Acute toxicity study	Exposure time	Species	Method
Alcohols, C10-16, ethoxylated, sulfates, sodium salts, 2EO	EC50	3.1 mg/l	Daphnia	48 h	Daphnia magna	OECD 202
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,Ndimethyl-,N-coco acyl derivs., hydroxides, inner Salts	EC50	3.7 mg/l	Daphnia	24 h	Daphnia magna	OECD 202

**Toxicity to algae:**

Hazardous substances	Value type	Value	Acute toxicity study	Exposure time	Species	Method
Alcohols, C10-16, ethoxylated, sulfates, sodium salts, 2EO	EC50	2.5 mg/l	Algae	95 h	Selenastrum capricornutum	OECD 201
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,Ndimethyl-,N-coco acyl derivs., hydroxides, inner Salts	EC50	2.6 mg/l	Algae	96 h	Scenedesmus subspicatus	OECD 201

**Persistence and Degradability:** The persistence and degradability of this product has not been determined. The hazardous ingredients are readily biodegradable.

Hazardous substances	Result value	Route of application	Species	Method
Alcohols, C10-16, ethoxylated, sulfates, sodium salts, 2EO	Readily biodegradable	aerobic	80 – 83 %	OECD 301 B (CO2 evolution)
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,Ndimethyl-,N-coco acyl derivs., hydroxides, inner Salts	Readily biodegradable	aerobic	86 %	OECD 301 D (closed bottle)

**Bioaccumulation Potential:** The bioaccumulation potential of this product has not been determined.

**Mobility:** The mobility of this product (in soil and water) has not been determined.

The Dial Corporation, a Henkel Company; 7201 E. Henkel Way; Scottsdale, AZ 85255-9672	
Liquid Antibacterial Hand Soap	Page 4 of 5

### 13. DISPOSAL CONSIDERATIONS

**Waste Number and Description:** Not applicable, not regulated.

**Disposal Considerations:**

**Disposal of products:** This product is not a RCRA hazardous waste and can be disposed of in accordance with federal, state and local regulations.

**Disposal of packages:** Place in trash.

**Additional information:** Observe all federal, state and local regulations when storing or disposing of this substance

### 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

#### U.S. Department of Transportation Ground (49 CFR)

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

#### International Air Transportation (ICAO/IATA)

**Proper shipping name:** Environmentally hazardous substance, liquid, N.O.S. (Triclosan)  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

#### Water Transportation (IMO/IMDG)

**Proper shipping name:** Environmentally hazardous substance, liquid, N.O.S. (Triclosan)  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III  
**Marine pollutant:** Triclosan

### 15. REGULATORY INFORMATION

**Occupational Safety and Health Act:** Hazard Communication Rule, 29 CFR 1910.1200: The Occupational Safety and Health Administration (OSHA) require Material Safety Data Sheets (MSDSs) to provide information about any hazard that may be associated with the product and make this information available in the workplace. Since the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers, this MSDS may contain health hazard information not relevant to consumer use.

#### United States Regulatory Information:

**TSCA 8 (b) Inventory Status:** All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.  
**TSCA 12 (b) Export Notification:** None above reporting de minimis  
**CERCLA/SARA Section 302 EHS:** The following components are subject to reporting levels established by SARA Title III, Section 302: Formaldehyde (CAS# 50-00-0).  
**CERCLA/SARA Section 311/312:** Not available.  
**CERCLA/SARA Section 313:** None above reporting de minimis  
**California Proposition 65:** No California Proposition 65 listed chemicals are known to be present.

#### Canada Regulatory Information:

**CEPA DSL/NDL Status:** One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.

### 16. OTHER INFORMATION

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

**This safety data sheet contains changes from the previous version in sections:** New Safety Data Sheet format.

**Prepared by:** R&D Support Services

**Issue date:** 08/06/2014

**Supersedes:** Rev. 34, 04/07/2014

The Dial Corporation, a Henkel Company; 7201 E. Henkel Way; Scottsdale, AZ 85255-9672

Liquid Antibacterial Hand Soap

Page 5 of 5

**MATERIAL SAFETY DATA SHEET**  
IDENTITY (AS USED ON LABEL AND LIST)

**00711-all codes except:**  
**-1006 -1007 -1016 -1017**  
**-1018 -1026 -1027 -1028**  
**-1059**

**DICK BLICK BLICKRYLIC COLORS**

May be used in compliance with OSHA's 29 CFR 1910.1200  
Note: Hazardous materials are not identified in this section unless they are  
in the appropriate boxes. The space may be marked appropriate.

**SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION**

<b>ROCK PAINT DISTRIBUTING CORP.</b>	<b>(608) 868-6873</b>
<small>MANUFACTURER</small>	<small>TELEPHONE NUMBER FOR INFORMATION</small>
<b>365 SUNNYSIDE DR. P.O. BOX 482</b>	<b>(920) 563-8545</b>
<small>ADDRESS</small>	<small>EMERGENCY TELEPHONE NUMBER</small>
<b>MILTON, WI 53563</b>	<b>JULY 2007</b>
	<small>DATE PREPARED</small>

**00734-1009 set**

**SECTION 2 - MATERIAL IDENTIFICATION AND INFORMATION**

COMPONENTS	CHEMICAL NAME & COMMON NAMES	%	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
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Contains no hazardous substance per OSHA  
29 CFR 1910.1200

Material is a water based product with the AP Seal. Products with the AP Approved Products Seal of the Art and Craft Materials Institute Inc. are certified in a program of toxicological evaluation by a medium expert to contain no material in sufficient quantities to be toxic or injurious to humans or to cause acute or chronic health problems. These products are certified by the Institute to be in accordance with the voluntary chronic hazard labeling standard ASTM D-4236. In addition, there is no physical hazard as defined within 29 CFR Part 1910.1200 (c).

**SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS**

<b>BOILING POINT</b> -	Range 215-225 F	<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1)</b> -	Range 1.03-1.68
<b>VAPOR PRESSURE (mm Hg &amp; TEMPERATURE)</b> -	N/A	<b>MELTING POINT</b> -	N/A
<b>VAPOR DENSITY (AIR=1)</b> -	lighter than air	<b>EVAPORATION RATE (WATER = 1)</b> -	lower than ether
<b>SOLUBILITY IN WATER</b> -	completely soluble in water	<b>WATER REACTIVE</b> -	N/A
<b>APPEARANCE &amp; ODOR</b> -	various colors and odorless		

**SECTION 4 - FIRE AND EXPLOSION HAZARD DATA**

<b>FLASH POINT &amp; METHOD USED</b>	<b>FLAMMABILITY LIMITS IN AIR % BY VOLUME</b>	
N/A	N/A	
<b>EXTINGUISHER MEDIA</b>	U.S.	U.S.
CO <sub>2</sub> , Foam or Water	N/A	N/A
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>		
None known		
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b>		
None		

**SECTION 5 - REACTIVITY HAZARD DATA**  
 STABILITY CONDITIONS TO AVOID

BLICKRYLIC COLORS Page 2 of 2

STABLE

None

UNSTABLE

INCOMPATIBILITY (MATERIALS TO AVOID) N/A  
 HAZARDOUS DECOMPOSITION PRODUCTS N/A  
 HAZARDOUS POLYMERIZATION

CONDITIONS TO AVOID

MAY OCCUR

N/A

None known

WILL NOT OCCUR

**SECTION 6 - HEALTH HAZARD DATA**

PRIMARY ROUTES OF ENIT N/A  
 INHALATION INGESTION

CARCINOGEN LISTED IN N/A  
 NTP CSHA

SKIN ABSORPTION

NOT HAZARDOUS

IARC MONOGRAPH NOT LISTED

HEALTH HAZARDS Refer to Section 2  
 SIGNS AND SYMPTOMS

ACUTE CHRONIC  
 Not known

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Not known

EMERGENCY FIRST AID PROCEDURES - Consult a Physician immediately.

**SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES**

STEPS TO BE TAKEN IS MATERIAL IS SPILLED OR RELEASED  
 Usual Clean Up Procedure

**WASTE DISPOSAL METHODS**

Dispose of in accordance with Federal and Local State Regulations

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Store at room temperature.

**OTHER PRECAUTIONS AND/OR SPECIAL HAZARDS**

Not known

**SECTION 8 - CONTROL AND PROTECTIVE MEASURES**

**RESPIRATORY PROTECTION (SPECIFY TYPE)**

None required

**VENTILATION TO BE USED**

None required

LOCAL EXHAUSE OTHER (SPECIFY)

MECHANICAL (GENERAL)

SPECIAL

**PROTECTIVE GLOVES**

N/A

EYE PROTECTION

N/A

**OTHER PROTECTIVE CLOTHING AND EQUIPMENT**

N/A

**HYGIENIC WORK PRACTICES**

N/A



## MATERIAL SAFETY DATA SHEET

### 1. COMPANY AND PRODUCT IDENTIFICATION

**DUNCAN ENTERPRISES**  
5673 East Shields Avenue  
Fresno, CA 93727  
559-291-4444  
559-291-9444 (Fax)

#### EMERGENCY TELEPHONE NUMBERS

Health Emergency: 559-291-4444 7:00 am – 3:30 pm  
Pacific Standard Time  
Spill and Off-Hour  
Health Emergencies: 800-424-9300 U.S. and Canada  
703-527-3887 Outside U.S. and  
Canada (Collect)

**Product Name:** DUNCAN CRYSTALS & CRACKLES™ GLAZES  
**Product Type:** Nontoxic Ceramic Glaze

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

The ingredients in this formulation are a trade secret. All ingredients in the formula are non-hazardous, unless specified in Sections 3 and 15.

### 3. HAZARDS IDENTIFICATION

#### HMIS Hazard Ratings for Product

Health:	1	0 = Minimal
Flammability:	0	1 = Slight
Reactivity:	0	2 = Moderate
Personal Protection:	See Section 8	3 = Serious
		4 = Severe
		* = Chronic Effects

### 4. FIRST AID MEASURES

**Eye Contact:** Flush eyes with large amounts of water until irritation subsides. Consult a physician if irritation persists.

**Skin Contact:** Wash affected skin areas thoroughly with soap and water. Consult a physician if irritation persists.

**Inhalation:** Move subject to fresh air.

**Ingestion:** If swallowed, give two glasses of water to drink. Consult a physician. Never give anything by mouth to an unconscious person.

### 5. FIRE FIGHTING MEASURES

<b>Autoignition Temperature:</b>	Nonflammable
<b>Flash Point:</b>	Not Applicable
<b>Upper Explosive Limit (%):</b>	Not Applicable
<b>Lower Explosive Limit (%):</b>	Not Applicable
<b>Extinguisher Media:</b>	Product is nonflammable – Use extinguishing media appropriate for surrounding fire
<b>Special Firefighting Procedures:</b>	Not Applicable
<b>Fire &amp; Explosion Hazards:</b>	Not Applicable
<b>NFPA Flammability Hazard Class:</b>	0 = Insignificant

Duncan Enterprises Material Safety Data Sheet – Crystals & Crackles Glazes

**6. ACCIDENTAL RELEASE MEASURES**

**Spill or Leak Procedures:** Spills should be taken up with suitable absorbent material and placed in containers. Spill areas can be washed with water; collect wash water for approved disposal. Do not flush to storm sewer or waterway.

For safety and environmental precautions, please review entire Material Safety Data Sheet for necessary information.

**7. HANDLING AND STORAGE**

**Storage Temperature:** 40° - 100°F  
**Handling / Storage:** Protect from freezing; keep container sealed when not in use  
**Ventilation Requirements:** General

**8. EXPOSURE CONTROL AND PERSONAL PROTECTION**

**Conditions Under Which Personal Protective Equipment Required**

**Eye Protection Requirements:** Wear safety glasses with side shields  
**Glove Requirements:** Gloves are not normally required for foreseeable conditions of use  
**Clothing Requirements:** Protective clothing is normally not necessary for foreseeable conditions of use  
**Change / Removal of Clothing:** None required  
**Wash Requirements:** Good hygiene practices should be followed  
**Respirator Requirements:** NIOSH approved respirator for sprays and mists recommended if using a sprayer  
**Ventilation Requirements:** General; local exhaust ventilation recommended when spraying

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance / Physical Description:** Colored liquid. Odorless  
**pH:** 7 - 10  
**Boiling Point:** 212°F  
**Freezing Point:** 32°F  
**Melting Point:** 1800°F  
**Solubility in Water:** Miscible  
**Specific Gravity (Water = 1):** 1.3 – 1.8  
**Bulk Density:** 10.8 – 15.0 lb / gal  
**Evaporation Rate (Water = 1):** 1  
**Vapor Pressure:** 17.5 mm Hg @ 20°C (68°F)  
**Autoignition Temperature:** Not Applicable  
**Flash Point:** Not Applicable  
**Oxidizing Properties:** Not Applicable

**10. STABILITY AND REACTIVITY**

**Stability:** Stable  
**Incompatible Materials:** None known  
**NFPA Reactivity Hazard Class:** 0 = Insignificant  
**Hazardous Decomposition Products:** Avoid fumes when firing  
**Hazardous Polymerization:** Will not occur  
**Conditions to Avoid:** None Known



## Duncan Enterprises Material Safety Data Sheet – Crystals &amp; Crackles Glazes

**11. TOXICOLOGICAL INFORMATION****Short – Term Effects of Exposure**

Routes of Entry:      Inhalation: No      Skin Contact: No      Ingestion: Yes

**Acute Effects – Eye:** Abrasive, can scratch eyes  
**Acute Effects – Skin Contact:** No hazard in normal industrial use.  
**Acute Effects – Inhalation:** No hazard in normal industrial use.  
**Acute Effects – Ingestion:** No hazard in normal industrial use.

**Long – Term Effects of Exposure**

**Effect of Chronic Exposure:** This product should be considered non – hazardous and has no known chronic effects.

**Target Organs:** Not applicable  
**Carcinogenicity:** IARC Monographs: No      NTP: No      OSHA Regulated: No

**12. ECOLOGICAL INFORMATION**

No Applicable Data

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods:** Waste disposal should be in accordance with existing Federal, State, and Local environmental regulations.

**14. TRANSPORT INFORMATION****U.S. Department of Transportation Information**

**DOT Shipping Name:** Glazes or Stains, Ceramic or Pottery, Artists or Hobbyists Liquid  
**DOT Hazard Class:** 88690 Sub. 1  
**DOT Reportable Quantity:** None

**15. REGULATORY INFORMATION**

**TSCA:** All components are on the TSCA Inventory  
**FDA:** 21CFR175.105  
**SARA/Title III:** This product contains no substances at or above the reported threshold under Section 313, based on available data.



Products bearing the Nontoxic Product Seal are certified in a program of toxicological evaluation by a nationally recognized toxicologist to contain no materials in sufficient quantities to be toxic or injurious to humans or to cause acute or chronic health problems. These products are certified to be labeled in accordance with the voluntary chronic hazard labeling standard ASTM D-4236. In addition, there is no physical hazard as defined within 29 CFR Part 1910.1200(c).

**16. OTHER INFORMATION****Table of Abbreviations**

**ACGIH** American Conference of Governmental Industrial Hygienists  
**ANSI** American National Standards Institute  
**ASTM** American Society for Testing Materials  
**°C** Degrees Centigrade  
**CAS** Chemical Abstract Service

## Duncan Enterprises Material Safety Data Sheet – Crystals &amp; Crackles Glazes

## 16. OTHER INFORMATION (Continued)

**Table of Abbreviations (Continued)**

<b>CERCLA</b>	Comprehensive Environmental Response, Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>CPR</b>	Controlled Products Regulations
<b>DOT</b>	Department of Transportation
<b>EPA</b>	Environmental Protection Agency
<b>°F</b>	Degrees Fahrenheit
<b>FDA</b>	Food & Drug Administration
<b>Hg</b>	Mercury
<b>HMIS</b>	Hazardous Materials Identification System
<b>IARC</b>	International Agency for Research on Cancer
<b>LD</b>	Lethal Dose
<b>mg / kg</b>	Milligram per kilogram
<b>mm</b>	Millimeter
<b>MSDS</b>	Material Safety Data Sheet
<b>MSHA</b>	Mine Safety and Health Administration
<b>N / A</b>	Not Applicable
<b>NFPA</b>	National Fire Protection Association
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>ppm</b>	Parts per million
<b>SARA</b>	Superfund Amendment and Reauthorization Act
<b>STEL</b>	Short-Term Exposure Limit
<b>TSCA</b>	Toxic Substances Control Act
<b>TWA</b>	Time - Weighted Average
<b>U.N.</b>	United Nations
<b>WHMIS</b>	Workplace Hazardous Materials Information System
<b>&gt;</b>	Greater Than
<b>&lt;</b>	Less Than

**Creation Date:** 07/00  
**Revision Date:** 06/21/05  
**Technical Contact:** Candi Prado  
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**Disclaimer**

The information given and the recommendations made herein apply to our product(s) alone and not combined with any other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guarantee of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.