



Material Safety Data Sheet

F-158

Revision 2.0

Revision Date: 08/23/2012

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name(s): Purex® with Zout – Free & Clear, Fresh Morning Burst, Citrus (Canada)
Purex® Plus Oxi – Free & Clear, Fresh Morning Burst
Purex® Max

Product Use: Liquid Laundry Detergents

Formula IDH Number(s): 1452633 (w/Zout - F&C); 1452631 (w/Zout - Fresh Morning Burst); 1452632 (w/Zout -Citrus - Canada); 1716851 (Plus Oxi - F&C); 1696233 (Plus Oxi - Fresh Morning Burst); 1714491 (Max)

Company Address: The Dial Corporation, a Henkel Company; 19001 N Scottsdale Road; Scottsdale, AZ 85255-9672 USA

Contact Information: Medical Emergencies: 1-888-689-9082 CHEMTREC: 1-800-424-9300 (24 hours daily)

SECTION 2: HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION: This product is a clear to pale yellow or clear blue liquid with a fresh odor. Direct contact with eyes causes irritation. Ingestion of large quantities may cause nausea, vomiting, abdominal pain, diarrhea, and lethargy. Repeated or prolonged excessive exposure with skin can result in defatting and drying which may result in irritation and dermatitis. Inhalation of aerosols/mists may cause sensitization in some susceptible individuals. Keep out of reach of children. No significant environmental effects. Not a fire hazard. Product is stable.

This product is labeled in accordance with regulations administered by the Consumer Product Safety Commission. 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 Material Safety Data Sheet differ from the requirements of the CPSC and as a result, this MSDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

Regulatory Status: This material is considered to be hazardous under OSHA's Hazard Communication Standard (29 CFR 1900.1200). This MSDS should be retained and available for employees and other users of this product.

Potential Health Effects

NOTE: The acute health effects described below are those which could potentially occur for the finished product. They are based on the toxicology information available for the finished product and/or each hazardous ingredient, and are consistent with the product type and the likelihood of a specific route of exposure. Known chronic health effects related to exposure to a specific ingredient are indicated.

Eye Contact: Can cause moderate to severe irritation.

Skin Contact: Repeated or prolonged excessive exposure can result in defatting and drying of the skin which may result in irritation and dermatitis.

Ingestion: Ingestion of large quantities may cause gastrointestinal irritation with nausea, vomiting, diarrhea and lethargy.

Inhalation: Inhalation of product mists may cause respiratory tract irritation or sensitization in some susceptible individuals. Avoid inappropriate handling which may result in the generation of aerosol/mists.

Subchronic/Chronic Health Effects: No chronic health effects are expected from the intended use of this product.

Medical Conditions Generally Recognized As Being Aggravated By Exposure: Persons with pre-existing skin conditions, asthma, or respiratory allergies.

Potential Environmental Effects

See Section 12: Ecological Information.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Based on our hazard evaluation, the following chemical substance(s) in this product have been identified as hazardous.

<u>Ingredient</u>	<u>CAS Number</u>	<u>Percent (w/w)</u>
Sodium Laureth Sulfate	68585-34-2	5 – 10 %
Alcohol Ethoxylate	68213-23-0 or 68551-12-2	1 – 5 %
Sodium Chloride	7647-14-5	1 – 5 %
Enzymes (Protease, Amylase & Mannanase)	9014-01-1 / 9000-90-2 / 37288-54-3	0.1 – 1 %

SECTION 4: FIRST AID MEASURES

Eyes: Immediately rinse eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids, until no evidence of product remains. Get medical attention if pain or irritation persists.

Skin Rinse affected area with large amounts of water until no evidence of product remains. Get medical attention if 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 if any symptoms appear.

Inhalation: Remove from exposure area to fresh air. If any symptoms appear, get medical attention.

Note to Physician: The physician's judgment should be used to control symptoms and clinical condition based on the individual reactions of the patient.

SECTION 5: FIRE FIGHTING MEASURES**Flammable Properties**

OSHA Flammability Classification:	Not applicable	Flash Point:	None
Auto-Ignition Temperature:	Not applicable	Flame Projection:	Not available
Flammable/Explosive limits – lower:	Not available	Flammable/Explosive limits – upper:	Not available
Hazardous Combustion Products:	Oxides of carbon and oxides of nitrogen.		

Fire and Explosion Hazard: Negligible fire hazard when exposed to heat or flame.

Extinguishing Media

Dry chemical, carbon dioxide, water spray or regular foam.

Protection of Firefighters

In case of fire, wear a full-face positive-pressure self-contained breathing apparatus and protective suit. Move container 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 vapors; keep upwind.

SECTION 6: ACCIDENTAL RELEASE MEASURES**Personal Precautions:**

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. Ensure clean-up is conducted by trained personnel only. 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 for Containment and Clean-Up:

SMALL SPILLS: Contain and absorb with sand or other 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.

SECTION 7: HANDLING AND STORAGE

Handling: Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Avoid generating aerosols and mists. Keep the containers closed when not in use.

Storage: Store in original containers in a cool dry area. Store away from excessive heat and incompatible substances. Storage areas for large quantities (warehouse) should be well ventilated. Keep the containers tightly closed when not in use.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

This product is a laundry care product. The use of this product by consumers is safe under normal and reasonable foreseen use. The information provided below refers to the occupational settings.

Worker Exposure Limits

Ingredient	ACGIH TLV	OSHA PEL	AIHA WEEL	NIOSH
Protease	Ceiling: 0.00006 mg/m ³ (subtilisins)	N/A	N/A	N/A

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.

Respirator:

Liquid Laundry Detergents

MSDS F-158 (Rev. 2)

If respiratory protection is required, it must be based on the contamination levels found in the workplace, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

For Fire Fighting and Other Immediately Dangerous To Life or Health Conditions:

Any self-contained breathing apparatus that has a full-face piece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator that has a full-face piece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure demand or other positive-pressure mode.

Clothing: Protective clothing is required where repeated or prolonged skin contact may occur.

Gloves: Chemical-resistant gloves are required where repeated or prolonged skin contact may occur.

Eye/Face Protection: Splash-proof safety glasses are required to prevent eye contact where splashing of product may occur.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear to pale yellow or clear blue	Physical state:	Liquid
Odor:	Fresh	Odor threshold:	None
Boiling point:	Not available	Evaporation rate:	Not available
Melting point:	Not available	Vapor density:	Not available
Specific gravity:	1.03 @ 25 °C	Vapor pressure:	Not available
pH:	7.1 – 8.1	Water solubility:	Complete
Partition coefficient (n-octanol/water):	Not available	Viscosity (Dynamic):	400 - 800 cps @ 25°C
Flammable Properties:	See Section 5		

SECTION 10: STABILITY AND REACTIVITY

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

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

Incompatible Materials: Strong oxidizers and reducing agents.

Hazardous Decomposition Products: Thermal decomposition products may include toxic oxides of carbon and oxides nitrogen.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur under normal temperatures and pressures.

SECTION 11: TOXICOLOGICAL INFORMATION

Product Information Summary: This product is a laundry care product. The use of this product by consumers is safe under normal and reasonable foreseen use. Direct contact with eyes causes irritation. Ingestion of large quantities may cause nausea, vomiting, abdominal pain, diarrhea, and lethargy. Repeated or prolonged excessive exposure with skin can result in defatting and drying which may result in irritation and dermatitis. Inhalation of aerosols/mists may cause sensitization in some susceptible individuals.

Component Analysis: The following toxicity information is for the hazardous ingredient(s) when used as technical grade and is provided as reference for the occupational settings.

Ingredient	LD50 / Draize Score	Toxicity / Irritation Rating
<u>Acute Oral Toxicity</u>		
Sodium Chloride	3,000 mg/kg (rat)	Practically Non-hazardous
Sodium Laureth Sulfate	1,600 mg/kg (rat)	Moderately toxic
Alcohol Ethoxylate	> 2,000 mg/kg (rat)	Moderately toxic
<u>Eye Irritation</u>		
Sodium Laureth Sulfate	17-65 / 110 (rabbit)	Moderate-Severely Irritating
<u>Skin Irritation</u>		
Sodium Laureth Sulfate	6.33 / 8 (rabbit)	Severely Irritating

Sensitization: This product contains the enzymes amylase and protease which are known to be sensitizers.

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.

Reproductive/Fetal/Developmental effects: None of the ingredients in this product are known to have reproductive, fetal, or developmental hazards.

Target organ toxicity: None of the ingredients in this product are known to have target organ toxicity.

Epidemiological information: None of the ingredients in this product are known to have health-related information in working populations.

SECTION 12: ECOLOGICAL INFORMATION

The Dial Corporation, a Henkel Company; 19001 N Scottsdale Road; Scottsdale, AZ 85255-9672 USA

Liquid Laundry Detergents**MSDS F-158 (Rev. 2)**

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.

Product / Ingredient	LC50/EC50 (Animal Specie)	Toxicity Rating
<u>Vertebrates</u> Sodium Chloride	96h LC50: 9,675 (Lepomis macrochirus)(flow-through)	Non-hazardous
<u>Invertebrates</u> Sodium Chloride	48h EC50: 1,000 (Daphnia magna)	Non-hazardous

Environmental Fate: No environmental fate data exists for the product. The product is anticipated biodegradable.

Persistence and Degradability: The persistence and degradability of this product has not been determined.

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.

SECTION 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: Not applicable.

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

SECTION 14: TRANSPORT INFORMATION

DOT Transportation of Dangerous Goods – Ground

DOT Hazard Class:	Not regulated	Packing Group:	Not applicable
DOT Proper Shipping Name:	Not applicable	Shipping Label Information:	Not applicable
UN/NA Number:	Not applicable		

International Air Transportation (ICAO/IATA)

ICAO/IATA Hazard Class:	Not regulated
ICAO/IATA Proper Shipping Name:	Not applicable

Water Transportation (IMO/IMDG)

IMO/IMDG Hazard Class:	Not regulated
IMO/IMDG Proper Shipping Name:	Not applicable

SECTION 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:

Consumer Product Safety Commission (CPSC): This product is regulated as a consumer product under CPSC.

TSCA: All components of this product are either listed on or exempt from the U.S. Toxic Substances Control Act (TSCA) chemical substance inventory.

EPA CERCLA/SARA TITLE III Superfund Amendment and Reauthorization Act: This product contains no CERCLA/SARA Title III materials

CERCLA/SARA Section 302 EHS: This product contains no extremely hazardous substances reportable under Section 302.

CERCLA/SARA 311/312: This product contains no hazardous chemicals reportable under Sections 311/312

CERCLA/SARA 313: Not applicable - Consumer product

State Regulations

California Proposition 65: This product does not contain substances listed under California Proposition 65.

Canada Regulatory Information:**Canadian Environmental Protection Act:**

Inventory Status: All components of this product are listed on either the Canadian Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL).

Health Canada:

This product is not regulated by Health Canada.

Worker Hazardous Materials Information System:

WHMIS Classification: D2B (Irritating)

SECTION 16: OTHER INFORMATION

DISCLAIMER: The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, The Dial Corporation makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular purpose. Accordingly, The Dial Corporation will not be responsible for damages of any kind resulting from the use of or reliance upon such information. No representations, or warranties, either expressed or implied of merchantability, fitness for a particular purpose or of any other nature is made hereunder with respect to the information set forth herein or to the product to which the information refers.

NFPA RATINGS (Scale 0-4, where 4=high degree of hazard): HEALTH=1 FLAMMABILITY=0 REACTIVITY=0
HMIS RATINGS (Scale 0-4, where 4=high degree of hazard): HEALTH=1 FLAMMABILITY=0 REACTIVITY=0

Creation Date: 09/27/2010
Revision: Updated Trade Names

Supersedes: Rev. 1, 12/07/2011