

MATERIAL SAFETY DATA SHEET

MSDS G-113 REVISION 1

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

The Dial Corporation
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Medical Emergencies: 1-888-689-9082
CHEMTREC: 1-800-424-9300 (24 Hours Daily)

PRODUCT: Purex® UltraPacks DATE OF ISSUE: November 26, 2012
TRADE NAMES/SYNONYMS: Purex® UltraPacks Liquid Laundry Detergent – Free & Clear, Mountain Breeze
CHEMICAL FAMILY: Mixture
I.D.H. NUMBERS: 1599132, 1721537 (Free & Clear); 1599135, 1720463 (Mountain Breeze)

SECTION 2: HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: Harmful if swallowed. In case of ingestion call poison control or a doctor immediately. Do not induce vomiting. Rinse mouth; give a small glass of water or milk. Direct contact with eyes causes irritation. Repeated or prolonged excessive exposure with skin can result in defatting and drying which may result in irritation and dermatitis. Keep out of reach of children. No significant environmental effects. Combustible liquid – keep away from fire or flame. 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: This product may cause moderate-to-severe irritation with pain, tearing, and blurred vision.
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 may cause severe irritation or burns to esophagus, mouth, and stomach with nausea, vomiting and diarrhea. Ingestion may result in drowsiness in severe cases.
INHALATION: Not an anticipated route of entry. Mists/vapors may cause central nervous system effects and irritation of the throat and lungs with coughing..

SUBCHRONIC/CHRONIC HEALTH EFFECTS: Due to the nature and composition of this product no subchronic/chronic health effects are anticipated. Nonetheless, the following effects have been reported for one of the product's components.

Ethyl Alcohol: The normal use of this product is not expected to produce these effects. Chronic oral studies in laboratory animals have resulted in effects such as liver damage, teratogenicity, embryotoxicity, and fetotoxicity. The newborns of alcoholic mothers may exhibit fetal alcohol syndrome. Human consumption of alcoholic beverages has been causally related to the occurrence of malignant tumors of the oral cavity, pharynx, larynx, esophagus, and liver.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: Persons with history of chronic skin and respiratory conditions.

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>
Alcohol Ethoxylates	68213-23-0 / 68551-12-2 / 64425-86-1	15 – 40 %
Glycerin	56-81-5	10 – 30 %
Alkylbenzolsulfonate-MEA	Mixture	0 – 30 %
Alcohol Ether Sulfate	68081-91-4	0 – 30 %
Propylene Glycol	57-55-6	5 – 15 %
Ethanol	64-17-5	1 – 5 %

SECTION 4: FIRST AID MEASURES

INGESTION: Treat symptomatically and supportively. Maintain airway and respiration. If vomiting occurs, keep head below hips to prevent aspiration. Dilution by rinsing the mouth and giving a glass of water to drink is generally recommended. If unconscious, the victim should not be given anything to drink. Contact physician or local poison control center.

EYES: Immediately rinse eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention if pain or irritation persist.

SKIN: Rinse affected area with large amounts of water until no evidence of product remains. Get medical attention if irritation persists.

INHALATION: Remove from exposure area to fresh air. Keep affected person warm and at rest. Treat symptomatically and supportively.

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: Combustible Liquid Class II

FLASH POINT (Pensky-Martens): 126.5°F(52.5°C) – Mountain Breeze; 128.3°F(53.5°C) – Free & Clear

UPPER FLAMMABILITY LIMIT: Not available

LOWER FLAMMABILITY LIMIT: Not available

AUTO-IGNITION TEMPERATURE: Not available

FIRE AND EXPLOSION HAZARD: Product does not sustain combustion according to method DIN EN ISO 2719 (measurement of flash point by Pensky-Martens).

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and oxides of nitrogen.

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.

Shut off ignition sources. Stop leak if you can do it without risk. Use water spray to reduce vapors. Isolate area until vapors have dispersed. No smoking, flames or flares in hazard area! Keep unnecessary people away; isolate hazard area and deny entry. Ventilate closed spaces before entering. Stay upwind; keep out of low areas.

SMALL SPILLS: Contain and absorb with sand or other non-combustible material. Containerize for 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:

Avoid contact with eyes, skin and clothing. Do not take internally. Use with adequate ventilation. Avoid generating aerosols and mists. Keep the containers closed when not in use. Wash thoroughly after handling

STORAGE:

Product does not sustain combustion according to method DIN EN ISO 2719. Store away from incompatible substances, excessive heat, flames, sparks or other ignition sources. 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.

SECTION 8: EXPOSURE CONTROL / 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

The following exposure limits exist for the ingredients listed below. The TLV-TWA is the ACGIH Threshold Limit Value – Time Weighted Average. TLV-Ceiling Limit is the ACGIH Threshold Limit Value – Ceiling Limit. PEL-TWA is the OSHA Permissible Exposure Limit.

INGREDIENT	CAS NUMBER	EXPOSURE LIMIT
Glycerin	56-81-5	TLV-TWA: 10 mg/m ³ (mist), PEL-TWA: 5mg/m ³ (respirable fraction), PEL-TWA: 10mg/m ³ (total mist)
Ethanol	64-17-5	TLV-TWA: 1000 ppm (1880 mg/m ³), PEL-TWA: 1000 ppm (1880 mg/m ³)

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: 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. 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 facepiece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator that has a full facepiece 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 (impervious to liquids) is required where splashing of product 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 liquid.		
ODOR/ODOR THRESHOLD:	Pleasant fragrance	PHYSICAL STATE:	Liquid
pH (@ 25°C):	8.0 – 11.0	VAPOR DENSITY:	Not available
BOILING POINT:	Not available	VAPOR PRESSURE:	Not available
MELTING/FREEZING POINT:	Not available	FLASH POINT:	See Section 5.
FLAMMABLE PROPERTIES:	See Section 5.	SOLUBILITY IN WATER:	Complete
DENSITY/SPECIFIC GRAVITY:	1.030 – 1.061 g/ml @ 25°C	EVAPORATION RATE:	Not available
OCTANOL/WATER PARTITION COEFFICIENT (K _{ow}):	Not available		
VISCOSITY:	300 - 600 cps @ 25°C	CLOUD POINT:	Not determined

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 oxides of carbon.

POSSIBILITY OF HAZARDOUS REACTIONS: 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 may cause irritation. It may be harmful if swallowed. Repeated or prolonged excessive exposure with skin can result in defatting and drying which may result in irritation and dermatitis.

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.

PRODUCT / INGREDIENT	LD50 / DRAIZE SCORE	TOXICITY / IRRITATION RATING
ACUTE ORAL TOXICITY		
Alcohol Ethoxylate	> 2,000 mg/kg (rat)	Practically Non-hazardous
Glycerin	12,600 mg/kg (rat)	Non-hazardous
Ethanol	> 5,000 mg/kg (rat)	Practically Non-hazardous
ACUTE DERMAL TOXICITY		
Glycerin	> 10,000 mg/kg (rabbit)	Non-hazardous
ACUTE INHALATION TOXICITY		
Ethanol	20,000 ppm for 10H (rat)	Practically Non-hazardous

SENSITIZATION: This product is not considered a skin or respiratory sensitizer.

CARCINOGENICITY: IARC classifies ethanol as "Human Sufficient Evidence" from chronic ingestion of alcoholic beverages.

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

REPRODUCTIVE/FETAL/DEVELOPMENTAL TOXICITY: Ethanol crosses the placenta and can cause acute intoxication of the newborn or teratogenic effects, including fetal alcohol syndrome.

TARGET ORGAN TOXICITY: Ethanol consumption produces depressant effects in the central nervous system.

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

SECTION 12: ECOLOGICAL INFORMATION

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 / ED50 (mg/L)	TOXICITY RATING
VERTEBRATES		
Alcohol Ethoxylate	96h LC50: 1 - 10 mg/l (fish)	Toxic
Glycerin	96-hr LC50: 50 mg/L (Oncorhynchus mykiss)	Harmful
Propylene Glycol	96h LC50: 700 mg/l (Pimephales promelas) (static)	Practically Non-hazardous
Ethanol	96-hr LC50: 12,900 mg/L (Oncorhynchus mykiss) (flow-through) (30 days old)	Practically Non-Hazardous
INVERTEBRATES		
Alcohol Ethoxylate	48h EC50: 1 - 10 mg/l (Daphnia magna)	Toxic
Glycerin	24-hr EC50: > 500 mg/L (Daphnia magna)	Practically Non-Hazardous
Propylene Glycol	48h EC50: >1,000 mg/l (Daphnia magna)	Practically Non-hazardous
Ethanol	48-hr EC50: 9,268 mg/L (Daphnia magna)	Practically Non-Hazardous

ENVIRONMENTAL FATE: No environmental fate data exists for the product. The product is anticipated to be rapidly 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:D001 (Ignitable).

DISPOSAL CONSIDERATIONS: This product is characteristic (ignitable) RCRA hazardous waste and must be disposed of in accordance with federal, state and local regulations.

SECTION 14: TRANSPORT INFORMATION

TERRESTRIAL TRANSPORT

DOT Hazard Class: Non Hazardous

Refer to DOT Regulations 49 CFR §173.120(a) exception (3) for flammable liquids "Any liquid with a flash point greater than 35°C (95°F) that does not sustain combustion according to ASTM D 4206..."

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Number: Non Hazardous

Refer to IATA Dangerous Goods Regulations § 3.3.1.3 "Liquids with a flash point exceeding 35°C (95°F) which do not sustain combustion need not be considered as flammable liquids for the purposes of these Regulations, if...they have passed a suitable test for combustibility.."

MARINE TRANSPORT (IMDG/IMO)

IMDG/IMO Number: Non Hazardous

Refer to DOT Regulations 49 CFR §173.120(a) exception (3) for flammable liquids "Any liquid with a flash point greater than 35°C (95°F) that does not sustain combustion according to ASTM D 4206..."

If the quantity being shipped exceeds the Limited quantity or Maximum Net Quantity requirements as stated in IATA/IMDG/DOT/CFR49 and/or is NOT RETAIL Packed the item (s) classification will shift to a more specific proper shipping name and classification. Please refer to IATA/IMDG/DOT/CFR49 regulations and/or contact Rich Sheridan 480 754 2379 or Paul Preston 480 754 6792.

SECTION 15: REGULATORY INFORMATION

UNITED STATES:

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:

The Occupational Safety and Health Administration requires Material Safety Data Sheets to provide any hazards 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 additional health hazard information not pertinent to consumer use.

EPA - SARA TITLE III SECTION 313: Not applicable - Consumer product.

EPA CERCLA/SARA TITLE III SUPERFUND AMENDMENT AND REAUTHORIZATION ACT:

This product contains no CERCLA/SARA Title III materials. This product contains no hazardous chemicals reportable under Sections 311/312. This product contains no hazardous chemicals reportable under Section 304.

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

STATE REGULATIONS

CALIFORNIA PROPOSITION 65: Ethanol in alcoholic beverages is listed for developmental effects.

CANADA:

CANADIAN ENVIRONMENTAL PROTECTION ACT:

INVENTORY STATUS: Some components of this product are not listed on the Canadian Domestic Substances List (DSL) nor the NDSL.

WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM:

WHMIS CLASSIFICATION: D2B, B3- Combustible Liquid

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=2 FLAMMABILITY=2 REACTIVITY=0

HMIS RATINGS (Scale 0-4, where 4=severe hazard): HEALTH=2 FLAMMABILITY=2 REACTIVITY=0

MSDS CREATION DATE: 09/13/11

SUPERCEDES: Ver. 0, 09/13/12

REVISION DATE: 11/26/12

REVISION: Updated Formula I.D. Numbers, Formula Composition, Physical/Chemical Properties, Tox/Ecotox Data.