

# MATERIAL SAFETY DATA SHEET

## MSDS B-106 REVISION 7

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

The Dial Corporation  
19001 N. Scottsdale Road  
Scottsdale, Arizona 85255-9672

Medical Emergencies: 1-888-689-9082  
Chemtrec: 1-800-424-9300 (24 Hours Daily)  
Other Information: 1-888-468-6673

PRODUCT: Roll-On Antiperspirant DATE OF ISSUE: February 25, 2009

TRADE NAMES/SYNONYMS: Dial® Roll-On Antiperspirant - Scented

CHEMICAL FAMILY: Mixture

I.D. NUMBERS: 903638

### SECTION 2: HAZARD IDENTIFICATION

#### EMERGENCY OVERVIEW

**CAUTION:** This product is an off-white liquid with a pleasant fragrance. Direct contact with eyes may cause slight irritation. No adverse effects are anticipated to skin from normal use. No significant environmental effects. Not a fire hazard. Product is stable.

This product is labeled in accordance with guidelines set forth in the Food, Drug, and Cosmetic Act. 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 may differ from the requirements of the FD&C Act 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

While this product is not considered to be hazardous under OSHA's Hazard Communication Standard (29 CFR 1900.1200), this MSDS includes valuable information that is critical for safe handling and proper use of this product. 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 slight irritation.

**SKIN CONTACT:** Repeated or prolonged excessive exposure may cause irritation or sensitization dermatitis in previously exposed individuals.

**INGESTION:** Nausea and possible vomiting may occur.

**INHALATION:** Unlikely to occur due to the physical properties of the product.

**SUBCHRONIC/CHRONIC HEALTH EFFECTS:** Although unlikely to occur given the nature of the finished product, the following effects have been reported for one of the product's components.

*Aluminum Zirconium Tetrachlorohydrate Gly:* Inhalation of zirconium salts may elicit allergic reactions in sensitive persons, and may cause sarcoid-like granulomas in the lungs.

**MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE:** Pre-existing skin 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>
Aluminum Zirconium Tetrachlorohydrate Gly	134910-86-4	10 – 30 %
Aluminum Starch Octenylsuccinate	9087-61-0	1 – 5 %
Glycine	56-40-6	1 – 5 %
Cetyl Alcohol	36653-82-4	1 – 5 %
Isopropyl Myristate	110-27-0	1 – 5 %

**SECTION 4: FIRST AID MEASURES**

**EYES:** Rinse eyes with plenty of water until no evidence of product remains. Get medical attention if pain or irritation develops.

**SKIN:** Rinse affected area with mild soap and water until no evidence of product remains. Discontinue exposure. Get medical attention if irritation persists.

**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 water or milk to drink is generally recommended. If unconscious, the victim should not be given anything to drink. Contact physician or local poison control center.

**INHALATION:** Immediately remove from exposure area to fresh air. Keep affected person warm and at rest. Treat symptomatically and supportively. Contact physician or local poison control center. If breathing has stopped, give artificial respiration, and get medical attention immediately.

**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: Not available

UPPER FLAMMABILITY LIMIT: Not available

LOWER FLAMMABILITY LIMIT: Not available

AUTO-IGNITION TEMPERATURE: Not applicable

FIRE AND EXPLOSION HAZARD: Negligible fire hazard when exposed to heat or flame.

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. 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: Pick up small spills with towels, tissue, etc. and place into containers for later disposal. Wash residue 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.

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## SECTION 7: HANDLING AND STORAGE

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#### HANDLING:

No unusual handling requirements. Do not get in eyes. Do not take internally.

#### STORAGE:

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.

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## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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This product is a personal care or cosmetic 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-STEL is the ACGIH Threshold Limit Value – Short-Term Exposure Limit. PEL-TWA is the OSHA Permissible Exposure Limit - Time Weighted Average, PEL-STEL is the OSHA Permissible Exposure Limit - Short-Term Exposure Limit.

INGREDIENT	CAS NUMBER	EXPOSURE LIMIT
Aluminum Zirconium	134910-86-4	Zirconium Compounds (as Zr): TLV-TWA: 5 mg/m <sup>3</sup> , PEL-TWA: 5 mg/m <sup>3</sup> , TLV-STEL: 10 mg/m <sup>3</sup> , PEL-STEL: 10 mg/m <sup>3</sup> .
Tetrachlorohydrox Gly		Aluminum, Soluble Salts (as Al): TLV-TWA: 2 mg/m <sup>3</sup>

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-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: Protective clothing is 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.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE: Off-white liquid

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ODOR/ODOR THRESHOLD:	Pleasant fragrance	PHYSICAL STATE:	Liquid
pH (@ 25°C):	4.2 max. as is @ 25°C	VAPOR DENSITY:	Not available
BOILING POINT:	>200 °F (>93°C)	VAPOR PRESSURE:	Not available
MELTING/FREEZING POINT:	Not available	FLASH POINT:	See Section 5.
FLAMMABLE PROPERTIES:	See Section 5.	SOLUBILITY IN WATER:	Negligible
DENSITY/SPECIFIC GRAVITY:	1.15	EVAPORATION RATE:	Not available
OCTANOL/WATER PARTITION COEFFICIENT (K <sub>ow</sub> ):	Not available		
VISCOSITY (Dynamic):	1900 – 3200 cps		

## 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, alkalis, acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may release toxic and/or hazardous gases.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

## SECTION 11: TOXICOLOGICAL INFORMATION

**PRODUCT INFORMATION SUMMARY:** This product is a personal care or cosmetic product. The use of this product by consumers is safe under normal and reasonable foreseen use. Direct contact with eyes may cause irritation. No adverse effects are anticipated to skin from normal use.

**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
<b>ACUTE ORAL TOXICITY</b>		
Glycine	7,930 mg/kg (rat)	Practically Non-hazardous
Isopropyl Myristate	>10,000 mg/kg (rat)	Non-hazardous
Cetyl Alcohol	5,000 mg/kg (rat)	Practically Non-hazardous
<b>ACUTE DERMAL TOXICITY</b>		
Isopropyl Myristate	5,000 mg/kg (rabbit)	Practically Non-hazardous
Cetyl Alcohol	2,600 mg/kg (rabbit)	Toxic

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

**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 TOXICITY:** None of the ingredients in this product are known as 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

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
<b>VERTEBRATES</b>		
Isopropyl Myristate	96 Hr LC50: 8,400 mg/L (Brachydanio rerio: semi-static)	Non-hazardous
<b>INVERTEBRATES</b>		
Isopropyl Myristate	48 Hr EC50: 100 mg/L (Daphnia magna)	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:** Not applicable, not regulated.

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

## SECTION 14: TRANSPORT INFORMATION

### GROUND TRANSPORT

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

### AIR TRANSPORT (ICAO/IATA)

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

### MARINE TRANSPORT (IMDG/IMO)

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

## 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.

**FOOD AND DRUG ADMINISTRATION:**

This product is regulated as a cosmetic under the Food and Drug Administration.

**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 the U.S. Toxic Substances Control Act (TSCA) chemical substance inventory, none are subject to Section 12(b) Export Notification.

**STATE REGULATIONS**

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

**CANADA:**

## CANADIAN ENVIRONMENTAL PROTECTION ACT:

INVENTORY STATUS: Magnesium Aluminum Silicate (CAS# 12199-37-0) and Laureth-4 (CAS#5274-68-0) are on the Canadian Non-Domestic Substances List. Glyceryl Stearate (CAS# 85666-92-8) is on the "In Commerce" list.

## HEALTH CANADA:

This product is regulated as a natural health product under the Natural Health Products Directorate.

## WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM:

WHMIS CLASSIFICATION: Not subject to classification.

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**SECTION 16: OTHER INFORMATION**

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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=1 REACTIVITY=0

HMIS RATINGS (Scale 0-4, where 4=severe hazard): HEALTH=0 FLAMMABILITY=1 REACTIVITY=0

MSDS CREATION DATE: 03/15/89

SUPERCEDES: 09/06/07, Rev. 6

REVISION DATE: 02/25/09

REVISION: Update Company Information.