

**MATERIAL SAFETY DATA SHEET**  
**MSDS B-112 REVISION 3**

04-002-162

**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: CLEAR GEL ANTIPERSPIRANT DATE OF ISSUE: February 25, 2009

TRADE NAMES/SYNONYMS: Dry Idea® Clear Gel Antiperspirant – Fresh Clean, Powder Fresh, Unscented  
Right Guard® Sport Clear Gel Antiperspirant – Active, Clean, Cool, Fresh  
Right Guard® Xtreme Clear Gel Antiperspirant – Arctic Refresh, Energy, Fresh Blast  
Right Guard® Xtreme Power Caps Clear Gel Antiperspirant – Energy, Chill  
Soft & Dri® Clear Gel Antiperspirant – Baby Powder, Clean & Cool, Powder Fresh, Soft Scent  
Soft & Dri® Power Caps Clear Gel Antiperspirant – Citrus Squeeze, Kissed Peach

CHEMICAL FAMILY: Mixture

I.D. NUMBERS: 99102584, 99102841 (DI Unscented); 99102582, 99102839 (DI Fresh Clean); 99102586, 99102843 (DI Powder Fresh); 99102590 (RG Sport Active); 99102586 (RG Sport Clean); 99102588 (RG Sport Cool); 99102589 (RG Sport Fresh); 99102593, 99102989 (RG Xtreme Arctic Refresh); 99102592, 99102988 (RG Xtreme Energy); 99102591, 99102987 (RG Xtreme Fresh Blast); 99102697 (RG Xtreme PC Energy); 99120699 (RG Xtreme PC Chill); 99102844, 99102587 (SD Baby Powder); 99102840, 99102583 (SD Clean & Cool); 99102586 (SD Powder Fresh); 99102585, 99120842 (SD Soft Scent); 99102703 (SD PC Citrus Squeeze); 99102701 (SD PC Kissed Peach)

**SECTION 2: HAZARD IDENTIFICATION**

**EMERGENCY OVERVIEW**

CAUTION: This product is an translucent solid 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: No adverse effects anticipated from normal use.

INGESTION: Nausea and possible vomiting may occur.

INHALATION: No adverse effects anticipated from normal use.

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**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:* 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. Normal use of this product is not expected to produce these effects.

**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 %
Ethyl Alcohol	64-17-5	10 – 30 %
Propylene Glycol	57-55-6	5 – 10 %
Cyclopentasiloxane and PEG/PPG-18/18 Dimethicone	541-02-6	5 – 10 %
Dimethicone	9006-65-9	1 – 5 %
Trisiloxane	2895-07-0	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:** First aid measures not required.

**INGESTION:** Treat symptomatically and supportively. 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.

**INHALATION:** First aid measures not required.

**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: 41° C (Closed Cup)  
UPPER FLAMMABILITY LIMIT: = 19%      LOWER FLAMMABILITY LIMIT: = 3.3%  
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.

## SECTION 7: HANDLING AND STORAGE

### 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.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

This product is a personal 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-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 Tetrachlorohydrate Gly	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> . Aluminum, Soluble Salts (as Al): TLV-TWA: 2 mg/m <sup>3</sup>
Ethyl Alcohol	64-17-5	TLV-TWA: 1000 ppm (1880 mg/m <sup>3</sup> ), PEL-TWA: 1000 ppm (1880 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:	Slightly amber gel	PHYSICAL STATE:	Solid
ODOR/ODOR THRESHOLD:	Pleasant fragrance	VAPOR DENSITY:	Not available
pH (@ 25°C):	Not available	VAPOR PRESSURE:	Not available
BOILING POINT:	Not available	FLASH POINT:	See Section 5.
MELTING/FREEZING POINT:	Not available	SOLUBILITY IN WATER:	Negligible
FLAMMABLE PROPERTIES:	See Section 5.	EVAPORATION RATE:	Not available
DENSITY/SPECIFIC GRAVITY:	1.12		
OCTANOL/WATER PARTITION COEFFICIENT (K <sub>ow</sub> ):	Not available		
VISCOSITY (Dynamic):	Not applicable		

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## SECTION 10: STABILITY AND REACTIVITY

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**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

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may release toxic and/or hazardous gases, including hydrogen chloride and silicon dioxide.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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**PRODUCT INFORMATION SUMMARY:** This product is a personal care product. The use of this product by consumers is safe under normal and reasonable foreseen use. Direct contact with eyes may cause slight 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>		
Propylene Glycol	> 5000 mg/kg (rat)	Practically Non-hazardous
Ethyl Alcohol	> 5,000 mg/kg (rat)	Practically Non-hazardous
<b>ACUTE DERMAL TOXICITY</b>		
Propylene Glycol	> 5000 mg/kg (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/EC50 (ANIMAL SPECIE)	TOXICITY RATING
VERTEBRATES		
Ethyl Alcohol	96-hr LC50: 14.2 mg/L (Pimephales promelas) 96-hr LC50: 12,900 mg/L (Oncorhynchus mykiss) (flow-through) (30 days old)	Harmful  Practically Non-Hazardous
INVERTEBRATES		
Ethyl Alcohol	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:** 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

### TERRESTRIAL TRANSPORT

DOT Hazard Class:	ORM-D	Packing Group:	II
DOT Proper Shipping Name:	Consumer Commodity	Shipping Label Information:	Miscellaneous 9
UN/NA Number:	ID 8000		

Combustible liquid (Liters and smaller are classed as Consumer Commodity ORM-D except when shipped by air).

### AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Hazard Class:	ORM-D ID 8000
ICAO/IATA Proper Shipping Name:	Consumer Commodity

### MARINE TRANSPORT (IMDG/IMO)

IMDG/IMO Hazard Class:	ORM-D
Proper Shipping Name:	Consumer commodity

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.

**FOOD AND DRUG ADMINISTRATION:**

This product is regulated as an over-the-counter drug product 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 either listed on or exempt from the U.S. Toxic Substances Control Act (TSCA) chemical substance inventory.

**STATE REGULATIONS**

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

**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.

**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=1 FLAMMABILITY=1 REACTIVITY=0

MSDS CREATION DATE: 06/05/07

SUPERCEDES: 06/26/08, Rev. 3

REVISION DATE: 02/25/09

REVISION: Update Company Information.