

# MATERIAL SAFETY DATA SHEET

## MSDS B-101 REVISION 10

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CENTER FOR INNOVATION  
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### SUBSTANCE IDENTIFICATION

SUBSTANCE: AEROSOL ANTIPERSPIRANT

TRADE NAMES/SYNONYMS: **DIAL® AEROSOL ANTIPERSPIRANT: REGULAR SCENT, UNSCENTED**

CHEMICAL FAMILY: Mixture

I.D. NUMBERS: 903813 (Regular), 903817 (Unscented)

NFPA RATINGS (Scale 0-4, where 4=high degree of hazard): HEALTH=2 FLAMMABILITY=2 REACTIVITY=1  
HMIS RATINGS (Scale 0-4, where 4=severe hazard): HEALTH=2 FLAMMABILITY=2 REACTIVITY=1

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.

### HAZARDOUS INGREDIENT INFORMATION

COMPONENT: ALUMINUM CHLOROHYDRATE CAS# 1327-41-9  
ALUMINUM, SOLUBLE SALTS, (as AL):  
2 mg/m<sup>3</sup> ACGIH TWA

COMPONENT: ISOBUTANE CAS# 75-28-5  
As Aliphatic Hydrocarbon Gases (Alkane [C1 – C4]:  
1000ppm (1800 mg/m<sup>3</sup>) ACGIH TWA  
800 ppm (1900 mg/m<sup>3</sup>) NIOSH TWA

COMPONENT: PROPANE CAS# 74-98-6  
As Aliphatic Hydrocarbon Gases (Alkane [C1 – C4]:  
1000 ppm (1800 mg/m<sup>3</sup>) OSHA and ACGIH TWA

Carcinogen status of components: Not listed as carcinogens by NTP, IARC, or OSHA.

### PHYSICAL AND CHEMICAL DATA

DESCRIPTION: White aerosol with pleasant fragrance.

### FIRE AND EXPLOSION DATA

FLAME EXTENSION: <18 in.

FIRE AND EXPLOSION HAZARD - Fire hazard when exposed to heat or flame. Aerosol cans may rupture in heat or fire conditions. Mixtures with air are highly flammable. Vapors are heavier than air and may travel to an ignition source.

**FIRE FIGHTING MEDIA** - Dry chemical or carbon dioxide. For larger fires, use water spray, fog or regular foam.

**FIRE FIGHTING - FIRE FIGHTING** - 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 fog. Cool product aerosol cans with flooding amounts of water from as far a distance as possible. Avoid breathing vapors; keep upwind. As with any containerized or pressurized chemicals, in the event of overheating or direct flame contact, evacuate the area to minimize hazard of potential explosion.

## HEALTH HAZARD DATA

**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.

### ACUTE HEALTH EFFECTS:

- INHALATION:** Inhalation of product mist may cause mucous membrane irritation. Airborne concentrations of propane and isobutane, the propellants in this product, exceeding workplace standards may cause central nervous system effects and irritation of the throat and lungs with coughing, nausea and vomiting. Prolonged exposure may cause dizziness, weakness, peripheral numbness, nervousness, and drowsiness.
- SKIN CONTACT:** Repeated or prolonged excessive exposure may cause irritation or dermatitis.
- EYE CONTACT:** May cause moderate to severe irritation.
- INGESTION:** Ingestion of large quantities may cause gastrointestinal irritation with nausea, vomiting and diarrhea.

**CHRONIC HEALTH EFFECTS:** None known.

**MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE:** Pre-existing respiratory illnesses or skin conditions.

## EMERGENCY AND FIRST AID PROCEDURES

**INHALATION:** Remove from exposure area to fresh air immediately. 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.

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

**EYE CONTACT:** Immediately rinse eyes with plenty of water, occasionally lifting upper and lower lids, until no evidence of product remains. Get medical attention if pain or irritation persist.

**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.

## REACTIVITY

**REACTIVITY** - Stable under normal temperatures and pressures.

**INCOMPATIBILITIES:** Strong oxidizers and alkalies.

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

**POLYMERIZATION** - Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

## STORAGE AND DISPOSAL

**CAUTION:** Store away from incompatible substances. Do not store above 120°F. Exposure to sunlight or heat may cause bursting. Do not puncture or incinerate. Properly deaerosolize any intact containers before disposal. Observe all federal, state and local regulations when storing or disposing of this substance.

## CONDITIONS TO AVOID

Do not permit physical damage or overheating of containers. Do not place aerosol cans in trash compactor. Contents are under pressure; containers may violently rupture and travel a considerable distance.

## SPILL AND LEAK PROCEDURES

**OCCUPATIONAL RELEASE** - Shut off ignition sources. Do not touch spilled material. Use water spray to reduce vapors. Isolate area until gas has 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.

## OCCUPATIONAL PROTECTIVE EQUIPMENT

**VENTILATION:** - Provide local exhaust or general dilution ventilation to keep exposure to airborne contaminants below the published exposure limits where mists or vapors may be generated. Ventilation equipment should be explosion-proof.

**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 published 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 is required where repeated or prolonged skin contact may occur.

**GLOVES** - Protective gloves are required where repeated or prolonged skin contact may occur.

**EYE PROTECTION** - Safety glasses are required to prevent eye contact where misty conditions may occur.

## REGULATORY INFORMATION

**DOT FLAMMABILITY CLASSIFICATION:** Not applicable.

**DOT AEROSOL CLASSIFICATION:** Consumer Commodity ORM-D – exempt from Regulation except when shipped by air.

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

TSCA:

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

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REVISION DATE: 10/20/04

REVISION: Trade Name and Hazardous Ingredients