

MATERIAL SAFETY DATA SHEET

MSDS W-142 REVISION 10

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

The Dial Corporation
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Chemtrec: 1-800-424-9300 (24 Hours Daily)
Other Information: 1-888-468-6673

PRODUCT: Non-Aerosol Spray Air Freshener DATE OF ISSUE: July 26, 2007

TRADE NAMES/SYNONYMS: Renuzit® Super Odor Neutralizer™ Fine Mist Spray - Citrus Sunburst
Renuzit® Super Odor Neutralizer™ Fine Mist Spray - Herbal Blossoms
Renuzit® Super Odor Neutralizer™ Fine Mist Spray - Orchard Garden
Renuzit® Super Odor Neutralizer™ Fine Mist Spray - Mountain Fresh
Renuzit® Super Odor Neutralizer™ Fine Mist Spray - After The Rain
Renuzit® Super Odor Neutralizer™ Fine Mist Spray – Pure Breeze
Commercial Renuzit® Super Odor Neutralizer™ - Rtu (Ready To Use)

CHEMICAL FAMILY: Mixture

I.D. NUMBERS: 99101276, 99101947 (Citrus Sunburst); 99101277 (Herbal Blossoms); 99101278,
99101949 (Orchard Garden); 99101279, 99101946 (Mountain Fresh); 99102305 (After
the Rain / Commercial - RTU); 99102624 (Pure Breeze)

SECTION 2: HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION: This product is a clear liquid with fragrant odor. Direct contact with eyes may cause irritation. Ingestion of large quantities may be harmful. Repeated or prolonged excessive exposure with skin may cause irritation or dermatitis. Intentional inhalation of vapors from product may cause central nervous system effects and irritation of the throat and lungs with coughing. 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

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: Eye irritant.

SKIN CONTACT: Repeated or prolonged excessive contact may cause irritation or dermatitis.

INGESTION: May be harmful if swallowed. Disulfiram (Antabuse®) reactions such as vomiting, headache, and even collapse, may result from ingestion of small quantities of alcohol and have also been described from skin contact.

INHALATION: Not an anticipated route of entry. Intentional inhalation of vapors from product 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: 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: Persons with pre-existing 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>
Ethyl Alcohol (Ethanol)	64-17-5	5 – 10 %
Alcohols, C12-15, Ethoxylated	68131-39-5	1 – 5 %
Concentrated Perfume Oil	Proprietary Mixture	1 – 5 %

SECTION 4: FIRST AID MEASURES

EYES: 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 persists.

SKIN: Rinse affected area with large amounts of mild soap and water until no evidence of product remains. 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 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.

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.

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: 126 - 130°F (CC)

UPPER FLAMMABILITY LIMIT: Not available LOWER FLAMMABILITY LIMIT: Not available

AUTO-IGNITION TEMPERATURE: Not available

FIRE AND EXPLOSION HAZARD: Mixture is a combustible liquid. Vapors are heavier than air and may travel to an ignition source.

HAZARDOUS DECOMPOSITION PRODUCTS: Irritating smoke, carbon monoxide, and carbon dioxide.

EXTINGUISHING MEDIA

Alcohol resistant foam, dry chemical or carbon dioxide. For larger fires, flood with fine water spray or alcohol-resistant foam.

PROTECTION OF FIREFIGHTERS

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear skin, eye and respiratory protection as recommended in Section 8. 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.

ENVIRONMENTAL PRECAUTIONS

Small or household quantities may be disposed in regular domestic trash. For larger quantities check with your local disposal authorities.

METHODS FOR CONTAINMENT AND CLEAN UP

SMALL SPILLS: Contain and absorb with sand or other non-combustible 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. Keep the containers closed when not in use.

STORAGE:

Combustible liquid. Store in original containers in a cool dry area. Store away from incompatible substances, excessive heat, flames, sparks or other ignition sources. Storage areas for large quantities (warehouse) should be well ventilated. Keep the containers tightly closed when not in use. Observe all federal, state and local regulations when storing or disposing of this substance.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

This product is a household 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. PEL-TWA is the OSHA Permissible Exposure Limit.

INGREDIENT	CAS NUMBER	EXPOSURE LIMIT
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. 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 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 is required where repeated or prolonged skin contact may occur.

GLOVES: Protective 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 liquid with fragrant odor.		
ODOR/ODOR THRESHOLD:	Pleasant fragrance	PHYSICAL STATE:	Liquid
pH (@ 25 °C):	3.0 – 4.0	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: ~1.00 g/mL @ 25 °C		EVAPORATION RATE:	Not available
OCTANOL/WATER PARTITION COEFFICIENT (K _{ow}):	Not available		
VISCOSITY:	Not available	CLOUD POINT:	Not applicable

SECTION 10: STABILITY AND REACTIVITY

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

CONDITIONS TO AVOID: Avoid contact with incompatible substances, excessive heat, flames or other ignition sources.

INCOMPATIBLE MATERIALS: Strong oxidizers, and combustible materials.

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

POSSIBILITY OF HAZARDOUS REACTIONS: Polymerization does not occur under normal temperatures and pressures.

SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION SUMMARY: This product is household product. The use of this product by consumers is safe under normal and reasonable foreseen use. Direct contact with eyes may cause irritation. Ingestion of large quantities may be harmful. Repeated or prolonged excessive exposure with skin may cause irritation or dermatitis. Intentional inhalation of vapors from product may cause central nervous system effects and irritation of the throat and lungs with coughing.

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
ACUTE ORAL TOXICITY		
Ethanol	> 5,000 mg/kg (rat)	Practically Non-hazardous
Alcohols, C12-15, Ethoxylated	> 2,000 mg/kg (rat)	Moderately toxic
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/EC50 (ANIMAL SPECIE)	TOXICITY RATING
VERTEBRATES		
Ethanol	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		
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: 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.

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 the 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: 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=1 FLAMMABILITY=2 REACTIVITY=0
HMIS RATINGS (Scale 0-4, where 4=severe hazard): HEALTH=1 FLAMMABILITY=2 REACTIVITY=0

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