



Revision Number: 009.0

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## 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

**Product identifier used on the label:** Dial® Roll-On Antiperspirant – Scented

**Other means of identification:** 714654

**Recommended use of the chemical and restrictions on use:** Roll-On Antiperspirant; No restrictions on use

**Name, address and telephone number of the chemical manufacturer:**

The Dial Corporation, a Henkel Company  
7201 E. Henkel Way  
Scottsdale, AZ 85255-9672 USA

CHEMTREC: 1-800-424-9300 (24 hours daily)  
Internet: www.henkelna.com

**Emergency telephone number:** Medical Emergencies: 1-888-689-9082

## 2. HAZARD IDENTIFICATION

Classification of the substance or mixture in accordance with paragraph (d) of §1910.1200

HAZARD CLASS	HAZARD CATEGORY
ACUTE HAZARDS TO THE AQUATIC ENVIRONMENT	2
CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT	2

Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200

**Signal word:** WARNING  
**Hazard Statement(s):** Toxic to aquatic life with long lasting effects.



**Symbol(s):**

**Precautionary Statements:**

**Prevention:** Avoid release to the environment.

**Response:** Not prescribed

**Storage:** Not prescribed

**Disposal:** Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

**Hazards not otherwise classified:** Not available.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

The following chemicals are classified as health hazards in accordance with paragraph (d) of § 1910.1200.

Chemical Name*	CAS Number (Unique Identifier)	Concentration	Classification §1910.1200
Aluminum Starch Octenylsuccinate	9087-61-0	1 – 5 %	Not a dangerous substance according to GHS
3,6,9,12-Tetraoxatetracosan-1-ol	5274-68-0	1 – 5 %	Skin irritation 2; Dermal Eye irritation 2A Specific target organ toxicity – single exposure 3; Inhalation Acute hazards to the aquatic environment 1 Chronic hazards to the aquatic environment 1
Fatty alcohol ethoxylate C12 23EO	9002-92-0	1 – 5 %	Eye irritation 2A Skin irritation 2

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			Specific target organ toxicity – single exposure 3 Acute toxicity 4; Oral
Cetyl alcohol	36653-82-4	1 – 5 %	Eye irritation 2A Skin irritation 2 Skin Sensitization 1
Myristic acid isopropylester	110-27-0	1 – 5 %	Skin irritation 2

\*The specific chemical identity and/or exact percentage (concentration) of composition has been withheld because a trade secret is claimed in accordance with paragraph (i) of §1910.1200.

#### 4. FIRST AID MEASURES

##### Description of necessary measures

**Inhalation:** Remove from exposure area to fresh air. If any symptoms appear, get medical attention.

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

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

**Ingestion:** Dilution by rinsing the mouth and giving water or milk to drink is generally recommended. Contact physician or local poison control center.

##### Most important symptoms and effects, both acute and delayed

After eye contact: May cause mild transient irritation After skin contact: Repeated or prolonged excessive exposure may cause irritation or dermatitis. After ingestion: Nausea and possible vomiting may occur. After inhalation: Unlikely to occur due to the physical properties of the product.

##### Indication of any immediate medical attention and special treatment needed

After eye contact: Rinse eyes with plenty of water until no evidence of product remains. After skin contact: Rinse affected area with mild soap and water until no evidence of product remains. After ingestion: Dilution by rinsing the mouth and giving a glass of water to drink is generally recommended. After inhalation: Remove from exposure area to fresh air.

#### 5. FIRE FIGHTING MEASURES

##### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Dry chemical, carbon dioxide, water spray or regular foam.

**Unsuitable extinguishing media:** None known

##### Specific hazards arising from the chemical

Oxides of carbon and oxides of nitrogen.

##### Special protective equipment and precautions for fire-fighters

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 a fog, solid streams may be ineffective. Avoid breathing hazardous vapors, keep upwind.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions, protective equipment and emergency procedures

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 and materials for containment and cleaning up

**SMALL SPILLS:** Contain and absorb with 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.

#### 7. HANDLING AND STORAGE

##### Precautions for safe handling

Do not get in eyes. Do not take internally. Use with adequate ventilation. Avoid generating aerosols and mists.

##### Conditions for safe storage, including any incompatibilities

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.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.**

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Hazardous Component(s)	ACGIH	OSHA PEL	AIHA WEEL	OTHER
Aluminum Starch Octenylsuccinate	1 mg/m3 TWA Respirable fraction.	None	None	None

#### Appropriate 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.

#### Individual protection measures

**Respiratory:** 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.

**Eye:** Safety glasses are required to prevent eye contact where dusty conditions may occur.

**Hand/Body:** Protective gloves are required where repeated or prolonged skin contact may occur. Protective clothing is required where repeated or prolonged skin contact may occur.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	liquid, off-white
<b>Odor:</b>	Pleasant
<b>Odor threshold:</b>	Not available.
<b>pH:</b>	4.2 (25 °C)
<b>Melting point/ range:</b>	Not available.
<b>Boiling point/range:</b>	Not available.
<b>Flash point:</b>	> 93.3 °C (> 199.94 °F)
<b>Evaporation rate:</b>	Not available.
<b>Flammable/Explosive limits - lower:</b>	Not available.
<b>Flammable/Explosive limits - upper:</b>	Not available.
<b>Vapor pressure:</b>	Not available.
<b>Vapor density:</b>	Not available.
<b>Solubility in water:</b>	Negligible
<b>Partition coefficient (n-octanol/water):</b>	Not available.
<b>Autoignition temperature:</b>	Not available.
<b>Decomposition temperature:</b>	Not available.
<b>Viscosity:</b>	Not available.
<b>VOC content:</b>	Not available.
<b>Specific gravity:</b>	1.15 at 20 °C (68°F)

## 10. STABILITY AND REACTIVITY

**Reactivity:** This product may react with strong alkalis.

**Chemical stability:** Stable under normal ambient temperature (70°F, 21°C) and pressure (1 atm).

**Possibility of hazardous reactions:** Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

**Conditions to avoid:** Avoid storing in direct sunlight and avoid extremes of temperature.

**Incompatible materials:** Strong oxidizers and alkalis.

**Hazardous decomposition products:** Thermal decomposition may release oxides of carbon and nitrogen.

## 11. TOXICOLOGICAL INFORMATION

#### Likely routes of exposure including symptoms related to characteristics

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

**Skin contact:** Repeated or prolonged excessive exposure may cause irritation or dermatitis.

**Eye contact:** This product may cause slight irritation.

**Ingestion:** May cause mild gastrointestinal irritation with nausea, vomiting, diarrhea and abdominal pain.

**Physical/Chemical:** No physical/chemical hazards are anticipated for this product.

#### Other relevant toxicity information:

This product is a personal care or cosmetic product. No adverse effects are anticipated to skin from normal use.

#### Numerical measures of toxicity, including delayed and immediate effect

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Aluminum Starch Octenylsuccinate	None	No Data

3,6,9,12-Tetraoxatetracosan-1-ol	None	No Data
Fatty alcohol ethoxylate C12 23EO	None	Central nervous system, Irritant
Cetyl alcohol	Oral LD50 (RAT) = 5 g/kg	Irritant, Allergen
Myristic acid isopropylester	Dermal LD50 (RABBIT) = 5 g/kg	Irritant

#### Carcinogenicity information

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Aluminum Starch Octenylsuccinate	No	No	No
3,6,9,12-Tetraoxatetracosan-1-ol	No	No	No
Fatty alcohol ethoxylate C12 23EO	No	No	No
Cetyl alcohol	No	No	No
Myristic acid isopropylester	No	No	No

**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.

**Toxicity to reproduction** None of the ingredients in this product are known to have reproductive, fetal, or developmental hazards.

## 12. ECOLOGICAL INFORMATION

#### Aquatic Toxicity:

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.

#### Toxicity to fish:

Hazardous substances	Value type	Value	Acute toxicity study	Exposure time	Species	Method
Fatty alcohol ethoxylate C12 23EO	LC50	1.4 mg/l	Fish	96 h	Cyprinus carpio	OECD 203
Cetyl alcohol	LC50	> 9,800 mg/l	Fish	96 h	Danio rerio	
Myristic acid isopropylester	LC50	8,400 mg/l	Fish	96 h	Danio rerio	

#### Toxicity to aquatic invertebrates:

Hazardous substances	Value type	Value	Acute toxicity study	Exposure time	Species	Method
Fatty alcohol ethoxylate C12 23EO	EC50	6.46 mg/l	Daphnia	48 h	Daphnia magna	OECD 202
Myristic acid isopropylester	EC50	> 100 mg/l	Daphnia	48 h	Daphnia magna	OECD 202

#### Toxicity to algae:

Hazardous substances	Value type	Value	Acute toxicity study	Exposure time	Species	Method
Cetyl alcohol	EC50	> 980 mg/l	Algae	72 h	Desmodesmus subspicatus	DIN 38412-09
Myristic acid isopropylester	EC50	> 100 mg/l	Algae	72 h	Desmodesmus subspicatus	DIN 38412-09

**Persistence and Degradability:** The persistence and degradability of this product has not been determined. The hazardous ingredients are readily biodegradable.

Hazardous substances	Result value	Route of application	Species	Method
Fatty alcohol ethoxylate C12 23EO	Readily biodegradable	aerobic	89 %	OECD 301 B (CO2 evolution)
Cetyl alcohol	Readily biodegradable	aerobic	82.4 %	OECD 301 C (modified MITI)
Myristic acid isopropylester	Readily biodegradable	aerobic	91 %	EU Method C.4-E (closed bottle)

**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.

## 13. DISPOSAL CONSIDERATIONS

**Waste Number and Description:** Not applicable, not regulated.

#### Disposal Considerations:

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

**Disposal of packages:** Place in trash.

**Additional information:** Observe all federal, state and local regulations when storing or disposing of this substance

## 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

### U.S. Department of Transportation Ground (49 CFR)

**Proper shipping name:** Not regulated

**Hazard class or division:** None

**Identification number:** None

**Packing group:** None

### International Air Transportation (ICAO/IATA)

**Proper shipping name:** Not regulated

**Hazard class or division:** None

**Identification number:** None

**Packing group:** None

### Water Transportation (IMO/IMDG)

**Proper shipping name:** Not regulated

**Hazard class or division:** None

**Identification number:** None

**Packing group:** None

## 15. REGULATORY INFORMATION

**Occupational Safety and Health Act:** Hazard Communication Rule, 29 CFR 1910.1200: The Occupational Safety and Health Administration (OSHA) require Material Safety Data Sheets (MSDSs) to provide information about any hazard 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 health hazard information not relevant to consumer use.

### United States Regulatory Information:

**TSCA 8 (b) Inventory Status:** All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

**TSCA 12 (b) Export Notification:** None above reporting de minimis

**CERCLA/SARA Section 302 EHS:** The following components are subject to reporting levels established by SARA Title III, Section 302: Formaldehyde (CAS# 50-00-0).

**CERCLA/SARA Section 311/312:** Not available.

**CERCLA/SARA Section 313:** None above reporting de minimis

**California Proposition 65:** No California Proposition 65 listed chemicals are known to be present.

### Canada Regulatory Information:

**CEPA DSL/NDL Status:** One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.

## 16. OTHER INFORMATION

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

**This safety data sheet contains changes from the previous version in sections:** New Safety Data Sheet format.

**Prepared by:** R&D Support Services

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