

MATERIAL SAFETY DATA SHEET

NOTE: This Material Safety Data Sheet (MSDS) is prepared for industrial / commercial use situations. The preparation of this MSDS may be required by law, but this is not an assertion that this product presents a risk in the normal consumer use situation.



SECTION I. PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: **Dove Anti-Perspirant Dry Spray Aerosol – All Variants**

MSDS NUMBER: 4458-16

CORPORATE ADDRESS: Unilever
700 Sylvan Avenue
Englewood Cliffs, NJ 07632

PHONE #:	800-761-3683 Monday thru Friday (8:30 AM – 6:00 PM EST)
EMERGENCY #:	800-745-9269 (24 Hours)
POISON CONTROL #:	800-949-7866 (24 Hours)
CHEMTREC #:	800-424-9300 (24 Hours, Transportation Emergencies)

All written inquiries should be sent to:
Unilever Consumer Services, 920 Sylvan Avenue, Englewood Cliffs, NJ 07632 or Fax to: 201-227-5859

SECTION II. HAZARDS IDENTIFICATION

WARNING: For external use only. Flammable. Do not use near heat, flame or while smoking. Contents under pressure. Do not puncture, or incinerate. Do not expose to heat or store at room temperatures above 120°F/50°C or in enclosed places that could overheat..

Keep out of reach of children. Use only as directed. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Avoid spraying in eyes. Keep away from face and mouth to avoid breathing it.

EXPOSURE EFFECTS: This is a personal care product that is safe for consumers when used according to the label directions. Like many consumer products, a small number of individuals may experience reactions such as redness, rash and /or swelling upon prolonged or repeated skin contact or eye contact.

HAZARD RATINGS: Health: 1, Fire: 3, Physical Hazards: 2
Ratings are based on a 0-4 scale, with 0 representing minimal and 4 representing significant hazards or risks.

SECTION III. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients as defined by 29 CFR 1910.1200:

CHEMICAL NAME	CAS NUMBER	% RANGE
Butane	106-97-8	20 – 30

Hydrofluorocarbon 152a (Difluoroethane)	75-37-6	15 – 25
Isobutane	75-28-4	10 – 20
Aluminum Chlorohydrate	12042-91-0	5 – 15

SECTION IV. FIRST AID MEASURES

EYE CONTACT: Rinse thoroughly with water.
 SKIN CONTACT: Discontinue use if rash or irritation occurs. Rinse with water.
 INGESTION: Do not induce vomiting. Get medical help or contact a Poison Control Center.
 INHALATION: Move individual to fresh air.
 NOTE: If symptoms persist, seek medical attention.

SECTION V. FIRE FIGHTING MEASURES

HAZARD CLASSIFICATION: Flammable. See Section XIV for Shipping Classifications.
 FLASHPOINT: Not applicable. Aerosol flame extension <18 inches/45 cm.
 NFPA CLASSIFICATION: Aerosol Level 2 per NFPA 30B.
 EXTINGUISHING MEDIA: Water mist/spray, carbon dioxide, foams or dry chemicals.
 SPECIAL FIREFIGHTING PROCEDURES: Since pressurized aerosol cans may explode when exposed to excessive heat, protect from excessive heat with water spray.
 HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon, nitrogen; hydrocarbons & derivatives.
 CONTENTS UNDER PRESSURE: Yes. Exposure to temperature > 130°F/55°C may cause bursting.
 EXPLOSIVE: Yes.

SECTION VI. ACCIDENTAL RELEASE MEASURES

SPILLS, LEAKS: Small or household quantities may be cleaned up and disposed of in household trash. For large (industrial) releases, eliminate all sources of ignition and ventilate the area with equipment rated for use in a flammable environment.

SECTION VII. HANDLING & STORAGE

HANDLING PRECAUTIONS: Contents under pressure. Do not puncture or incinerate container. Do not use when smoking or in presence of fire, open flame, sparks or heat.
 STORAGE REQUIREMENTS: Do not store at temperatures above 120°F/50°C or in enclosed places that could overheat. Do not place in hot water or near radiators, stoves or other sources of heat.

SECTION VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

CHEMICAL NAME	CAS #	ACGIH TLV	OSHA PEL
Butane	106-97-8	TWA=1000 ppm	None established
Difluoroethane (HFC-152a)	75-37-6	None established	None established
Isobutane	75-28-4	TWA=1000 ppm	None established
Aluminum Chlorohydrate	12042-91-0	2 mg/m ³ as Al	None established

PERSONAL PROTECTION

FOR ROUTINE CONSUMER USE: Avoid inhalation. Avoid spraying in eyes. Use only as directed.
Do not use on broken skin. Stop use if rash or irritation occurs.

FOR INDUSTRIAL ACTIVITIES: Use protective eyewear, gloves, clothing and general ventilation.

SECTION IX. PHYSICAL & CHEMICAL PROPERTIES

FORM:	Liquid in pressurized aluminum can	COLOR:	White
ODOR:	Characteristic	SOLUBILITY:	Not available
SPECIFIC GRAVITY:	Not available	PRESSURE:	≤72.5 PSIG at 77°F/25°C. ≤159.5 PSIG at 130°F/54°C.
MELTING POINT:	Not available	DOT AEROSOL CAN RATING:	2P
pH:	Not available	EVAPORATION RATE:	Not available
PERCENT VOLATILE:	Not available	PERCENT VOC:	40

SECTION X. STABILITY & REACTIVITY

STABLE: Yes.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

INCOMPATIBLE WITH: Strong oxidizers, acids or bases. Do not expose to heat or in enclosed places that could overheat.

SPECIAL CONDITIONS TO AVOID: Open flames, high temperatures, sunlight or impact.

CORROSIVE TO STEEL, ALUMINUM: No.

SECTION XI. TOXICOLOGY INFORMATION

ACUTE EFFECTS

EYE CONTACT: May cause redness or irritation.

SKIN CONTACT: Overexposure may cause a skin reaction such as redness. Do not use on broken skin.

INGESTION: May cause nausea, vomiting and diarrhea.

RESPIRATORY: Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

CHRONIC EFFECTS: None expected

CARCINOGEN CLASSIFICATIONS

NTP: None

IARC: None

OSHA: None

SECTION XII. ECOLOGICAL INFORMATION

This product is safe for the environment at the concentrations predicted under normal use conditions.

SECTION XIII. DISPOSAL CONSIDERATIONS

Disposal by Consumer: Contents under pressure. Do not puncture or incinerate. Waste generated in the course of normal consumer use is not subject to RCRA. Consumer waste should be disposed of in accordance with all applicable local, state and federal regulations.

Disposal by Manufacturer/Vendors: Waste meets the federal definition of hazardous waste due to the ignitability characteristic (D0001) as defined at 40 CFR § 261.21. Hazardous Waste Generator may dispose of individual consumer containers in drums or other appropriate containers. Generator cannot incinerate waste without puncturing and releasing flammable gas from all pressurized consumer packaging using the appropriate aerosol disposal equipment to ensure worker safety.

SECTION XIV. TRANSPORT INFORMATION

FOR SHIPMENT IN CONSUMER PACKAGING	GROUND	WATER	AIR
PROPER SHIPPING NAME:	Consumer Commodity	Aerosols	Consumer Commodity
HAZARD CLASS:	9	2.1	9
UN/ID #:	Not applicable	UN1950	ID8000
PACKING GROUP:	Not applicable	None	Not applicable
REQUIRED LABELING:			
LABEL TYPE:	Limited Quantity	Limited Quantity	Limited Quantity, Miscellaneous

EMERGENCY GUIDE NUMBER:	ID8000 Consumer Commodity = 171 UN1950 Aerosol = 126
DOT HAZARDOUS SUBSTANCE RQ:	None/no reportable quantities
DOT MARINE POLLUTANTS:	None/no reportable quantities
IATA - Substances Forbidden from Air Transport:	None/no reportable quantities
IATA - Subst. Forbidden from Passenger Transport:	Isobutane, Butane, Difluoroethane (Not forbidden when classified as a Consumer Commodity)

SECTION XV. REGULATORY INFORMATION

TSCA: Not applicable
 RCRA: See Section XIII - Disposal Considerations
 CAA HAPS or Ozone Depletors: None/no reportable quantities
 CERCLA/SARA 302 Hazardous Substances: None/no reportable quantities
 CERCLA/SARA 311/312 Hazard Categories: None/no reportable quantities
 CERCLA/SARA 313 Emissions Reporting: None/no reportable quantities
 CERCLA RQ: Butane, Difluoroethane, Isobutane - 100 lbs
 CA 22 CCR Hazardous Wastes: None/no reportable quantities
 CA Proposition 65 Listed Chemicals: None/no reportable quantities
 IL, MA, NJ, PA, RI State RTK, Hazardous & Other Notifications: Butane, Difluoroethane, Isobutane, Aluminum Chlorohydrate

SECTION XVI. OTHER INFORMATION

LEGEND:

ACGIH	American Conference of Governmental & Industrial Hygienists	LVOC	Low Volatile Organic Compound
CAA	Clean Air Act	N/A	Not Applicable
CARB	California Air Resources Board	NFPA	National Fire Protection Association
CAS	Chemical Abstract Service	NTP	National Toxicology Program
CCR	California Code of Regulations	OSHA	Occupation Safety & Health Administration
CERCLA	Comprehensive Environmental Response, Compensation & Liability Act	PEL	Permissible Exposure Limit
CFR	Code of Federal Regulations	RCRA	Resource Conservation & Recovery Act
DOT	Department of Transportation	RQ	Reportable Quantity
EPCRA	Emergency Planning and Community Right-To-Know Act	RTK	Right-To-Know
EST	Eastern Standard Time	SARA	Superfund Amendments & Reauthorization Act
HAPS	Hazardous Air Pollutants	STEL	Short-Term Exposure Limit
HMIS	Hazardous Materials Information System	TBD	To Be Determined
HON	Hazardous Organic NESHAP (National Emission Standards for Hazardous Air Pollutants)	TCC	Tagliabue Closed Cup
HVOC	High Volatile Organic Compound	TLV	Threshold Limit Value
IARC	International Agency for the Research of Cancer	TSCA	Toxic Substances Control Act
IATA	International Air Traffic Association	TWA	Time Weighted Average
ICAO	International Civil Aviation Organization	TCLP	Toxicity Characteristic Leaching Procedure
IMDG	International Maritime Dangerous Goods	VOC	Volatile Organic Compounds
IMO	International Maritime Organization		

Unilever
 Regulatory Affairs
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