

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 Hairspray (Aerosol) – All Variants**
 MSDS NUMBER: 1946-16
 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: Avoid spraying in eyes. Contents under pressure. FLAMMABLE. Do not puncture or incinerate. Avoid fire, flame or smoking during use and until hair is thoroughly dry. Do not store at temperatures above 120°F/50°C. Keep out of reach of children. Use only as directed. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

HAZARD RATINGS: Health: 1, Fire: 2, Physical Hazards: 1
 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
Dimethyl Ether	115-10-6	0 - 35
Hydrofluorocarbon 152a (Difluoroethane)	75-37-6	0 - 40
SD Alcohol 40-B (Ethanol)	64-17-5	15 - 55

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. Drink a glass of milk or water.
 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 1 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.

SECTION VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

CHEMICAL NAME	CAS #	ACGIH TLV	OSHA PEL
Dimethyl Ether	115-10-6	None established	None established
Difluoroethane (HFC-152a)	75-37-6	None established	None established
Ethanol	64-17-5	STEL=1000 ppm	TWA=1000 ppm , 1900 mg/m ³

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 metal can	COLOR:	Not available
ODOR:	Characteristic	SOLUBILITY:	Not available
SPECIFIC GRAVITY:	Not applicable	PRESSURE:	45-65 PSIG at

			70°F/21°C. 92-145 PSIG at 130°F/54°C.
MELTING POINT:	Not applicable	VISCOSITY:	Not available
pH:	Not applicable	EVAPORATION RATE:	>1
PERCENT VOLATILE:	Not available	PERCENT VOC:	<55

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 cause serious injury or death.

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 recover waste Ethanol for bulk liquid disposal (or recycling) pursuant to RCRA or 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	DOMESTIC - ALL MODES (US DOT)	INTERNATIONAL - AIR (IATA/ICAO)	INTERNATIONAL - WATER (IMO/IMDG)
PROPER SHIPPING NAME:	Consumer Commodity	Consumer Commodity	Aerosols
HAZARD CLASS:	ORM-D/ORM-D-AIR	9	2
UN/ID #:	None	ID8000	UN1950
PACKING GROUP:	None	None	None
LABEL REQUIRED:	None	Miscellaneous	None

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: Difluoroethane and Dimethyl ether (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: Difluoroethane, Dimethyl Ether and Ethanol - 100 lbs

CA 22 CCR Hazardous Wastes: Ethanol

CA Proposition 65 Listed Chemicals: None/no reportable quantities

IL, MA, NJ, PA, RI State RTK, Hazardous & Other Notifications: Difluoroethane, Dimethyl Ether and Ethanol

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		

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