MATERIAL SAFETY DATA SHEET

FDS Hypo Allergenic Feminine Deodorant Spray Baby Powder

1. Product and Company Identification

Material name	**FDS Deodorant Spray Baby Powder - Aerosol**
Revision date	28-Jul-2007
CAS #	Mixture
Product use	Feminine Deodorant Spray
Company information	ALBERTO-CULVER USA, INC. 2525 Armitage Avenue Melrose Park, IL 60160 US
Emergency	Emergency Phone (708) 450-3175 Shipping Emergencies CHEMTREC 800 424-9300 or 703 527-3887
General information	Business Phone (708) 450-3000

2. Hazards Identification

Emergency overview	EXTREMELY FLAMMABLE. Will be easily ignited by heat, spark or flames. Harmful in contact with eyes.
Potential health effects	
Eyes	Contact may irritate or burn eyes.
Skin	Health injuries are not known or expected under normal use.
Inhalation	Intentional misuse by concentrating and inhaling the product can be harmful or fatal.
Ingestion	Do not ingest. Health injuries are not known or expected under normal use.
Target organs	Central nervous system. Eyes. Respiratory system. Skin.
Chronic effects	May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Conjunctiva.
Signs and symptoms	Narcosis. Behavioral changes. Decrease in motor functions. Defatting of the skin. Rash. Irritation. Conjunctivitis.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Isobutane	75-28-5	< 90
MAGNESIUM STEARATE	557-04-0	< 2.5
Starch	9005-25-8	< 2.5
Butane	106-97-8	< 10
Propane	74-98-6	< 10
Non-hazardous and other components below reportable levels		> 2.5

Composition comments This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

4. First Aid Measures

First aid procedures	
Eye contact	Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if irritation develops or persists.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops or persists.
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Ingestion	Have victim rinse mouth thoroughly with water. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. If ingestion of a large amount does occur, seek medical attention. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Notes to physician	Symptoms may be delayed.

General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Call a physician if symptoms develop or persist. If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures

Flammable properties

Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard. Containers may explode when heated.

Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Dry chemical. Water Fog.

Protection of firefighters

Protective equipment for firefighters

Structural firefighters protective clothing will only provide limited protection.

6. Accidental Release Measures

Personal precautions

Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Methods for cleaning up

Large Spills: Dike far ahead of liquid spill for later disposal. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

7. Handling and Storage

Handling

Do not handle or store near an open flame, heat or other sources of ignition. Vapors may form explosive mixtures with air. All equipment used when handling the product must be grounded. Avoid contact with skin and eyes. Keep away from sources of ignition - No smoking. May be ignited by open flame. Do not breathe gas/fumes/vapor/spray.

Storage

Do not handle or store near an open flame, heat or other sources of ignition. Store in cool place. Keep in a well-ventilated place. This material can accumulate static charge which may cause spark and become an ignition source. The pressure in sealed containers can increase under the influence of heat. Use care in handling/storage. Keep the container dry. Keep this material away from food, drink and animal feed. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Exposure guidelines

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

Butane	106-97-8	1000 Ppm TWA (listed under Aliphatic hydrocarbon gases alkane C1-C4)
Isobutane	75-28-5	1000 Ppm TWA (listed under Aliphatic hydrocarbon gases alkane C1-C4)
MAGNESIUM STEARATE	557-04-0	10 Mg/m3 TWA (does not include stearates of toxic metals)
Propane	74-98-6	1000 Ppm TWA (listed under Aliphatic hydrocarbon gases alkane C1-C4)
Starch	9005-25-8	10 Mg/m3 TWA

ACGIH - Threshold Limits Values - TLV Basis - Critical Effects

Butane	106-97-8	Cardiac sensitization; CNS impairment
Isobutane	75-28-5	CNS depression; cardiac sensitization
MAGNESIUM STEARATE	557-04-0	irritation
Propane	74-98-6	Cardiac sensitization; CNS impairment
Starch	9005-25-8	dermatitis

OSHA - Final PELs - Time Weighted Averages (TWAs)

Propane	74-98-6	1000 Ppm TWA; 1800 mg/m3 TWA
Starch	9005-25-8	15 Mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)

Engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment if high dust/air concentrations are possible. Use explosion-proof ventilation equipment.

Personal protective equipment

Eye / face protection

Avoid contact with eyes.
Applicable for industrial settings only. Wear chemical goggles.

Skin protection

Not normally needed. Applicable for industrial settings only. Use personal protective equipment as required.

Respiratory protection	No personal respiratory protective equipment normally required. Applicable for industrial settings only. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General hygiene considerations	When using do not smoke. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin and the eyes. Keep away from food and drink.

9. Physical & Chemical Properties

Appearance	Not available
Clarity	Not available
Color	Not available
Form	Gaseous.
Odor	Not available
Odor threshold	Not available
Physical state	Gas.
pH	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flash point	-4.0 °F (-20 °C) estimated
Evaporation rate	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	Not available
Relative density	Not available
Solubility (H2O)	Not available
Octanol/H2O coeff	Not available
Auto-ignition temperature	860.0 °F (460 °C) estimated
Decomposition temperature	Not available
VOC (Weight %)	90.19 % estimated

10. Chemical Stability & Reactivity Information

Chemical stability	Risk of explosion. Risk of ignition.
Incompatible materials	Strong oxidizing agents.

11. Toxicological Information

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

Butane	106-97-8	Inhalation LC50 Rat: 658 g/m3/4H
Isobutane	75-28-5	Inhalation LC50 Rat: 658 mg/L/4H
Propane	74-98-6	Dermal LD50 Rat: 658 mg/kg

Local effects Contact may irritate or burn eyes.

Chronic effects Prolonged exposure may cause chronic effects.

Carcinogenicity

ACGIH - Threshold Limits Values - Carcinogens

MAGNESIUM STEARATE	557-04-0	A4 - Not Classifiable as a Human Carcinogen
Starch	9005-25-8	A4 - Not Classifiable as a Human Carcinogen

Further information Symptoms may be delayed.

12. Ecological Information

Ecotoxicity This material is not expected to be harmful to aquatic life. Components of this product have been identified as having potential environmental concerns.

13. Disposal Considerations

Waste codes	D001: Waste Flammable material with a flash point <140 F
Disposal instructions	Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. If discarded, this product is considered a RCRA ignitable waste, D001. Incinerate the material under controlled conditions in an approved incinerator.

14. Transport Information

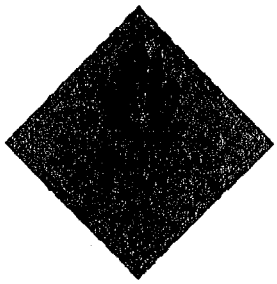
Department of Transportation (DOT) Requirements

<= 1L (33.8 Fl. Oz)

Basic shipping requirements:	
Proper shipping name	Consumer commodity
Hazard class	ORM-D
Additional information:	
Packaging exceptions	156, 306
Packaging non bulk	156, 306
Packaging bulk	None

Department of Transportation (DOT) Requirements

Basic shipping requirements:	
Proper shipping name	Aerosols, flammable
Hazard class	2.1
UN number	1950
Additional information:	
ERG code	10L



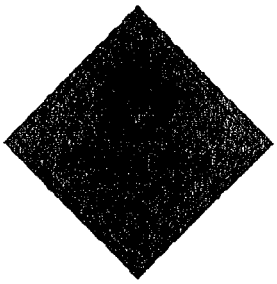
IATA

<= 1L (33.8 Fl. Oz)

Basic shipping requirements:	
Proper shipping name	Consumer commodity
Hazard class	ORM-D
Additional information:	
Packaging exceptions	156, 306
Labels required	None

IATA

Basic shipping requirements:	
Proper shipping name	Aerosols, flammable
Hazard class	2.1
UN number	1950
Packaging instructions	203



IMDG

Basic shipping requirements:	
Proper shipping name	AEROSOLS, flammable
Hazard class	2
UN number	1950
Additional information:	
Transport Category	2

15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
CERCLA/SARA Hazardous Substances - Not applicable.

FDA - Direct Food Additives

MAGNESIUM STEARATE	557-04-0	21 CFR 173.340

FDA - Food Additives Generally Recognized as Safe (GRAS)

Butane	106-97-8	21 CFR 184.1165
Isobutane	75-28-5	21 CFR 184.1165
MAGNESIUM STEARATE	557-04-0	21 CFR 184.1440
Propane	74-98-6	21 CFR 184.1655
Starch	9005-25-8	21 CFR 182.70, 21 CFR 182.90

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (CCS)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Japanese Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Korean Inventory of Chemicals (KICS)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

International regulations

The product is classified and labelled in accordance with EC directives or respective national laws.

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Massachusetts - Right To Know List

Butane	106-97-8	Present
Isobutane	75-28-5	Present
Propane	74-98-6	Present
Starch	9005-25-8	Present (dust, exempt when encapsulated or if particulates are not present and cannot be substantially generated through use of the product)

New Jersey - Right to Know Hazardous Substance List

Butane	106-97-8	sn 0273
Isobutane	75-28-5	sn 1040
Propane	74-98-6	sn 1594

Pennsylvania - RTK (Right to Know) List

Butane	106-97-8	Present
Isobutane	75-28-5	Present
Propane	74-98-6	Present
Starch	9005-25-8	Present

16. Other Information

HMIS ratings	Health: 1* Flammability: 4 Physical hazard: 0
NFPA ratings	Health: 4 Flammability: 4 Instability: 0
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
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