

SAmy

125307

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** TRESemmé 4+4 Brush-out Hairspray  
**Revision date** 20-Jun-2007  
**CAS #** Mixture  
**Product use** Aerosol Hair Fixative  
**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** Highly flammable. CAUTION  
 Flammable gas. Will be easily ignited by heat, spark or flames.  
 Harmful in contact with eyes. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. May cause flash fire or explosion.  
**OSHA regulatory status** This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).  
**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. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.  
**Target organs** Eyes. Respiratory system. Skin.  
**Chronic effects** Conjunctiva. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage.  
**Signs and symptoms** Defatting of the skin. Rash. Irritation. Conjunctivitis. Narcosis. Behavioral changes. Decrease in motor functions.  
**Potential environmental effects** This material is not expected to be harmful to aquatic life.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
ALCOHOL DENAT.	64-17-5	< 80
Hydrofluorocarbon 152A	75-37-6	< 20
Isobutane	75-28-5	< 20
Non-hazardous and other components below reportable levels		> 2.5

## 4. First Aid Measures

### First aid procedures

**Eye contact** Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops or persists.  
**Skin contact** Get medical attention if irritation develops or persists. Wash off with soap and water.  
**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Get medical attention, if needed. Call a physician if symptoms develop or persist.  
**Ingestion** Rinse mouth. 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. 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 (CO<sub>2</sub>). Dry chemical. Water Fog.**Unsuitable extinguishing media**

Do not use a solid water stream as it may scatter and spread fire.

**Protection of firefighters****Protective equipment for firefighters**

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Structural firefighters protective clothing will only provide limited protection.

**6. Accidental Release Measures****Personal precautions**

Keep unnecessary personnel away. Ventilate closed spaces before entering. Stay upwind. Keep out of low areas. Do not touch or walk through spilled material. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**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. Do not smoke. Vapors may form explosive mixtures with air. All equipment used when handling the product must be grounded. Do not get this material in contact with eyes. Keep away from sources of ignition - No smoking. May be ignited by open flame. Do not breathe dust/fume/gas/mist/vapors/spray. Use only with adequate ventilation.

**Storage**

Keep away from heat and 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 this material away from food, drink and animal feed. Keep out of the reach of children.

Level 2 Aerosol

**8. Exposure Controls / Personal Protection****Exposure guidelines****ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)**

ALCOHOL DENAT.

64-17-5

1000 Ppm TWA

Isobutane

75-28-5

1000 Ppm TWA (listed under Aliphatic hydrocarbon gases alkane C1-C4)

**ACGIH - Threshold Limits Values - TLV Basis - Critical Effects**

ALCOHOL DENAT.

64-17-5

CNS impairment; eye and upper respiratory tract irritation

Isobutane

75-28-5

CNS depression; cardiac sensitization

**OSHA - Final PELs - Time Weighted Averages (TWAs)**

ALCOHOL DENAT.

64-17-5

1000 Ppm TWA; 1900 mg/m<sup>3</sup> TWA**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. Wear appropriate chemical resistant gloves.

<b>Respiratory protection</b>	Not normally needed.  Applicable for industrial settings only. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>General hygiene considerations</b>	When using do not smoke. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.

## 9. Physical & Chemical Properties

<b>Appearance</b>	Not available
<b>Clarity</b>	Not available
<b>Color</b>	Not available
<b>Form</b>	Aerosol.
<b>Odor</b>	Not available
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Gas.
<b>pH</b>	Not available
<b>Melting point</b>	Not available
<b>Freezing point</b>	Not available
<b>Boiling point</b>	Not available
<b>Flash point</b>	-58.0 °F (-50 °C) estimated
<b>Evaporation rate</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Flammability limits in air, upper, % by volume</b>	Not available
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Specific gravity</b>	Not available
<b>Relative density</b>	Not available
<b>Solubility (H2O)</b>	Not available
<b>Octanol/H2O coeff</b>	Not available
<b>Auto-ignition temperature</b>	685.4 °F (363 °C) estimated
<b>Decomposition temperature</b>	Not available
<b>VOC (Weight %)</b>	79.26 % estimated

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Risk of explosion. Risk of ignition. Stable at normal conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Incompatible materials</b>	Acids. Amines. Isocyanates. Strong oxidizing agents.

## 11. Toxicological Information

<b>Acute effects</b>	Acute LD50: 2325 mg/kg estimated, Rat, Oral Acute LC50: 184 mg/l/4h estimated, Rat, Inhalation
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### Component analysis - LD50

#### Toxicology Data - Selected LD50s and LC50s

ALCOHOL DENAT.	64-17-5	Inhalation LC50 Rat: 124.7 mg/L/4H; Oral LD50 Rat: 1501 mg/kg
Hydrofluorocarbon 152A	75-37-6	Inhalation LC50 Mouse: 977 g/m3/2H
Isobutane	75-28-5	Inhalation LC50 Rat: 658 mg/L/4H

<b>Sensitization</b>	Not expected to be hazardous by OSHA criteria.
<b>Local effects</b>	Contact may irritate or burn eyes.
<b>Chronic effects</b>	Hazardous by OSHA criteria. Prolonged exposure may cause chronic effects.
<b>Carcinogenicity</b>	Not expected to be hazardous by OSHA criteria.

#### ACGIH - Threshold Limits Values - Carcinogens

ALCOHOL DENAT.	64-17-5	A4 - Not Classifiable as a Human Carcinogen
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<b>Neurological effects</b>	Hazardous by OSHA criteria.
<b>Mutagenicity</b>	Not expected to be hazardous by OSHA criteria.
<b>Reproductive effects</b>	Possible reproductive hazard.

**Teratogenicity** Not expected to be hazardous by OSHA criteria.  
**Epidemiology** Hazardous by OSHA criteria.  
**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.

### Environmental effects

#### Ecotoxicity - Freshwater Fish Species Data

ALCOHOL DENAT. 64-17-5 96 Hr LC50 Oncorhynchus mykiss: 12900 mg/L (flow-through) (30 days old); 96 Hr LC50 Pimephales promelas: 14.2 mg/L

#### Ecotoxicity - Microtox Data

ALCOHOL DENAT. 64-17-5 5 Min EC50 Photobacterium phosphoreum: 35470 mg/L; 30 min EC50 Photobacterium phosphoreum: 34634 mg/L

#### Ecotoxicity - Water Flea Data

ALCOHOL DENAT. 64-17-5 48 Hr EC50 Daphnia magna: 9268 mg/L; 24 Hr EC50 Daphnia magna: 10800 mg/L

## 13. Disposal Considerations

**Waste codes** D001: Waste Flammable material with a flash point <140 F

**Disposal instructions** Dispose in accordance with all applicable regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers.

## 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  
**Subsidiary hazard class** 3  
**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  
**Subsidiary hazard class** 3  
**UN number** 1950  
**Additional information:**  
**ERG code** 10L

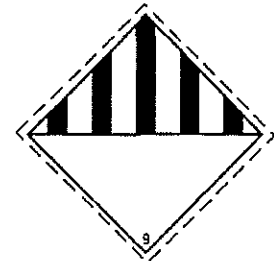


### IATA

<= 1L (33.8 Fl. Oz)

#### Basic shipping requirements:

**Proper shipping name** Consumer commodity  
**Hazard class** 9  
**Subsidiary hazard class** 3  
**UN number** ID8000  
**Packaging instructions** 910



**IATA****Basic shipping requirements:**

Proper shipping name Aerosols, flammable  
 Hazard class 2.1  
 Subsidiary hazard class 3  
 UN number 1950  
 Packaging instructions 203

**IMDG****Basic shipping requirements:**

Proper shipping name AEROSOLS, flammable  
 Hazard class 2  
 Subsidiary hazard class 3  
 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 - Food Additives Generally Recognized as Safe (GRAS)**

ALCOHOL DENAT. 64-17-5 21 CFR 184.1293  
 Isobutane 75-28-5 21 CFR 184.1165

**FEMA (Flavor and Extract Manufacturers Association) - FEMA Numbers**

ALCOHOL DENAT. 64-17-5 2419

**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. This safety datasheet complies with the requirements of Directive 2001/58/EC.

**State regulations**

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

**California - Proposition 65 - Developmental Toxicity**

ALCOHOL DENAT. 64-17-5 developmental toxicity, initial date 10/1/87 (when in alcoholic beverages)

**Massachusetts - Right To Know List**

ALCOHOL DENAT. 64-17-5 Teratogen  
Hydrofluorocarbon 152A 75-37-6 Present  
Isobutane 75-28-5 Present

**New Jersey - Right to Know Hazardous Substance List**

ALCOHOL DENAT. 64-17-5 sn 0844  
Hydrofluorocarbon 152A 75-37-6 sn 0715  
Isobutane 75-28-5 sn 1040

**Pennsylvania - RTK (Right to Know) List**

ALCOHOL DENAT. 64-17-5 Present  
Isobutane 75-28-5 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.

**Issue date**

20-Jun-2007