

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Identification**

Product form : Mixture  
Trade name : LIVING PROOF NO FRIZZ HUMIDITY SHIELD

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture : Cosmetics

**1.3. Details of the supplier of the safety data sheet**

Living Proof, Inc.  
301 Binney Street, 1st Floor  
Cambridge, MA 02142  
T: 617-621-1800 F: 617-621-1880  
QA@livingproof.com  
livingproof.com

**1.4. Emergency telephone number**

Emergency number : Chemtrec - +1-800-424-9300 or +1 703-527-3887

**SECTION 2: Hazard(s) identification****2.1. Classification of the substance or mixture****GHS-US classification**

Flam. Aerosol 1 H222 - Extremely flammable aerosol

Full text of H-phrases: see section 16

**2.2. Label elements****GHS-US labeling**

Hazard pictograms (GHS-US) :



GHS02

Signal word (GHS-US) : Danger  
Hazard statements (GHS-US) : H222 - Extremely flammable aerosol  
H240 - Heating may cause an explosion  
H320 - Causes Eye Irritation  
P211 - Do not spray on an open flame or other ignition source  
P251 - Pressurized container: Do not pierce or burn, even after use  
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

**2.3. Other hazards**

No additional information available

**2.4. Unknown acute toxicity (GHS US)**

Not applicable

**SECTION 3: Composition/information on ingredients****3.1. Substance**

Not applicable

**3.2. Mixture**

Name	Product identifier	%	GHS-US classification
Ethyl alcohol	(CAS No) 64-17-5	<40	Flam. Liq. 2, H225 Carc. 1A, H350 (Alcoholic beverages only; not applicable to this product)

Full text of H-phrases: see section 16

INGREDIENTS: Hydrofluorocarbon 152a, SD Alcohol 40-B/Alcohol Denat., Water/Eau/Aqua, Octafluoropentyl Methacrylate, Vinyl Caprolactam/VP/Dimethylaminoethyl Methacrylate Copolymer, Ethylhexyl Methoxycinnamate, Linoleamidopropyl Ethyldimonium Ethosulfate, Butylene Glycol, Propylene Glycol Dibenzate, PPG-5-Ceteth-20, Fragrance/Parfum, Citronellol, Butylphenyl Methylpropional, Citral.

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person; If affected person feels unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: If affected person is experiencing breathing difficulty, allow affected person to breathe fresh air. Allow affected person to rest.
First-aid measures after skin contact	: If adverse skin reaction occurs, remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water; Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Not expected to be a primary route of exposure.

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

Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/injuries after inhalation	: None under normal use. May cause respiratory irritation.
Symptoms/injuries after skin contact	: None under normal conditions.
Symptoms/injuries after eye contact	: None under normal conditions. Mild eye irritation.
Symptoms/injuries after ingestion	: None under normal use.

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Cool closed containers exposed to fire with water spray. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Reactivity	: Heating will cause rise in pressure with risk of bursting. Avoid ignition sources. Avoid temperature above 50°C.

#### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.

### SECTION 6: Accidental release measures

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

General measures : Eliminate every possible source of ignition.

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment	: Collect spillage.
Methods for cleaning up	: This material and its container must be disposed of in a safe way, and as per local legislation.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling	: Avoid contact with eyes. Do not breathe vapors.
Hygiene measures	: Do not eat, drink or smoke when using this product.

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

Storage conditions : Keep cool. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materials : Sources of ignition.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Ethyl alcohol (64-17-5)		
ACGIH	ACGIH STEL (ppm)	1000 ppm
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

### 8.2. Exposure controls

Personal protective equipment : None needed.

Hand protection : None needed.

Eye protection : None necessary.

Skin and body protection : None needed.

Respiratory protection : None needed.

Environmental exposure controls : Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : clear.

Color : yellowish

Odor : characteristic

Odor threshold : No data available

pH : 7 - 7.5

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : No data available

Explosion limits : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Vapor pressure : 40.88 mm Hg

Relative density : No data available

Relative vapor density at 20 °C : > 1

Specific gravity / density : 0.82 - 0.85 g/cm<sup>3</sup>

Solubility : Miscible with water.

Log Pow : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

### 9.2. Other information

VOC content : <= 55 %

Gas group : Compressed gas

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Heating will cause rise in pressure with risk of bursting. Avoid ignition sources. Avoid temperature above 50°C.

#### 10.2. Chemical stability

Extremely flammable aerosol. Contains gas under pressure; may explode if heated.

#### 10.3. Possibility of hazardous reactions

Heating may cause a fire or explosion.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

#### 10.5. Incompatible materials

Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

No additional information available

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Ethyl alcohol (64-17-5)	
LD50 oral rat	7060 mg/kg (historical information; not tested on animals for cosmetics)
LC50 inhalation rat (mg/l)	124.7 mg/l/4h (historical information; not tested on animals for cosmetics)
ATE US (oral)	7060.000 mg/kg body weight (historical information; not tested on animals for cosmetics)
ATE US (vapors)	124.700 mg/l/4h (historical information; not tested on animals for cosmetics)
ATE US (dust, mist)	124.700 mg/l/4h (historical information; not tested on animals for cosmetics)

Skin corrosion/irritation : Not classified  
pH: 7 - 7.5

Serious eye damage/irritation : Category 2B-Mild Irritant  
pH: 7 - 7.5

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified.

Ethyl alcohol (64-17-5)	
IARC group	1 - Carcinogenic to humans (Alcoholic beverages only; not applicable to this product)
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : None under normal use. May cause respiratory irritation.

Symptoms/injuries after skin contact : None under normal conditions.

Symptoms/injuries after eye contact : None under normal conditions. Mild eye irritation.

Symptoms/injuries after ingestion : None under normal use.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ethyl alcohol (64-17-5) (historical information; not tested on animals for cosmetics)	
LC50 fish 1	12.0 - 16.0 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	9268 - 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

Ethyl alcohol (64-17-5)	
Log Pow	-0.32

#### 12.4. Mobility in soil

No additional information available

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### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

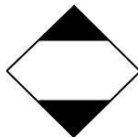
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Additional information : Handle empty containers with care because residual vapors are flammable.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1950 Aerosols, flammable, (each not exceeding 1 L capacity), 2.1  
UN-No.(DOT) : UN1950  
Proper Shipping Name (DOT) : Aerosols, flammable, (each not exceeding 1 L capacity)  
Transport hazard class(es) (DOT) : 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115  
Hazard labels (DOT) : LTD QTY - Limited quantity



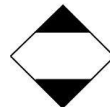
DOT Packaging Non Bulk (49 CFR 173.xxx) : None  
DOT Packaging Bulk (49 CFR 173.xxx) : None  
DOT Symbols : Limited quantities:  
DOT Special Provisions (49 CFR 172.102) : N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.  
DOT Packaging Exceptions (49 CFR 173.xxx) : 306  
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 75 kg  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg  
DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.  
DOT Vessel Stowage Other : 25 - Shade from radiant heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14, 126 - Segregation same as for Class 9, miscellaneous hazardous materials  
Emergency Response Guide (ERG) Number : 126  
Other information : No supplementary information available.

### TDG

No additional information available

### Transport by sea

UN-No. (IMDG) : 1950  
Proper Shipping Name (IMDG) : AEROSOLS, LTD QTY  
Class (IMDG) : 2 - Gases



### Air transport

UN-No. (IATA) : ID 8000  
Proper Shipping Name (IATA) : Consumer Commodity  
Class (IATA) : 9



## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product is not subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

### 15.2. International regulations

#### Canada

No additional information available

#### EU-Regulations

No additional information available

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### National regulations

No additional information available

### 15.3. US State regulations

California Proposition 65-This product does not contain substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

Ethyl alcohol (64-17-5)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
Yes (Alcoholic beverages only; not applicable to this product)	Yes	No	No	

Ethyl alcohol (64-17-5)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

tert-Butyl alcohol (75-65-0)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List

Hydrofluorocarbon 152a (200-866-1)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List

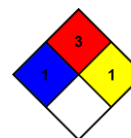
## SECTION 16: Other information

- Revision date : 09/15/2015
- Data sources : DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H-phrases listed in Sections 2-15:

Carc. 1A	Carcinogenicity Category 1A
Flam. Aerosol 1	Flammable aerosol Category 1
Flam. Liq. 2	Flammable liquids Category 2
H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapor
H350	May cause cancer
H320	Causes Eye Irritation

- NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
- NFPA fire hazard : 3 - Liquids and solids that can be ignited under almost all ambient conditions.
- NFPA reactivity : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.
- HMIS III Rating
- Health : 1 Slight Hazard - Irritation or minor reversible injury possible
- Flammability : 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)
- Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.



SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product