

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Identification

Product form : Mixture  
Trade name : LIVING PROOF PERFECT HAIR DAY (PhD) DRY SHAMPOO

### 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

Dermalogica Pty Ltd  
General Manager  
111 Chandos Street  
Crows Nest 2065  
Australia  
ABN: 46 067 065 105  
Tel: +61 2 8437-9600

### 1.4. Emergency telephone number

Emergency number : Chemtrec - +1-800-424-9300 or +1 703-741-5970  
: Chemtrec Australia (Sydney) +(61)-290372994

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

#### GHS classification

Flam. Aerosol 1 H222 - Extremely flammable aerosol  
Full text of H-phrases: see section 16

### 2.2. Label elements

#### GHS labeling

Hazard pictograms (GHS) :



GHS02

Signal word (GHS) : Danger  
Hazard statements (GHS) : H222 - Extremely flammable aerosol  
Precautionary statements (GHS) : P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking  
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

INGREDIENTS: Isobutane, Propane, Alcohol Denat., Oryza Sativa (Rice) Starch, Cellulose, Octafluoropentyl Methacrylate, Caprylyl Glycol, Dipropylene Glycol, Citronellyl Methylcrotonate, Hydroxypropylcellulose, Hydrated Silica, Cetrimonium Chloride, Zeolite, Ethylcellulose, Octoxynol-10, Distearidimonium Hectorite, Water/Eau/Aqua, Fragrance/Parfum, Ethylhexylglycerin, Phenethyl Alcohol, Benzyl Benzoate, Hexyl Cinnamal, Linalool, Coumarin.

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%	GHS-US classification
Ethyl alcohol	(CAS No) 64-17-5	<10	Flam. Liq. 2, H225 Carc. 1A, H350 NOTE: Alcoholic beverages only; not applicable to this product. This product uses denatured alcohol.

Full text of H-phrases: see section 16

### 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.
- Hazchem Code : Not Applicable

### 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.

#### 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.

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### 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.

### 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 : No data available  
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 : No data available  
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

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Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

### 9.2. Other information

VOC content : <=93%

Gas group : Compressed gas

## 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)

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

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 NOTE: Alcoholic beverages only; not applicable to this product. This product uses denatured alcohol.
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])

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### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

#### Ethyl alcohol (64-17-5)

Log Pow	-0.32
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### 12.4. Mobility in soil

No additional information available

### 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



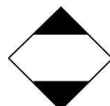
DOT Packaging Non Bulk (49 CFR 173.xxx) : None  
DOT Packaging Bulk (49 CFR 173.xxx) : None  
DOT Symbols : Limited quantities:  
DOT Special Provisions (49 CFR 172.102) : N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.  
DOT Packaging Exceptions (49 CFR 173.xxx) : 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

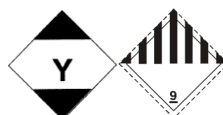
### Transport by sea

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




### ADG

UN-No. (ADG) : 1950  
Proper Shipping Name (ADG) : AEROSOLS

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Class (ADG)	: 2.1
Danger Label (ADG)	: 
Special Provision (ADG)	: 63, 190, 277, 327, 344
Limited Quantities (ADG)	: See SP 277
Packing Instructions (ADG)	: P207, LP02
Special Packing Provisions (ADG)	: PP87, L2
Hazchem Code	: Not applicable

## 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

#### National regulations

No additional information available

#### Australia regulations

Poisons Schedule number: unscheduled

### 15.3. US State regulations

California Proposition 65 - This product does not contain substances 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 NOTE: Alcoholic beverages only; Not applicable to this product. This product uses denatured alcohol.	Yes	No	No	
Benzyl alcohol (100-51-6)				
U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List				
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				
Isobutane (75-28-5)				
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				
Propane (74-98-6)				
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				

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### Starch (9005-25-8)

U.S. - Massachusetts - Right To Know List  
U.S. - Pennsylvania - RTK (Right to Know) List

### Cellulose (9004-34-6)

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

### Silica, amorphous, precipitated and gel (112926-00-8)

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

## SECTION 16: Other information

### 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

### NFPA health hazard

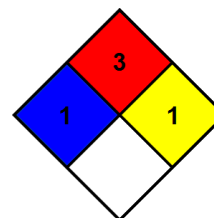
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

### 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 (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*