

**SECTION 1: Identification****1.1. Identification**

Product form : Mixture  
Trade name : PhD Advanced Clean Dry Shampoo

**1.2. Recommended use and restrictions on use**

Recommended use : Cosmetics

**1.3. Supplier**

Living Proof, Inc.  
One Design Center Place  
Suite 600  
Boston, MA 02210  
T: 617-621-1800 F: 617-621-1880

**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**

Flammable aerosol Category 1 : Extremely flammable aerosol  
Gases under pressure Compressed gas : Contains gas under pressure; may explode if heated

**2.2. GHS Label elements, including precautionary statements****GHS US labeling**

Hazard pictograms (GHS US) : 

Signal word (GHS US) : Danger

Hazard statements (GHS US) : Extremely flammable aerosol  
Contains gas under pressure; may explode if heated

Precautionary statements (GHS US) : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Do not spray on an open flame or other ignition source.  
Pressurized container: Do not pierce or burn, even after use.  
Protect from sunlight. Store in a well-ventilated place.  
Do not expose to temperatures exceeding 50 °C/122 °F.

**2.3. Other hazards which do not result in classification**

No additional information available

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

Not applicable

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### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Ethyl alcohol	CAS-No.: 64-17-5	8.07	Flam. Liq. 2, H225 Eye Irrit. 2A, H319

INGREDIENTS: Hydrofluorocarbon 152a, Isobutane, Alcohol Denat., Oryza Sativa (Rice) Starch, Propane, Cyclodextrin, Zea Mays (Corn) Starch, Furcellaria Lumbricalis Extract, Hydrated Silica, Hydroxypropyl Arginine Lauryl/Myristyl Ether HCl, Tetraselmis Suecica Extract, Isopropyl Lauroyl Sarcosinate, Cetrimonium Chloride, Glycerin, Mannitol, Polyvinyl Alcohol, Disteardimonium Hectorite, Water/Eau/Aqua, Fragrance/Parfum, Citronellyl Methylcrotonate, Linalool, Citronellol, Benzyl Salicylate, Citral, Limonene

### 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 you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: If skin irritation 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. Seek medical attention if ill effect or irritation develops.
First-aid measures after ingestion	: Not expected to be a primary route of exposure.

#### 4.2. Most important symptoms and effects (acute and delayed)

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

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: None known.

#### 5.2. Specific hazards arising from the chemical

Fire hazard	: Extremely flammable aerosol. Cool closed containers exposed to fire with water spray. Contains gas under pressure; may explode if heated.
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

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### 5.3. Special protective equipment and precautions for fire-fighters

- 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.

### 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". For disposal of residues refer to section 13: "Disposal considerations".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with eyes. Do not breathe vapors. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- 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. Store in a well-ventilated place.
- Incompatible materials : Strong oxidizing agents.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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No additional information available

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Ethyl alcohol (64-17-5)	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Ethanol
ACGIH OEL STEL [ppm]	1000 ppm
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2021
<b>USA - OSHA - Occupational Exposure Limits</b>	
Local name	Ethyl alcohol (Ethanol)
OSHA PEL (TWA) [1]	1900 mg/m <sup>3</sup>
OSHA PEL (TWA) [2]	1000 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
<b>USA - IDLH - Occupational Exposure Limits</b>	
IDLH [ppm]	3300 ppm (10% LEL)
<b>USA - NIOSH - Occupational Exposure Limits</b>	
NIOSH REL (TWA)	1900 mg/m <sup>3</sup>
NIOSH REL TWA [ppm]	1000 ppm

### 8.2. Appropriate engineering controls

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

None under normal use.

#### Hand protection:

None under normal use

#### Eye protection:

None under normal use

#### Skin and body protection:

None under normal use

#### Respiratory protection:

None under normal use

## SECTION 9: Physical and chemical properties

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

Physical state : Liquid  
Appearance : Clear

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Color	: Off-white
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)	: Extremely flammable aerosol.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

VOC content : < 19 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Heating will cause a rise in pressure with a 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 hazardous decomposition products known at room temperature.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

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Ethyl alcohol (64-17-5)	
LD50 oral rat	7060 mg/kg
LC50 Inhalation - Rat	124.7 mg/l/4h
Skin corrosion/irritation	: Not classified (On basis of test data)
Serious eye damage/irritation	: Not classified (On basis of test data)
Respiratory or skin sensitization	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)

Ethyl alcohol (64-17-5)	
NOAEL (subchronic,oral,animal/male,90 days)	< 9700 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)
NOAEL (subchronic,oral,animal/female,90 days)	> 9400 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Viscosity, kinematic	: No data available
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: None under normal use. May cause respiratory irritation.
Symptoms/effects after skin contact	: None under normal conditions.
Symptoms/effects after eye contact	: None under normal conditions. May cause slight temporary irritation.
Symptoms/effects after ingestion	: None under normal use.
Other information	: Historical Data, not tested on Animals for cosmetics. Likely routes of exposure: inhalation, skin and eye.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Historical Data, not tested on Animals for cosmetics.

Ethyl alcohol (64-17-5)	
LC50 - Fish [1]	12 – 16 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
LC50 - Other aquatic organisms [1]	5012 mg/l 48 hours- daphnia
EC50 - Crustacea [1]	9268 – 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Other aquatic organisms [1]	5012 mg/l waterflea
LC50 - Fish [2]	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [2]	2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 - Other aquatic organisms [2]	275 mg/l
ErC50 algae	275 mg/l Source: ECHA
ErC50 other aquatic plants	4432 mg/l
NOEC (acute)	9.6 mg/l Daphnia magna
NOEC (chronic)	9.6 mg/l Test organisms (species): Daphnia magna Duration: '9 d'

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### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

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

Partition coefficient n-octanol/water (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 ozone layer : No additional information available

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

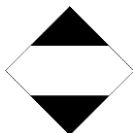
## SECTION 14: Transport information

Consult the associated transport regulations for available and applicable exceptions or exemptions.

### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1950 Aerosols, 2.1  
UN-No.(DOT) : UN1950  
Proper Shipping Name (DOT) : Aerosols  
Technical Shipping Name (DOT) : Not applicable  
Hazard class (DOT) : 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115  
Subsidiary hazard class (DOT) : None  
Packing group (DOT) : None  
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 Special Provisions (49 CFR 172.102) : N82.  
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  
DOT Vessel Stowage Other : 25;87;126  
Emergency Response Guide (ERG) Number : 126

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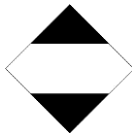
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Other information : No supplementary information available.

### Transportation of Dangerous Goods

In accordance with TDG

UN-No. (TDG) : UN1950  
TDG Primary Hazard Classes : 2.1 - Class 2.1 - Flammable Gas  
Subsidiary hazard classes : None  
Transport document description : UN1950 AEROSOLS, 2.1  
Proper Shipping Name (Transportation of Dangerous Goods) : AEROSOLS  
Technical Shipping Name (TDG) : Not applicable  
Hazard labels (TDG) : LTD QTY - Limited quantity

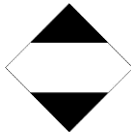


Packing group : None  
TDG Special Provisions : 80, 107  
Explosive Limit and Limited Quantity Index : 1 L  
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 75 L

### Transport by sea

In accordance with IMDG

Transport document description (IMDG) : UN 1950 AEROSOLS, 2.1, LTD QTY  
UN-No. (IMDG) : UN 1950  
Proper Shipping Name (IMDG) : AEROSOLS  
Technical Shipping Name (IMDG) : Not applicable  
Transport hazard class(es) (IMDG) : 2.1  
Subsidiary hazard class(es) (IMDG) : None  
Danger labels (IMDG) : LTD QTY - Limited quantity



Packing group (IMDG) : Not applicable  
Special provisions (IMDG) : 63, 190, 277, 327, 344, 381, 959  
Limited Quantities (IMDG) : SP277  
Packing instructions (IMDG) : P207, LP200  
Special packing provisions (IMDG) : PP87, L2  
EmS-No. (Fire) : F-D  
EmS-No. (Spillage) : S-U  
Stowage category (IMDG) : None  
Stowage and handling (IMDG) : SW1, SW22  
Segregation (IMDG) : SG69



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### Air transport

In accordance with IATA

**May also be transported as a consumer commodity when classified as ID8000 under Class 9 Miscellaneous Dangerous Goods.**

Transport document description (IATA)	: UN 1950 Aerosols, flammable, 2.1
UN-No. (IATA)	: UN 1950
Proper Shipping Name (IATA)	: Aerosols, flammable
Technical Shipping Name (IATA)	: Not applicable
Transport hazard class(es) (IATA)	: 2.1
Subsidiary hazard class(es) (IATA)	: None
Danger labels (IATA)	: 2.1, LTD QTY - Limited quantity



Packing group (IATA)	: Not applicable
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
Special provisions (IATA)	: A145, A167, A802
ERG code (IATA)	: 10L

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

No additional information available.

### 15.2. International regulations

#### CANADA

No additional information available.

#### EU-Regulations

No additional information available.

#### National regulations

No additional information available.

### 15.3. US State regulations

No additional information available.

## SECTION 16: Other information

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Revision date	: 25 March 2021
Other information	: None.

Safety Data Sheet (SDS), USA

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