

# SAFETY DATA SHEET      RED ANGEL AEROSOL



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## 1. IDENTIFICATION OF THE CHEMICAL AND OF MANUFACTURER, IMPORTER OR OTHER UNDERTAKING

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### 1.1 Identification of the substance or preparation

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Trade name: RED ANGEL AEROSOL  
Code of the preparation: 012309

#### Use of the chemical

- 1.1.1 The intended uses of the chemical: This product is an aerosol petroleum oil sealant.
  - 1.1.2 Standard industrial classification (SIC): 2992
  - 1.1.3 Use categories: Aerosol liquid oil sealant.
  - 1.1.4 The chemical can be used by the general public
  - 1.1.5 The chemical is used by the professionals and the general public.
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### 1.2 Identification of the manufacture, importer or other undertaking

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#### 1.2.1 manufacturer, importer, or other undertaking

##### Contact information:

Information on distributor:  
Universal Products, Inc.  
5626 Southwestern Blvd.  
Baltimore, MD 21227

Telephone number: 410-247-3248

#### 1.3.2 Information on foreign manufacture:

Aerosol and Liquid Packaging, Inc.  
715 S. Haven Street  
Baltimore, MD, 21224-4348  
Telephone number: 410-342-6100  
Fax number: 410-675-1636

#### 1.3.3 Information on Packager:

Universal Products, Inc.  
1725 Signal Point Road, Bldg. #C.  
Charleston, SC 29412  
Telephone number: 843-795-4920

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### 1.4 Emergency telephone

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**FOR CHEMICAL EMERGENCY OR INGESTION 24/7  
CALL INFOTRAC (USA) 1-800-535-5053 OR  
INTERNATIONAL CALL COLLECT 1-352-323-3500**

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## 2. COMPOSITION AND INFORMATION ON INGREDIENTS

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### 2.1 Hazardous Ingredients

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2.1.1	2.1.2	2.1.3	2.1.4	
-CAS #	EINECS #	Name	%	Warning, Risk phrases
811-97-2	212-377-0	1,1,1,2-tetrafluoroethane*	< 55	R12
64741-88-4	ND	Refined Petroleum oil	< 42	R20/22
ND	ND	Proprietary Solution	< 3	Not applicable

\*Simple asphyxiant

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2.1.5 Confidential ingredients: Proprietary Solution

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2.1.6 A substance not dangerous listed as confidential: Proprietary Solution

2.1.7 Other information: None

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## 3 HAZARDOUS IDENTIFICATION

### Human

This product may cause irritation to respiratory tract or if inhaled act as a simple asphyxiant and if swallowed it may cause irritation.

### Safety

Aerosol is simple asphyxiant. It may be an irritant to persons with a pre-existing skin conditions and cause aggravation with prolonged exposure. Keep out of eyes. Do not swallow.

### Ecological

This product is likely to under go long term degradation.

## 4. FIRST AID MEASURES

- 4.1 Special instructions: Aerosol may act as simple asphyxiant and cause eye irritation, flush with water for at least 15 minutes. Seek medical attention if person is experiencing any irritation.
- 4.2 Inhalation: Remove person to fresh air. Acts as a simple asphyxiant and may be a mild irritant to respiratory tract.
- 4.3 Ingestion: May cause irritation, do not induce vomiting, and seek medical attention.
- 4.4 Skin contact: May irritate skin of person with a previous dermatitis problem.

## 5. FIRE-FIGHTING MEASURES

- 5.1 Suitable extinguishing media: Use appropriate method for surrounding fire (dry chemical, and carbon dioxide).
- 5.2 Extinguishing media must not be used for safety reasons: None known
- 5.3 Special exposure hazards in fire: Oxides of carbon and Hydrofluoric acid and carbonyl fluoride.
- 5.4 Special protective equipment for fire-fighters: Acts as simple asphyxiant. Wear full bunker gear with SCBA:
- 5.5 Other instructions: Burn with black smoke.

## 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions: Wash hands thoroughly after contact.
- 6.2 Environmental precautions: Check with federal, territorial, state and local agencies.
- 6.3 Methods for cleaning up: Absorb liquid with an inert material and dispose in proper container.
- 6.4 Other instructions: Material is a liquid.

## 7. HANDLING AND STORAGE

- 7.1 Handling: Store the petroleum oil in original container with cap tightened when not in use.
- 7.2 Storage: Keep in cool dry area. Keep away from children.
- 7.3 Specific use(s): Petroleum oil sealant.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure limit values

- 8.1.1 HTP values: None
- 8.1.2 Other limit values: :Oil mist OSHA TWA (USA) 5 mg/m<sup>3</sup>
- 8.1.3 Limit values in other countries:
- 8.1.4 Oil mist: TWA (ACIS, CI, DSL, ECL, EINECS,PICCS, TSCA) 5 mg/m<sup>3</sup>

### 8.2 Exposure controls

- 8.2.1 Occupational exposure controls: Work in well-ventilated area.
- 8.2.2 Respiratory protection: Work in well-ventilated area and may need to wear air supplied respirator.

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- 8.2.3 Hand protection: Protective gloves recommended with extended use.  
8.2.4 Eye protection: Splash proof goggles or safety glasses. If used in production facility have eye wash and shower station.  
8.2.5 Skin protection: Always protect your skin when working with chemicals.  
8.2.6 Environmental exposure controls: None

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

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9.1 General information (physical state, colour and odour). The aerosol product has a medium red colour and the odour of petroleum products.

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#### 9.2 Important health, safety and environmental information

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9.2.1	pH:	NA
9.2.2	Boiling point/boiling range:	112 °C (233 °F)
9.2.3	Flash point:	Not determined
9.2.4	Flammability (solid, gas):	Aerosol liquid.
9.2.5	Explosive properties:	None.
9.2.5.1	Lower explosive limit:	NE.
9.2.5.2	Upper exposure limit:	NE.
9.2.6	Oxidizing properties:	Not an oxidizer.
9.2.7	Vapour pressure:	100 torr @ 20 °C (68 °F)
9.2.8	Vapour gravity:	1.04 @ 24 °C (77 °F)
9.2.9	Solubility:	Slightly soluble in alcohols.
9.2.9.1	Water solubility:	Slightly soluble in water
9.2.9.2	Fat solubility (solvent-oil to be specified):	ND
9.2.10	Partition coefficient: n-octanol/water:	ND:
9.2.11	Evaporation rate:	Negligible.

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#### 9.3 Other information

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### 10. STABILITY AND REACTIVITY

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10.1	Conditions to avoid:	Do not store above 120.6 °F or 66 °C.
10.2	Materials to avoid:	Strong oxidizers, alkali or alkaline earth metals (Al, Be, Zn, .etc)
10.3	Hazardous decomposition products:	Oxides of carbon, hydrofluoric acid and carbonyl fluoride.
10.4	Hazardous polymerization:	Will not occur.
10.5	Other:	Avoid very high heat and open flames.

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### 11. TOXICOLOGICAL INFORMATION

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11.1	Acute toxicity:	None expected.
11.2	Irritation and corrosiveness:	Not corrosive, a mild-irritant to eyes.
11.3	Sensitisation:	May be sensitive with pre-existing dermatitis.
11.4	Sub-acute, sub-chronic and prolonged toxicity:	None known
11.5	Empirical data on effects on humans:	None known.
11.6	Other information on health effects:	Ingestion of liquid may affect respiratory tract.

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### 12. ECOLOGICAL INFORMATION

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12.1	Ecotoxicity:	Not available
12.1.1	Aquatic toxicity:	Bio-degradable long term.
12.1.2	Toxic to other organisms:	None known.
12.2	Mobility:	Not very mobile in water phase
12.3	Persistence and degradability:	
12.3.1	Biodegradation:	Yes, long term
12.3.2	Chemical degradation:	Yes
12.4	Bioaccumulation potential:	Low to medium

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12.5 Other adverse effects: None known

**13. DISPOSAL CONSIDERATIONS**

Dispose in accord with National regulations.

**14. TRANSPORTATION INFORMATION**

14.1 UN number: UN1950

14.2 Packing group: None

14.3 Land transport

14.3.1 Transport class: 2.2

14.3.2 Risk code: Aerosol

14.3.3 Name according to bill of freight: RED ANGEL AEROSOL

14.3.4 Proper shipping description: Aerosols, 2.2, UN1950

14.3.5 Exceptions: Can qualify as ORM-D Consumer Commodity (See 49 CFR Part 173.306)

14.3.6 Other: Non-flammable

14.4 Air transport

14.4.1 ICAO/IATA class 2.2.

14.4.2 Correct technical name: 1,1,1,2-tetrafluoroethane

14.4.3 Proper shipping description: UN1950, Aerosols, 2.2

14.4.4 Exceptions: Qualifies for limited quantity (LTD QTY)

14.4.5 Limit of package: 30 KG with packing instructions Y203

14.4.6 Other information: Non-flammable

14.5 Water transport

14.5.1 IMDG class 2.2

14.5.2 Correct technical name: 1,1,1,2-tetrafluoroethane

14.5.3 Proper shipping description: UN1950, Aerosols, 2.2

14.5.4 Exceptions: Special provision 63 and special provision 277 for limited quantity.

14.5.5 Other information: Packing instructions P003 and LP02

**15. REGULATORY INFORMATION**

15.1 Information on the warning label: CAUTION

15.1.1 Letter code on warning symbol and indications of danger for the preparation: None

15.1.2 Names of the ingredients given on the label: 1,1,1,2-tetrafluoroethane, Refined petroleum oil, proprietary colourant

15.1.3 R phrases: R20/21/22

15.1.4 S phrases: S2/3/9, S23/24/25, S36/37/38/39

15.1.5 WHMIS: X<sub>i</sub> (Irritant)

15.1.6 Special regulations on certain preparations: None

15.2 National regulations

**16. OTHER INFORMATION**

16.1 National Fire Protection Association (NFPA) Hazardous Materials Identification System (HMIS)

NFPA	HMIS
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0 Least

1 Health	1 Slight	1 Health
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1 Fire	2 Moderate	1 Fire
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0 Instability	3 High	0 Reactivity
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4 Severe	D PPE
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16.2 List of relevant R phrases: R20/21/22,

16.3 Training advice S phrases: S2/3/9, S23/24/25, S36/37/38/39

