

SAFETY DATA SHEET

RED ANGEL AEROSOL

Date: February 2, 2009

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Reviewed by Wayne L Grube Sr.

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

1.1 Identification of the substance or preparation

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.

1.2 Identification of the manufacture, importer or other undertaking

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

1.4 Emergency telephone

FOR CHEMICAL EMERGENCY OR INGESTION 24/7

CALL INFOTRAC (USA) 1-800-535-5053 OR

INTERNATIONAL CALL COLLECT 1-352-323-3500

2. COMPOSITION AND INFORMATION ON INGREDIENTS

2.1 Hazardous Ingredients

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

2.1.5 Confidential ingredients: Proprietary Solution

2.1.6 A substance not dangerous listed as confidential: Proprietary Solution

2.1.7 Other information: None

3 HAZARDOUS IDENTIFICATION



X1

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.
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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.
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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.
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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.
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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 ³ |
| 8.1.3 | Limit values in other countries: | |
| 8.1.4 | | Oil mist: TWA (ACIS, CI, DSL, ECL, EINECS,PICCS, TSCA)
5 mg/m ³ |
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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.
- 8.2.3 Hand protection: Protective gloves recommended with extended use.
- 8.2.4 Eye protection: Splash proof goggles of 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.

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8.2.6 Environmental exposure controls: None

9. PHYSICAL AND CHEMICAL PROPERTIES

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

9.2 Important health, safety and environmental information

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.

9.3 Other information**10. STABILITY AND REACTIVITY**

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.

11. TOXICOLOGICAL INFORMATION

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.

12. ECOLOGICAL INFORMATION

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
12.5	Other adverse effects:	None known

13. DISPOSAL CONSIDERATIONS

Dispose in accord with National regulations.

14. TRANSPORTATION INFORMATION

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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 _i (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
		0 Least
	1 Health	1 Slight
	1 Fire	2 Moderate
	0 Instability	3 High
		4 Severe
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
16.4	Restrictions on use:	None
16.5	Sources of key data used:	EU, EEC Directives on the Control of Dangerous Substances and Preparations (67/548/EEC), Council Directive 88/379/EEC, WHMIS, NIOSH and OSHA 29 CFR Part 1910.1200.
16.6	This product contains no Prop 65 material or is cancerous.	
16.7	This is a revised Safety Data Sheet to meet new format.	

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- 16.8 Refined petroleum oil and 1,1,1,2-tetrafluoroethane are ingredients listed in the following inventories:
USA (TSCA); China (CI); Korea (ECL); Canada (DSL); Philippines (PICCS); Europe (EINECS); Japan (MITI) and Australia (AICS).
- 16.9 None of the ingredients are listed for right to know in CA, MA, MN, NJ & PA.
- 16.10 Abbreviations:
- | | |
|----------|----------------------------------------------------------------------------------------------------------------------|
| AICS | Australian Inventory of Chemical Substances |
| CAS # | Chemical Abstract Service Number |
| cST | centistokes |
| °C | Celsius temperature scale |
| CI | China |
| DSL | Canada |
| ECL | Korean Existing Chemicals List |
| EEC | European Economic Commission |
| ENCS | Japanese Existing and New Chemical List |
| EINECS # | European Inventory of Existing Chemical Substances Number |
| EU | European Union |
| °F | Fahrenheit |
| Israel | 2001 proposed list of chemical substances to be regulated under Israel Hazardous Substances Law and Regulations List |
| MAC | Netherlands |
| MAK | Germany |
| MITI | Ministry of International trade and Industry |
| NA | Not applicable |
| MITI | Japan |
| ND | Not determined |
| NE | None established |
| PICCS | Philippines |
| PPE | Personal Protective Equipment |
| Prop. | Proprietary |
| SUS | Saybolt Universal Viscosity |
| SWISS | Giftliste 1 |
| SWISS | Inventory of Notified New Substances |
| TSCA | Toxic Substance Control Act |
| (Taiwan) | List of Toxic Chemical Substances regulated under Taiwan
Toxic Chemical Substances Control Act of 1086 |
| UK | United Kingdom |
| USA | United States |
- 16.11 Information which has been added, deleted or revised: New SDS

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