

ARMOR COAT RP FIRE RED 6 X 340GM

Version 2.

Print Date 08/11/2009

REVISION DATE: 06/09/2009

SECTION 1 - PRODUCT IDENTIFICATION / PREPARATION INFORMATION**Product Information**

Trade name : ARMOR COAT RP FIRE RED 6 X 340GM
 Product code : 47049RP522

Supplier : Tremco Canada division
 220 Wicksteed Avenue
 Toronto, ON M4H 1G7

Telephone : (416) 421-3300
 Emergency Phone: : (613) 996-6666

Product use : Coating

Preparation Information

Prepared by: : Sewnauth Raghunandan
 Date: : 06/09/2009
 Telephone : (416) 421-3300

SECTION 2 - HAZARDS IDENTIFICATION**Emergency Overview**

Red. Aerosol. May cause nausea, headaches, and dizziness. May cause drowsiness, weakness, and fatigue. Vapor and/or mist may irritate nose and throat. May cause moderate irritation to the respiratory system. Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel.

Acute Potential Health Effects/ Routes of Entry

Inhalation : May cause nausea, headaches, and dizziness. May cause drowsiness, weakness, and fatigue. Vapor and/or mist may irritate nose and throat. May cause moderate irritation to the respiratory system.
 Eyes : Vapor and/or mist may cause eye irritation. Direct contact may cause temporary redness and discomfort.
 Ingestion : May cause irritation to the mouth, throat and stomach. May cause gastrointestinal irritation, nausea, and vomiting.
 Skin : May cause mild irritation.

Aggravated Medical Conditions

Pre-existing eye, skin, liver, kidney, and respiratory disorders may be aggravated by exposure.

Chronic Health Effects

Propellants in product, such as propane and isobutane, are asphyxiants and can be anesthetic at high concentrations. Repeated overexposure to vapors and/or material may injure the liver, kidneys and respiratory system unless suitable engineering controls and/or personal protective equipment are used. Prolonged or repeated exposure to xylene may cause defatting, drying, and irritation of the skin, dermatitis, central nervous system (CNS) effects, heart muscle sensitization and arrhythmia, hearing loss, and brain, liver, kidney damage. Xylene overexposure may affect fetal development. Prolonged or repeated overexposure to acetone may cause liver damage, Central Nervous System depression and narcosis. IARC has determined that there is inadequate evidence for the carcinogenicity of cobalt 2-ethylhexanoate. However, IARC has determined that cobalt and cobalt compounds are possible human carcinogens. The International Agency for Research on Cancer (IARC) has evaluated ethylbenzene and classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans.

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Propellants in product, such as propane and isobutane, are asphyxiants and can be anesthetic at high concentrations. Prolonged or repeated exposure to mineral spirits (petroleum naphtha or stoddard solvent) may cause defatting, drying, and irritation of the skin, dermatitis, central nervous system (CNS) effects, and adverse liver, kidney, and lung effects.

Target Organs: Eyes., Skin.

SECTION 3 : HAZARDOUS INGREDIENTS

Chemical Name	CAS-No.	Weight % Range
Acetone	67-64-1	30.0 - 60.0
Stoddard solvent (Mineral Spirits)	8052-41-3	15.0 - 40.0
Liquefied petroleum gases	68476-86-8	15.0 - 40.0
Isobutane	75-28-5	7.0 - 13.0
Xylene	1330-20-7	5.0 - 10.0
Ethylbenzene	100-41-4	1.0 - 5.0
1,2,4-Trimethylbenzene	95-63-6	0.1 - 1.0
Cobalt (II) 2-ethylhexanoate	136-52-7	0.1 - 1.0

The ingredients listed above are hazardous as defined in the controlled products regulation. (CPR).

SECTION 4 - FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

Inhalation	:	Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel.
Eye contact	:	Flush with water for at least 15 minutes while holding eye lids apart. Get medical attention immediately.
Skin contact	:	Clean area of contact thoroughly using soap and water. If irritation, rash or other disorders develop, get medical attention immediately.
Ingestion	:	Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

SECTION 5: FIRE / EXPLOSION HAZARDS

Flash point	:	40 °C, 104 °F
Method	:	Setaflash Closed Cup
Burning rate	:	Flame Extension 45cm+
Lower explosion limit	:	1.00 %(V) Solvent
Upper explosion limit	:	7.1 %(V) Solvent
Autoignition temperature	:	Not available.
Extinguishing media	:	If water fog is ineffective, use carbon dioxide, dry chemical or foam.
Hazardous combustion products	:	Carbon monoxide and carbon dioxide can form. Smoke, fumes. Oxides of cobalt. Oxides of barium. Oxides of zirconium. Oxides of titanium. Oxides of boron.



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- Protective equipment for firefighters : Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA). Water may be used to cool containers to minimize pressure build-up.
- Fire and explosion conditions : Extremely flammable vapors. Closed container, may burst when exposed to extreme heat. Vapor concentrations in enclosed areas may ignite explosively. Empty containers may contain ignitable vapors. Vapors may travel to sources of ignition and flashback. Contents under pressure. Do not puncture or incinerate. Do not expose to heat or store at temperatures above 100°F/38°C.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Avoid contact with material. Remove sources of ignition immediately. Stop flow of material if safe to do so. Contain spill and keep out of water courses. Ventilate area.

SECTION 7 - HANDLING AND STORAGE

Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Do not smoke, weld, generate sparks, or use flame near container. Store under dry warehouse conditions away from heat and all ignition sources. Keep away from heat and flame. Store below 100 F/38C. Do not store in direct sunlight. Do not puncture or incinerate aerosol containers, even when empty. Do not freeze.

SECTION 8 - PREVENTIVE MEASURES/EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection equipment

- Respiratory protection : Wear appropriate, properly fitted NIOSH/MSHA approved organic vapor or supplied air respirator when airborne contaminant level(s) are expected to exceed exposure limits indicated on the MSDS. Follow manufacturer's directions for respirator use.
- Hand protection : Use suitable impervious nitrile or neoprene gloves and protective apparel to reduce exposure.
- Eye protection : Wear appropriate eye protection. Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.
- Skin and body protection : Typical full cover clothing.
- Protective measures : Use professional judgment in the selection, care, and use.
- Engineering measures** : Use only in well ventilated areas. Provide maximum ventilation in enclosed areas. Use general ventilation and/ or local exhaust to reduce the airborne contaminant concentration below the exposure limit listed in the MSDS

Exposure Limits

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Regulation</u>	<u>Limit</u>	<u>Form</u>
Acetone	67-64-1	Ontario TWAEV:	500 ppm	
		Ontario STEV:	750 ppm	
		ACGIH TWA:	500 ppm	
		ACGIH STEL:	750 ppm	

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<u>Chemical Name</u>	<u>CAS Number</u>	<u>Regulation</u>	<u>Limit</u>	<u>Form</u>
Stoddard solvent (Mineral Spirits)	8052-41-3	Ontario TWAEV: ACGIH TWA:	525 mg/m3 100 ppm	
Isobutane	75-28-5	ACGIH TWA: Ontario TWAEV: Ontario TWAEV:	1,000 ppm 1,000 ppm 1,900 mg/m3	
Xylene	1330-20-7	Ontario TWAEV: Ontario STEV: ACGIH TWA: ACGIH STEL:	435 mg/m3 650 mg/m3 100 ppm 150 ppm	
Ethylbenzene	100-41-4	Ontario TWAEV: Ontario STEV: ACGIH TWA: ACGIH STEL:	435 mg/m3 540 mg/m3 100 ppm 125 ppm	
1,2,4-Trimethylbenzene	95-63-6	Ontario TWAEV: ACGIH TWA:	123 mg/m3 25 ppm	
Cobalt (II) 2-ethylhexanoate	136-52-7	ACGIH TWA:	0.02 mg/m3	as Co

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Liquid
Form	: Aerosol
Color	: Red
Odor	: Petroleum
pH	: Not available.
Vapour pressure	: Not available.
Vapor density	: Heavier than air
Melting point/range	: Not available.
Freezing point	: Not available.
Boiling point/range	: 400 °C, 752 °F
Water solubility	: Slightly soluble
Evaporation Rate:	: Not available.
Specific Gravity	: 0.87
% Volatile Weight	: 63 %

SECTION 10 - REACTIVITY / STABILITY

Substances to avoid	: Oxidizing agents.
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SECTION 11 - TOXICOLOGICAL INFORMATION

Acetone, CAS-No.: 67-64-1	
Acute oral toxicity (LD-50 oral)	9,800 mg/kg (Rat) 3,000 mg/kg (Mouse) 5,340 mg/kg (Rabbit) 5.2 g/kg (Mouse) 5,800 mg/kg (Rat)
Acute inhalation toxicity (LC-50)	50.1 mg/l for 8 h (Rat) 76 mg/l for 4 h (Rat)
Acute dermal toxicity (LD-50 dermal)	20,000 mg/kg (Rabbit) 20 mg/kg (Rabbit)
Xylene, CAS-No.: 1330-20-7	
Acute oral toxicity (LD-50 oral)	4,300 mg/kg (Rat) 1,590 mg/kg (Mouse) 6,670 mg/kg (Rat) 3,523 - 8,600 mg/kg (Rat) 5,627 mg/kg (Mouse)
Acute inhalation toxicity (LC-50)	6,350 mg/l for 4 h (Rat) 3,907 mg/l for 6 h (Mouse) 8,000 mg/l for 4 h (Rat)
Ethylbenzene, CAS-No.: 100-41-4	
Acute oral toxicity (LD-50 oral)	5,460 mg/kg (Rat) 3,500 mg/kg (Rat)
Acute dermal toxicity (LD-50 dermal)	17,800 mg/kg (Rabbit)

SECTION 12 - ECOLOGICAL INFORMATION

No Data Available

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Disposal Method : Dispose according to all applicable regulations (hazardous household waste depot, or as liquid industrial waste for industrial product)., Recycle or dispose of in compliance with local, provincial and federal regulations.

SECTION 14 - TRANSPORTATION / SHIPPING DATA

TDG / DOT Shipping Description:
LIMITED QUANTITY

SECTION 15 - REGULATORY INFORMATION**North American Inventories:**

All components are listed or exempt from the TSCA inventory.

This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

Canadian Regulations:

WHMIS Classification : A, B5, D2A, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Other Regulations:



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Regulatory VOC (less water and exempt solvent) : 552 g/l

SECTION 16 - OTHER INFORMATION

HMIS Rating :

Health	3
Flammability	4
Reactivity	0
PPE	

0 = Minimum
 1 = Slight
 2 = Moderate
 3 = Serious
 4 = Severe

Further information:

Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to his own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

Prepared by: Sewnauth Raghunandan

Legend

- ACGIH - American Conference of Governmental Hygienists
- DOT - Department of Transportation
- DSL - Domestic Substance List
- EPA - Environmental Protection Agency
- HMIS - Hazardous Materials Information System
- IARC - International Agency for Research on Cancer
- MSHA - Mine Safety Health Administration
- NDSL - Non-Domestic Substance List
- NIOSH - National Institute for Occupational Safety and Health
- NTP - National Toxicology Program
- OSHA - Occupational Safety and Health Administration
- PEL - Permissible Exposure Limit
- RCRA - Resource Conservation and Recovery Act
- STEL - Short Term Exposure Limit
- TLV - Threshold Limit Value
- TSCA - Toxic Substances Control Act
- TWA - Time Weighted Average
- V - Volume
- VOC - Volatile Organic Compound
- WHMIS - Workplace Hazardous Materials Information System