

# MATERIAL SAFETY DATA SHEET

**CRC RED URETHANE Product Name** 

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Supplier Name CRC INDUSTRIES (AUST) PTY LIMITED** 

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2044 - MANUFACTURER'S CODE • 2044 RED URETHANE SEAL COAT (AEROSOL) • CRC 2044 RED Synonym(s)

URETHANE SEAL COAT (AEROSOL) (FORMERLY)

Use(s) AEROSOL DISPENSED • INSULATION • PROTECTOR

**SDS Date** 01 Apr 2010

# 2. HAZARDS IDENTIFICATION

# **CLASSIFIED AS HAZARDOUS ACCORDING TO ASCC CRITERIA**

#### **RISK PHRASES**

R11 Highly flammable.

R20/21 Harmful by inhalation and in contact with skin.

**R38** Irritating to skin.

# **SAFETY PHRASES**

**S16** Keep away from sources of ignition - No smoking.

S2 Keep out of reach of children. S25 Avoid contact with eyes. S29 Do not empty into drains.

S33 Take precautionary measures against static discharges.

S45 In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

S53 Avoid exposure - obtain special instructions before use.

#### CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN No. 1950 **DG Class** 2.1 Subsidiary Risk(s) None Allocated

**EPG Packing Group** None Allocated Hazchem Code 2Y 2D1

# 3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
LIQUEFIED PETROLEUM GAS (LPG)	C3H8/C3H6/C4H10	68476-85-7	10-30%
TOLUENE	C7-H8	108-88-3	10-30%
WHITE SPIRIT	Not Available	8052-41-3	10-30%
XYLENE	C8-H10	1330-20-7	10-30%
POLYURETHANE RESIN	Not Available	Not Available	10-30%



#### **CRC RED URETHANE Product Name**

# 4. FIRST AID MEASURES

Eye If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to

stop by a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Air-

line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue

flushing with water until advised to stop by a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor.

For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, Ingestion

do not induce vomiting. Ingestion is considered unlikely due to product form.

**Advice to Doctor** Treat symptomatically

First Aid Facilities Eye wash facilities should be available.

## 5. FIRE FIGHTING MEASURES

**Flammability** Highly flammable. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. Vapour

may form explosive mixtures with air. Eliminate all ignition sources, including cigarettes, open flames, spark producing switches/tools, heaters, pilot lights, mobile phones etc. when handling. Aerosol cans may explode

above 50°C

Fire and **Explosion**  Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing

Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

Dry agent, carbon dioxide or foam. Prevent contamination of drains or waterways. Extinguishing

**Hazchem Code** 2Y

# 6. ACCIDENTAL RELEASE MEASURES

**Spillage** 

If cans/containers are punctured (bulk), use personal protective equipment. Clear area of all unprotected personnel. Ventilate area where possible. Collect and allow to discharge outdoors. Contain spillage, then cover / absorb spill with non-combustible absorbant material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

## 7. STORAGE AND HANDLING

Storage

Store in a cool (< 50°C), dry, well ventilated area, removed from oxidising agents, acids, alkalis, heat or ignition sources and foodstuffs. Ensure aerosol containers/ cans are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for damaged/ leaking containers. Large storage areas should have appropriate fire protection systems.

Handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

# 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

#### **Exposure Stds**

In any odious	Defenses		TWA		STEL	
Ingredient	Reference	ppm	mg/m3	ppm	mg/m3	
LIQUEFIED PETROLEUM GAS (LPG)	ASCC (AUS)	1000	1800	1000	1800	
Toluene	ASCC (AUS)	50	191	150	574	
White spirits	ASCC (AUS)		790			
Xylene	ASCC (AUS)	80		150		

## **Biological Limits**

Ingredient	Reference	Determinant	Sampling Time	BEI
TOLUENE	ACGIH BEI	o-Cresol in urine	End of shift	0.5 mg/L
	ACGIH BEI	Hippuric acid in urine	End of shift	1.6 g/g creatinine
	ACGIH BEI	Toluene in blood	Prior to last shift of workweek	0.05 mg/L



Page 2 of 5

Reviewed: 01 Apr 2010

#### **CRC RED URETHANE Product Name**

Ingredient	Reference	Determinant	Sampling Time	BEI
XYLENE	ACGIH BEI	Methylhippuric acids in urine	End of shift	1.5 g/g creatinine

### **Engineering Controls**

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof extraction ventilation is recommended. Flammable vapours may accumulate in poorly ventilated or confined areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the recommended exposure standard.

**PPE** 

Wear splash-proof goggles and neoprene or nitrile gloves. At high vapour levels, wear: a Type A-Class P1 (Organic gases/vapours and Particulate) respirator.





# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	VISCOUS RED LIQUID (AEROSOL DISPENSED)	Solubility (Water)	INSOLUBLE
Odour	SOLVENT ODOUR	Specific Gravity	0.8 (Approximately)
рН	NOT AVAILABLE	% Volatiles	NOT AVAILABLE
Vapour Pressure	NOT AVAILABLE	Flammability	HIGHLY FLAMMABLE
Vapour Density	> 1 (Air = 1)	Flash Point	< 23°C
<b>Boiling Point</b>	110°C (Initial)	<b>Upper Explosion Limit</b>	7.0 % (Toluene)
Melting Point	NOT AVAILABLE	Lower Explosion Limit	1.3 % (Toluene)
Evaporation Rate	NOT AVAILABLE		

# 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under recommended conditions of storage.

**Conditions to Avoid** Avoid heat, sparks, open flames and other ignition sources.

**Material to Avoid** Incompatible with oxidising agents (eg. hypochlorites), acids (eg. nitric acid), alkalis (eg. hydroxides), heat

and ignition sources.

Decomposition May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.

**Hazardous Reactions** Polymerization is not expected to occur.

# 11. TOXICOLOGICAL INFORMATION

**Health Hazard** Summary

Moderate toxicity - irritant. This product has the potential to cause adverse health effects with over exposure. Use safe work practices to avoid eye or skin contact and inhalation. Over exposure may result in central nervous

system (CNS) effects.

Eye Irritant. Contact may result in irritation, lacrimation, pain and redness.

Inhalation Irritant. Over exposure may result in mucous membrane irritation of the respiratory tract, coughing, dizziness and

headache. High level exposure may result in nausea, loss of appetite, weakness, and drowsiness.

Skin Irritant. Contact may result in irritation, redness, rash and dermatitis.

Ingestion Moderate toxicity. Ingestion may result in nausea, vomiting, abdominal pain and drowsiness with large quantities.

Aspiration may result in chemical pneumonitis and pulmonary oedema. Ingestion is considered unlikely due to

product form.

**Toxicity Data TOLUENE (108-88-3)** 

LC50 (Inhalation): 400 ppm/24 hours (mouse) LCLo (Inhalation): 1600 ppm (guinea pig)

LD50 (Ingestion): 636 mg/kg (rat) LD50 (Skin): 14100 uL/kg (rabbit) LDLo (Ingestion): 50 mg/kg (human) TCLo (Inhalation): 50 ppm (man) TDLo (Ingestion): 400 mg/kg (rat)



Page 3 of 5 **RMT** 

Reviewed: 01 Apr 2010

# Product Name CRC RED URETHANE

WHITE SPIRIT (8052-41-3)

LCLo (Inhalation): 10 g/m3/2.5 hours (cat) LD50 (Ingestion): > 5000 mg/kg (rat)

TCLo (Inhalation): 600 mg/m3/8 hours (human)

XYLENE (1330-20-7)

Carcinogenicity: Not classifiable as to its carcinogenicity (IARC Group 3)

LC50 (Inhalation): 5000 ppm/4 hours (rat) LCLo (Inhalation): 10000 ppm/6 hours (man)

LD50 (Ingestion): 4300 mg/kg (rat)

LD50 (Intraperitoneal): 1548 mg/kg (mouse) LD50 (Skin): > 1700 mg/kg (rabbit)

LD50 (Subcutaneous): 1700 mg/kg (rat) LDLo (Ingestion): 50 mg/kg (human) LDLo (Intravenous): 129 mg/kg (rabbit)

TCLo (Inhalation): 200 ppm (human - eye, respiratory)

TDLo (Ingestion): 20600 ug/kg (6-15 days pregnant mouse - teratogenic)

# 12. ECOLOGICAL INFORMATION

#### **Environment**

If aromatic hydrocarbons are released to soil, they will evaporate from near-surface soil & leach to groundwater. Biodegradation occurs in soil & groundwater but may be slow, especially at high concentrations, which can be toxic to microorganisms. Will exist largely as vapour in air. Half life in atmosphere depends on particular hydrocarbon (eg 1-2 days (xylene); 3 hrs-1 day (toluene)).

### 13. DISPOSAL CONSIDERATIONS

Waste Disposal For small amounts absorb contents with sand or similar and dispose of to an approved landfill site. Do not

puncture or incinerate aerosol cans. Contact the manufacturer for additional information.

**Legislation** Dispose of in accordance with relevant local legislation.

### 14. TRANSPORT INFORMATION



# CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

Shipping Name AEROSOLS

UN No. 1950 DG Class 2.1 Subsidiary Risk(s) None Allocated

Packing Group None Allocated Hazchem Code 2Y EPG 2D1

### 15. REGULATORY INFORMATION

Poison Schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform

Scheduling of Drugs and Poisons (SUSDP).

AICS All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

# **16. OTHER INFORMATION**

# Additional Information

The urethane alkyd resin in this product is described as fully reacted urethane modified alkyd.

AEROSOL CANS may explode at temperatures approaching 50°C.

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

ABBREVIATIONS:

ADB - Air-Dry Basis.

BEI - Biological Exposure Indice(s)

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.



Page 4 of 5

RMT Reviewed: 01 Apr 2010

#### **CRC RED URETHANE Product Name**

EINECS - European INventory of Existing Commercial chemical Substances.

IARC - International Agency for Research on Cancer.

M - moles per litre, a unit of concentration.

mg/m3 - Milligrams per cubic metre.

NOS - Not Otherwise Specified.

NTP - National Toxicology Program.

OSHA - Occupational Safety and Health Administration.

pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

ppm - Parts Per Million.

RTECS - Registry of Toxic Effects of Chemical Substances.

TWA/ES - Time Weighted Average or Exposure Standard.

### **HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

#### PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

### **Report Status**

This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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Page 5 of 5 **RMT** 

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