



# MATERIAL SAFETY DATA SHEET

PRODUCT NAME **DRY GLIDE**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Supplier Name** CRC INDUSTRIES (AUST) PTY LIMITED  
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**Email** info@crcind.com.au  
**Web Site** http://www.crcind.com.au/  
**Synonym(s)** 3040 - PRODUCT CODE • CRC DRY GLIDE  
**Use(s)** DRY FILM LUBRICANT • LUBRICANT  
**MSDS Date** 01 January 2006

## 2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

### RISK PHRASES

R11 Highly flammable.  
R20 Harmful by inhalation.

### 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.

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

**UN No.** 1950      **DG Class** 2.1      **Subsidiary Risk(s)** None Allocated  
**Pkg Group** None Allocated      **Hazchem Code** 2Y      **EPG** 2D1

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.	Content
DIMETHYL ETHER	C2-H6-O	115-10-6	30-60%
ETHANOL	C2-H6-O	64-17-5	10-30%
METHYL ETHYL KETONE (MEK)	C4-H8-O	78-93-3	10-30%
TOLUENE	C7-H8	108-88-3	10-30%
4-HYDROXY-4-METHYL-2-PENTANONE	C6-H12-O2	123-42-2	<10%
ISOPROPYL ALCOHOL	C3-H8-O	67-63-0	<10%

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### 4. FIRST AID MEASURES

<b>Eye</b>	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poison Information Centre or a doctor, or for at least 15 minutes.
<b>Inhalation</b>	If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.
<b>Skin</b>	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 the Poisons Information Centre or a doctor.
<b>Ingestion</b>	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting. Ingestion is considered unlikely due to product form.
<b>Advice to Doctor</b>	Treat symptomatically

### 5. FIRE FIGHTING MEASURES

<b>Flammability</b>	Highly flammable aerosol. May evolve toxic gases (eg: carbon oxides, hydrocarbons) when heated to decomposition. Vapours may form explosive mixtures in air. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, pilot lights, heaters, naked lights, mobile phones etc. when handling. Aerosol cans may explode when heated above 50°C.
<b>Fire and Explosion</b>	Highly flammable - explosive vapour. Evacuate area & contact emergency services. Toxic gases (carbon oxides, hydrocarbons) may be evolved when heated. Remain upwind and notify those downwind of hazard. Wear full protective equipment (see spill above) including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
<b>Extinguishing</b>	Dry agent, carbon dioxide or foam. Prevent contamination of drains or waterways.
<b>Hazchem Code</b>	2Y

### 6. ACCIDENTAL RELEASE MEASURES

<b>Spillage</b>	If can is punctured, clear area of all unprotected personnel and ventilate area. Wear splash-proof goggles, neoprene/nitrile gloves, a Type A (Organic vapour) respirator (where an inhalation risk exists) and coveralls. Collect and allow to discharge outdoors. Absorb residues with sand or similar and place in clean containers for disposal.
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### 7. STORAGE AND HANDLING

<b>Storage</b>	Store in cool, dry, well ventilated area, out of direct sunlight and out of reach of children, removed from oxidising agents, acids and alkalis, direct sunlight, heat and ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Store below 50°C.
<b>Handling</b>	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	Ingredient	Reference	TWA		STEL	
			ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
	DIACETONE ALCOHOL	NOHSC (AUS)	50.0	238.0	75.0	360.0
	Dimethyl ether	NOHSC (AUS)	400.0	760.0	500.0	950.0
	Ethanol	NOHSC (AUS)	1000.0	1880.0	--	--
	Isopropyl alcohol	NOHSC (AUS)	400.0	983.0	500.0	1230.0
	Methyl ethyl ketone (MEK)	NOHSC (AUS)	150.0	445.0	300.0	890.0
	Toluene	NOHSC (AUS)	50.0	191.0	150.0	574.0

Biological Limits	Ingredient	Reference	Determinant	Sampling Time	BEI
	METHYL ETHYL KETONE (MEK)	ACGIH BEI	MEK in urine	End of shift	2 mg/L
	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

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Ingredient	Reference	Determinant	Sampling Time	BEI
	ACGIH BEI	Toluene in blood	Prior to last shift of workweek	0.05 mg/L

**Engineering Controls**

Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical explosion proof extraction ventilation is recommended. Flammable/explosive vapours may accumulate in poorly ventilated 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. Maintain vapour levels below the recommended exposure standard.

**PPE**

Wear splash-proof goggles and neoprene or nitrile gloves. When using large quantities or where heavy contamination is likely, wear coveralls. Where an inhalation risk exists, wear a Type A (Organic vapour) Respirator.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	OPAQUE WHITE LIQUID (AEROSOL DISPENSED)	<b>Solubility (water)</b>	SOLUBLE
<b>Odour</b>	ETHEREAL ODOUR	<b>Specific Gravity</b>	0.84
<b>pH</b>	NOT AVAILABLE	<b>% Volatiles</b>	95 %
<b>Vapour Pressure</b>	45 mm Hg @ 20°C	<b>Flammability</b>	HIGHLY FLAMMABLE
<b>Vapour Density</b>	> 1 (Air = 1)	<b>Flash Point</b>	< 30°C
<b>Boiling Point</b>	77°C (Initial)	<b>Upper Explosion Limit</b>	8.0 %
<b>Melting Point</b>	< 0°C	<b>Lower Explosion Limit</b>	1.0 %
<b>Evaporation Rate</b>	NOT AVAILABLE	<b>Autoignition Temperature</b>	NOT AVAILABLE

**10. STABILITY AND REACTIVITY**

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

**Conditions to Avoid** Avoid shock, friction, heavy impact, heat, sparks, open flames and other ignition sources.

**Material to Avoid** Incompatible with oxidising agents (eg. hypochlorites, peroxides), acids (eg. sulphuric acid), strong alkalis (eg. hydroxides), heat and ignition sources.

**Decomposition** May evolve toxic gases (eg: 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 vapour inhalation. Over exposure to methyl ethyl ketone in combination with certain other solvents (eg n-hexane) may cause peripheral nerve damage, with potential for long-term health effects. Chronic exposure to organic solvents may cause damage to the liver, kidney and central nervous system.

**Eye** Irritant. Contact may result in irritation, lacrimation, pain, redness, conjunctivitis. May result in burns with prolonged contact.

**Inhalation** Irritant. May cause irritation of the nose and throat, loss of appetite, nausea and vomiting. At high levels; breathing difficulties, dizziness, drowsiness, pulmonary oedema and unconsciousness. Chronic exposure may result in liver, kidney damage and CNS damage.

**Skin** Irritant. Contact may result in drying and defatting of the skin, rash and dermatitis. May be absorbed through skin with toxic effects.

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

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

### Toxicity Data

DIMETHYL ETHER (115-10-6)  
LC50 (Inhalation): 308 g/m<sup>3</sup> (rat)

ETHANOL (64-17-5)  
LC50 (Inhalation): 20000 ppm/10 hours (rat)  
LD50 (Ingestion): 3450 mg/kg (mouse)

METHYL ETHYL KETONE (MEK) (78-93-3)  
LC50 (Inhalation): 23500 mg/kg (rat)  
LD50 (Ingestion): 2737 mg/kg (rat)  
LD50 (Skin): 6480 mg/kg (rabbit)

TOLUENE (108-88-3)  
LC50 (Inhalation): 400 ppm/24 hours (mouse)  
LD50 (Ingestion): 636 mg/kg (rat)  
LD50 (Skin): 14100 uL/kg (rabbit)

4-HYDROXY-4-METHYL-2-PENTANONE (123-42-2)  
LD50 (Ingestion): 3950 mg/kg (mouse)  
LD50 (Skin): 13500 mg/kg (rabbit)

ISOPROPYL ALCOHOL (67-63-0)  
Carcinogenicity: Not classifiable as to its carcinogenicity (IARC Group 3)  
LC50 (Inhalation): 16000 ppm/8 hours 16000/8 hours (rat)  
LD50 (Ingestion): 3600 mg/kg (mouse)  
LD50 (Skin): 12,800 mg/kg (rabbit)

## 12. ECOLOGICAL INFORMATION

**Environment** Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.

## 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

<b>Shipping Name</b>	AEROSOLS				
<b>UN No.</b>	1950	<b>DG Class</b>	2.1	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Pkg Group</b>	None Allocated	<b>Hazchem Code</b>	2Y	<b>EPG</b>	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** WORK PRACTICES - SOLVENTS: Organic solvents may present both a health and flammability hazard. It is recommended that engineering controls should be adopted to reduce exposure where practicable (for example, if using indoors, ensure explosion proof extraction ventilation is available). Flammable or combustible liquids with explosive limits have the potential for ignition from static discharge. Refer to AS 1020 (The control of undesirable static electricity) and AS 1940 (The storage and handling of flammable and combustible liquids) for control procedures.

AEROSOL CANS may explode at temperatures approaching 50°C.

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**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.

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 Material Safety Data Sheet ('MSDS').

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 MSDS, 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 MSDS.

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**End of Report**