

# Material Safety Data Sheet

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Duromix™ ACS-2 Liquid

Issue Date: 1/7/2008

Revision Date: 1/7/2008

DISTRIBUTED IN AUSTRALIA BY:  
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Not classified as Hazardous according to criteria of ASCC<sup>1</sup> and not Dangerous Goods according to the ADG<sup>2</sup> Code

<b>UN NO.....:</b>	None allocated	<b>D.G. Class.:</b>	None allocated	<b>Pack. Group...:</b>	None allocated
<b>HAZCHEM:</b>	None allocated	<b>SUB. RISK.:</b>	None allocated	<b>SUSDP.....:</b>	None allocated

**PROPER SHIPPING NAME:** None allocated

**PRODUCT USE:** Coating binder.

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No	Weight %
Acrylic polymer	Proprietary	30-60
Water	-	30-60
Additives	Not required*	<5

\* Either not classified as hazardous or below relevant concentration cut-offs.  
 See Section 8, Exposure Controls / Personal Protection

## 3. HAZARDS IDENTIFICATION

None under normal conditions of use.

## 4. FIRST AID MEASURES

**Eyes:** Immediately flush with water for 15 minutes. Get medical attention if irritation persists.  
**Skin:** Wash contaminated area with soapy warm water. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse.  
**Inhalation:** Remove to fresh air. Apply resuscitation if victim is not breathing. Give oxygen if breathing is difficult. Get medical attention if required.

**Ingestion:** Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical attention. A decision to induce vomiting should only be made by a physician.

## 5. FIRE FIGHTING MEASURES

Flash Point ..... Not applicable  
 Auto-ignition Temperature ..... Not applicable  
 Lower Explosive Limit ..... Not applicable  
 Upper Explosive Limit ..... Not applicable

### **Suitable Extinguishing Media:**

Use extinguishing agents suitable for the surrounding fire.

### **Protective Equipment for Fire Fighting:**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### **Fire Fighting Procedures:**

Stay up-wind and fight fire from a safe distance. Prevent spillage from entering drains or watercourses.

### **Decomposition Products:**

Decomposes with fire to give off toxic and irritating fumes.

## 6. ACCIDENTAL RELEASE MEASURES

Contain spill. Do not allow into drains or waterways.

**Small Spills:** Take up with inert absorbent material (e.g. sand, dirt, or vermiculite). Fill into marked, sealable containers for disposal. Dispose of empty containers in accordance with federal, state and local laws.

**Large Spills:** Notify Emergency Services and advise nature of spill and material hazard. Isolate area.

## 7. HANDLING AND STORAGE

**Handling** – Avoid inhaling vapour and/or mists. Avoid contact with skin and eyes

**Storage** - Store away from direct sunlight. Protect from freezing.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Limit Information

Component	NOHSC <sup>1</sup>			
	TWA		STEL	
	(ppm)	(mg/m <sup>3</sup> )	(ppm)	(mg/m <sup>3</sup> )
Acrylic polymer	a	-	a	-

a = not listed

TWA = Time Weighted Average

STEL= Short term Exposure Limit

<sup>1</sup> National Occupational Health and Safety Commission (Australia)

### Respiratory Protection

In case of vapours or mist, a respiratory protection program meeting Australian and New Zealand Standards AS/NZS-1716 and AS/NZS -1715 requirements must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in "Exposure Limit Information"

### Eye Protection

Use chemical splash goggles (Australian and New Zealand Standards AS/NZS-1337) or approved equivalent. Eye protection worn must be compatible with respiratory protection system employed.

**Hand Protection**

Chemical resistant gloves and protective clothing as necessary to prevent skin contact.

**Engineering Controls (Ventilation)**

Use local exhaust ventilation sufficient to maintain exposure levels below exposure limit concentrations. Refer to Australian Standard AS-1668.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**


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Appearance and colour .....	Milky, white
State .....	Liquid
Odour Characteristic .....	Acrylic
pH .....	8-10
Viscosity .....	Not specified
Specific Gravity (Water = 1) .....	1.0 – 1.1
Vapour Density (Air = 1) .....	Not specified
Vapour Pressure .....	Not specified
Melting Point .....	~0 °C water
Boiling Point .....	~100 °C water
Solubility in Water .....	Dispersible
Flash Point .....	Not applicable

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**10. STABILITY AND REACTIVITY**


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Considered stable under normal conditions of use and handling.

**Hazardous decomposition products**

Oxides of carbon. Decomposition by heat may give off toxic and irritating fumes.

**Conditions to avoid**

Heat and freezing.

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**11. TOXICOLOGICAL INFORMATION**


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No data available for the product

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**12. ECOLOGICAL INFORMATION**


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Keep out of waterways, drains and sewers.

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**13. DISPOSAL CONSIDERATIONS**


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Dispose of empty containers in accordance with federal, state and local laws.

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**14. TRANSPORT INFORMATION**


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Not classified as Dangerous Goods according to the Australian Code For The Transport Of Dangerous Goods By Road And Rail (Seventh Edition). See Section 1.

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**15. REGULATORY INFORMATION**


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**Workplace Labelling Requirements:**

According to Criteria of the Australian Safety and Compensation Council: Not required

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## 16. OTHER INFORMATION

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<sup>1</sup> Australian Safety and Compensation Council

<sup>2</sup> Australian Dangerous Goods Code – Seventh Edition

The advice and information contained herein is based on raw material supplier's information. Durotech Industries believe the information to be accurate and reliable as at the date supplied, but no representation, guarantee or warranty, expressed or implied, is made to the accuracy, reliability, or completeness of the advice and information. Durotech Industries urges persons receiving this advice and information to make their own determination as to the advice and information's suitability and completeness for their own particular situation.

T000708

# Material Safety Data Sheet

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### Duromix™ ACS-2 Powder

Issue Date: 5/8/2008

Revision Date: 5/8/2008

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Classified as **Hazardous** according to criteria of ASCC<sup>1</sup> and not Dangerous Goods according to the ADG<sup>2</sup> Code

UN NO.....:	None allocated	D.G. Class.:	None allocated	Pack. Group...:	None allocated
HAZCHEM:	None allocated	SUB. RISK.:	None allocated	SUSDP.....:	None allocated

**PROPER SHIPPING NAME:** None allocated

**PRODUCT USE:** Coating component.

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No	Weight %
Cement (containing Portland cement, hexavalent chromium, crystalline silica)	Mixture	30-60
Sand (containing crystalline silica/quartz)	14808-60-7	30-60

See Section 8, Exposure Controls / Personal Protection

## 3. HAZARDS IDENTIFICATION

**Risk of serious eye damage.**

**Irritating to respiratory system and skin.**

**May cause sensitisation by skin contact.**

**Harmful: danger of serious damage to health by prolonged exposure through inhalation.**

## 4. FIRST AID MEASURES

**Eyes:** Immediately flush with water for 15 minutes. Get medical attention.

**Skin:** Wash contaminated area with soapy warm water. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

**Inhalation:** Remove to fresh air. Apply resuscitation if victim is not breathing. Give oxygen if breathing

is difficult. Get medical attention if required.  
**Ingestion:** Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical attention. A decision to induce vomiting should only be made by medical personnel.

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## 5. FIRE FIGHTING MEASURES

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Flash Point ..... Not applicable  
 Auto-ignition Temperature ..... Not applicable  
 Lower Explosive Limit ..... Not applicable  
 Upper Explosive Limit ..... Not applicable

### Suitable Extinguishing Media:

Use extinguishing agents suitable for the surrounding fire.

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## 6. ACCIDENTAL RELEASE MEASURES

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Wear suitable protective clothing, gloves and dust respirator. Contain spill. Do not allow into drains or waterways.

**Small Spills:** Take up mechanically and fill into marked, sealable containers for disposal. Dispose of empty containers in accordance with federal, state and local laws.

**Large Spills:** Notify Emergency Services and advise nature of spill and material hazard. Isolate area.

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## 7. HANDLING AND STORAGE

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**Handling** – Avoid inhaling dust. Avoid contact with skin and eyes. Wear suitable protective equipment.

**Storage** – **Keep dry.** Store away from acids.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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### Exposure Limit Information

Component	NOHSC <sup>1</sup>			
	TWA		STEL	
	(ppm)	(mg/m <sup>3</sup> )	(ppm)	(mg/m <sup>3</sup> )
Portland cement	a	-	a	-
Crystalline silica (quartz)	-	0.1b	-	-
Chromium (VI) compounds (as Cr), certain water insoluble (h)	-	0.05cd	-	-

a = not listed

b = as respirable dust

c = sensitiser

d = category I carcinogen

TWA = Time Weighted Average

STEL= Short term Exposure Limit

<sup>1</sup> National Occupational Health and Safety Commission (Australia)

### Respiratory Protection

In case of dust, a respiratory protection program meeting Australian and New Zealand Standards AS/NZS-1716 and AS/NZS -1715 requirements must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in "Exposure Limit Information"

### Eye Protection

Use chemical splash goggles (Australian and New Zealand Standards AS/NZS-1337) or approved equivalent. Eye protection worn must be compatible with respiratory protection system

employed.

### **Hand Protection**

Chemical resistant gloves and protective clothing as necessary to prevent skin contact.

### **Engineering Controls (Ventilation)**

Use local exhaust ventilation sufficient to maintain exposure levels below exposure limit concentrations. Refer to Australian Standard AS-1668.

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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Appearance and colour .....	Off white
State .....	Powder
Odour Characteristic .....	Cement
pH .....	11+ when mixed with water
Viscosity .....	Not applicable
Specific Gravity (Water = 1) .....	2-3
Vapour Density (Air = 1) .....	Not applicable
Vapour Pressure .....	Not applicable
Melting Point .....	Not applicable
Boiling Point .....	Not applicable
Solubility in Water .....	Some component soluble salts
Flash Point .....	Not applicable

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## **10. STABILITY AND REACTIVITY**

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Considered stable under normal conditions of use and handling.

### **Materials to avoid**

Incompatible with oxidising agents (eg hypochlorites), ethanol, acids (eg hydrofluoric acid) and interhalogens (eg chlorine trifluoride).

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## **11. TOXICOLOGICAL INFORMATION**

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### **Acute Toxicity:**

#### **Eye:**

Severe irritant upon contact with powder/ dust. Over exposure may result in pain, redness, corneal burns and ulceration with possible permanent damage.

#### **Inhalation:**

Irritating. Over exposure may result in severe mucous membrane irritation & bronchitis.

#### **Skin:**

Irritating. Prolonged and repeated contact with powder or wetted form may result in skin rash, dermatitis and sensitisation.

**Ingestion** Slightly corrosive. Ingestion may result in burns to the mouth and throat, with vomiting and abdominal pain. Due to product form, ingestion is not considered a likely exposure route.

### **Chronic Health Effects:**

Repeated inhalation of dust containing crystalline silica can cause bronchitis, silicosis (scarring of the lung) and may increase the risk of other serious disorders including scleroderma (a disease affecting the connective tissue of the skin, joints, blood vessels and internal organs). The International Agency for Research on Cancer (IARC) has classified Chromium VI (hexavalent) and Crystalline Silica inhaled in the form of quartz or cristobalite from occupational sources, as carcinogenic to humans (Group 1).

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## **12. ECOLOGICAL INFORMATION**

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Keep out of waterways, drains and sewers.

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## 13. DISPOSAL CONSIDERATIONS

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Dispose of empty containers in accordance with federal, state and local laws.

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## 14. TRANSPORT INFORMATION

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Not classified as Dangerous Goods according to the Australian Code For The Transport Of Dangerous Goods By Road And Rail (Seventh Edition). See Section 1.

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## 15. REGULATORY INFORMATION

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### Workplace Labelling Requirements:

According to Criteria of the Australian Safety and Compensation Council:

### Risk Phrases:

- R41 Risk of serious eye damage.
- R37/38 Irritating to respiratory system and skin.
- R43 May cause sensitisation by skin contact.
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

### Safety Phrases:

- S22 Do not breathe dust.
- S24/25 Avoid contact with skin and eyes.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S27 Take off immediately all contaminated clothing.
- S28 After contact with skin, wash immediately with plenty of soap and water.
- S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- S38 In case of insufficient ventilation, wear suitable respiratory equipment.
- S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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## 16. OTHER INFORMATION

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<sup>1</sup> Australian Safety and Compensation Council

<sup>2</sup> Australian Dangerous Goods Code – Seventh Edition

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