

# MATERIAL SAFETY DATA SHEET

According to NOHSC: 2011 (2003)

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: **CONGRESIVE 1375 PART B**

Other name: None allocated

Product code: 50640906

Recommended use: Part B of a two-component, solvent-less, low viscosity epoxy resin for pressure injection grouting.

Supplier: BASF Construction Chemicals Australia Pty Ltd. BASF New Zealand Ltd.  
ABN 46 000 450 288

Address: 11 Stanton Road, 45 William Pickering Drive,  
Seven Hills, NSW, 2147 Albany, Auckland,  
Australia New Zealand

Telephone number: +61 2 8811 4200 +64 9 414 7233

Facsimile: +61 2 8811 3299 +64 9 414 7244

Emergency telephone number: 0417 658 263

## 2. HAZARDS IDENTIFICATION

Hazard classification: HAZARDOUS SUBSTANCE. DANGEROUS GOODS  
Hazardous substance according to the criteria of NOHSC  
Dangerous goods for transport according to the ADG code  
Harmful if swallowed. Causes burns. May cause sensitization by skin contact.

Hazard Designation: C: Corrosive; Xn: Harmful; Xi: Irritant

Risk phrase(s): R21/22; R34; R43

Safety phrase(s): S24/25; S26; S28; S36/37/39

For full descriptions of R and S phrases, see Section 15.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Characterisation:** Hardener for concrete injection resins based on amines

<b><u>Chemical Name</u></b>	<b><u>CAS Number</u></b>	<b><u>Proportion</u></b>
Trimethylhexamethylene diamine (Xn;R22 C;R34 R43)	25620-58-0	30 - 60%
Hexamethylenediamine (C;R34 Xn;R21/22 Xi;R37)	124-09-4	10 - 30%
Non hazardous ingredients		to 100%

All ingredients listed on AICS.

## 4. FIRST AID MEASURES

Inhalation: Use in well ventilated areas. If inhalation does occur, remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration. Seek medical attention.

Eyes: While holding eyes open, gently flood with plenty of fresh water for 15 minutes. Seek medical attention. Skilled personnel should only undertake removal of contact lenses after an eye injury.

# MATERIAL SAFETY DATA SHEET

According to NOHSC: 2011 (2003)

Skin: Remove contaminated clothing. Remove excess from skin mechanically. Wash contacted areas thoroughly with soap and water. If irritation develops seek medical attention. Wash contaminated clothing before re-use.

Ingestion: Not a normal route of injury. Do not induce vomiting; give large quantities of water; get immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquids into lungs. Do NOT give anything by mouth to an unconscious person.

## 5. FIRE FIGHTING MEASURES

Suitable extinguishing media: As for surrounding fire. Water spray, fog or mist. Foam. Powder

Hazards from combustion products: Carbon dioxide (CO<sub>2</sub>) Carbon monoxide (CO) Nitrous oxides (NO<sub>x</sub>).

Precautions/equipment for fire fighters: As for surrounding fire.

Hazchem code: 3X

## 6. ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and clean up: Spills should be contained by bunding and absorbing with dry inert filler (vermiculite, sand or soil). Once absorbed this can be collected and removed mechanically by shovelling into appropriately labelled containers. Disposal should be effected by an approved waste disposal organisation according to local regulations.

Environmental precautions: Do not allow to enter into drains, sewers or waterways. Prevent absorption into subsoils.

## 7. HANDLING AND STORAGE

Precautions for safe handling: Wear personal protective equipment (PPE) as per Section 8.  
Provide for good ventilation. Avoid spilling material. Avoid inhalation of vapours. Avoid skin and eye contact.

Conditions for safe storage: Keep away from heat, sparks and open flame. Keep containers tightly closed; store only in original containers under cool dry well ventilated conditions. Keep out of reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Ensure adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particles below the OEL (Occupational Exposure Limit), suitable respiratory protection must be worn.

Exposure Standards None available.

Personal Protective Equipment (PPE):

Respiratory protection: If ventilation inadequate use a dual cartridge respirator suitable for amine vapours or air fed respirator.

Glove type (AS2161): Impervious gloves e.g. PVC or butyl rubber.

Eye protection: Chemical worker's goggles, well fitting safety glasses or full face shield.

Clothing: No special clothing required but overalls or other suitable industrial clothing which provides full skin coverage are suggested as a general precaution, especially where heavy contamination is likely.

# MATERIAL SAFETY DATA SHEET

According to NOHSC: 2011 (2003)

Other: Use barrier creams to protect skin from contact with the material. Do not eat drink or smoke while working with the material. Always wash hands before smoking, eating, drinking or using the toilet and after finishing work. Observe the usual precautions when handling chemicals.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellowish-brown, viscous liquid.  
Odour: Ammonia  
pH: Alkaline  
Specific gravity: 0.980 (25°C)  
Viscosity: 198 mPa.s (25°C)  
Solubility in water: Insoluble  
Boiling point: > 200 °C  
Flash point: > 100 °C DIN 51758  
Decomposition Temperature: > 200 °C

## 10. STABILITY AND REACTIVITY

Chemical stability: Normally stable when stored in original sealed containers in cool dry conditions. Not sensitive to mechanical impact.  
Incompatible materials: Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers.  
Hazardous decomposition products: High temperatures generate: toxic gases/vapours/fumes of; carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO) Nitrous Oxides (NO<sub>x</sub>)

## 11. TOXICOLOGICAL INFORMATION

Health Hazard Summary: Susceptible individuals may develop allergic reactions such as dermatitis or asthma like symptoms on a single significant skin exposure or may become sensitised to the material on repeated contact. Corrosive to eyes and skin. May cause sensitisation by skin contact or inhalation.  
Inhalation: Harmful by inhalation. Irritant to the respiratory tract.  
Eyes: Irritating to eyes, causes burns.  
Skin contact: Irritating to skin, causes burns. May develop sensitisation through skin contact.  
Ingestion: Harmful if swallowed. [Oral, rat LD<sub>50</sub>: 500 – 600 mg/kg]

## 12. ECOLOGICAL INFORMATION

Ecology: Do not discharge into drains, sewers or waterways. Prevent absorption into subsoils.  
Not readily biodegradable.

## 13. DISPOSAL CONSIDERATIONS

Disposal method and containers: Ensure containers are sealed. Avoid mist generation. Dispose of to an approved land fill site. Refer to Waste Management Authority.  
Special precautions for landfill or incineration: None known

**14. TRANSPORT INFORMATION**

<u>UN number:</u>	2735
<u>UN proper shipping name:</u>	AMINES, LIQUID, CORROSIVE, NOS (Contains TRIMETHYLHEXAMETHYLENE DIAMINE)
<u>Dangerous goods class:</u>	8 corrosive substances
<u>Subsidiary risk:</u>	None allocated.
<u>EPG card:</u>	8A1
<u>Packing group:</u>	III
<u>Hazchem code:</u>	3X
<u>Poisons schedule:</u>	None allocated.

**15. REGULATORY INFORMATION**

<u>Hazard Designation</u>	C	Corrosive
	Xn	Harmful
<u>Risk phrase(s):</u>	R21/22	Harmful in contact with skin and if swallowed.
	R34	Causes burns
	R37	Irritating to respiratory system
	R43	May cause sensitisation by skin contact
<u>Safety phrase(s):</u>	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.
	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.
	S60	This material and its container must be disposed of as hazardous waste

**16. OTHER INFORMATION**

Reason for issue: Update health and safety data. New product code due to change of company to BASF and BASF system. Based on BASF CC UK MSDS No. SDS0206; Rev 2: Sept. 2006.

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. All information contained in this MSDS is as accurate and up-to-date as possible. No warranty expressed or implied is made as to its accuracy, reliability or completeness.