



## MATERIAL SAFETY DATA SHEET

### CEMSWIFT MT

#### 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

**Product Name** : Cemswift MT  
**Recommended Use** : Accelerator in concrete or cementitious systems.  
**Supplier** : Ability Building Chemicals Company  
**ACN** : 007 247 289  
**Address** : 124 Northern Rd, West Heidelberg, Victoria 3081.  
**Telephone** : 61 3 9457 6488  
**Facsimile** : 61 3 9458 4683  
**Emergency Contact** : 61 3 9457 6488

#### 2. HAZARDS IDENTIFICATION

##### HAZARDOUS SUBSTANCE; DANGEROUS GOOD

**Hazard Category** : Toxic; Corrosive  
**Risk Phrases** : R25, R34  
**Safety Phrases** : S1/2, S20/21, S22, S36/37  
**Class** : 8  
**Subsidiary Risk** : 5.1/ 6.1  
**Packing Group** : III  
**Poison Schedule** : 5

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Identity</u>	<u>CAS No</u>	<u>Proportion</u>	<u>Hazard</u>
Sodium Nitrite	7632-00-0	40%	T
Sodium Metasilicate	6834-92-0	40%	C

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### **4. FIRST AID**

- Ingestion** : If swallowed and patient is conscious, wash out mouth thoroughly with water. DO NOT induce vomiting.  
DO NOT give anything by mouth to unconscious patient.  
Seek immediate medical attention.
- Eye** : Immediately flush with fresh water for at least 15 minutes.  
Ensure adequate flushing by separating eyelids with fingers.  
Seek immediate medical attention.
- Skin** : Wash thoroughly with soapy water. Remove contaminated clothing and footwear and wash before reuse or storage.  
Seek medical attention if irritation or discomfort occurs.
- Inhalation** : Move immediately to fresh air and if necessary apply artificial respiration. If breathing difficulty give oxygen.  
Seek medical advice.
- First Aid Facilities** : Eyewash and safety shower should be available in workplace.
- Advice to Doctor** : Treat symptomatically.

Poison Information centers in each State capital city can provide additional assistance for scheduled poisons. (Phone Australia 131 126)

### **5. FIRE FIGHTING MEASURES**

- Fire/explosion hazard**: Product itself is not flammable but oxidizing action may assist surrounding combustion.
- Fire Fighting advice** : Ensure use of SCBA units and full protective equipment to avoid contact with dust or fumes.
- Extinguishing Media**: Water spray, dry chemical, carbon dioxide or appropriate foam according to surrounding fire.
- Decomposition Products**: Combustion products may include dust, oxides of nitrogen and sodium oxide vapours.

### **6. ACCIDENTAL RELEASE MEASURES**

- Spills and disposal** : Ensure protective overalls, gloves and safety goggles are worn by cleanup personnel. Approved respirators if needed.  
Contain spillage and avoid entry into drains and waterways.  
Carefully sweep spillage together to allow collection.  
Avoid raising dust.  
Collect spillage into appropriately labeled containers for storage awaiting reuse or disposal via the local waste facility as per required legislation.  
Thoroughly wash the area with water to complete.

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### 7. HANDLING AND TRANSPORT

**Safe Handling Information** : Product is hygroscopic hence ensure all containers are sealed when not in use.  
Store in a cool, dry and well ventilated area.  
Product is an oxidizer, do not store near combustibles.  
Product is classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by Road and Rail and therefore must be transported and stored According to this code.

**Precautions for Use** : Only to be used as per recommended use.

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Standards** : No specific airborne exposure standard set for this product but we recommend a TLV =  $10 \text{ mg/m}^3$  as for a nuisance dust.

**Engineering Controls**: Ensure effective ventilation (exhaust and/or natural) at the workplace is adequate to avoid dust in the immediate vicinity.  
Avoid light metal and its alloys/galvanized material.

**Personal Protection** : Wear full overalls, gloves and safety goggles when handling the product. Avoid skin and eye contact as well as inhalation.  
If dust potential then use of respirator (as per AS1716) is recommended.

Always wash hands before eating, drinking, smoking or using the toilet.

Wash any contaminated clothing or protective equipment before reuse or storage.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Off white powder.  
**Specific Gravity** : No data  
**Bulk Density** :  $1000 \text{ kg/m}^3$  approx.  
**Vapour Pressure** : Not applicable  
**pH, 1% aqueous** :  $> 11$   
**Boiling Point** : Not applicable  
**Melting Point** : No data  
**Solubility** : Mainly soluble in water.  
**Flash Point** : Not applicable  
**Flammability Limits** : Not flammable

### 10. STABILITY

**Stability / Polymerisation**: Stable under normal storage conditions.

**Incompatible materials and conditions** : Reducing agents, acids, combustible materials, ammonia cyanates, fluorine, aluminium, tin and zinc.

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### 11. Toxicological Information

No adverse health effects are expected if the product is handled in accordance with this Safety Data Sheet and the product label.

Symptoms that may arise if the product is mishandled are –

#### Acute Effects:

- Ingestion** : C; R25 Corrosive material and toxic if swallowed.  
May cause burns to mouth and burns to gastro intestinal tract. Severe abdominal pain and vomiting may also occur.  
High levels may effect blood capability to carry oxygen resulting in headache, fatigue, dizziness and blue colouration of lips and skin.  
May cause breathing difficulties, collapse and even death.
- Eye** : Corrosive and likely to cause severe pain and burns to the cornea possibly resulting in blindness.
- Skin** : Corrosive and may cause burns to the skin, with prolonged or repeated contact resulting in dermatitis.
- Inhalation** : If dust inhaled, may cause irritation to the throat and respiratory tract resulting in coughing and shortness of breath.  
Also refer to toxic effects as per ingestion due to skin absorption.

**Chronic Effects:** No specific information.

#### Toxicology:

- Sodium Nitrite - Oral LD50 (Rat) = 180 mg/kg  
Sodium Metasilicate - Oral LD50 = 1150 – 1350 mg/kg  
Toxic effects caused by alkalinity and substance specific systemic effects not by corrosive nature of product.  
- Skin (Human) = 250 mg/24hr – Severe.

### 12. ECOLOGICAL INFORMATION

**Environmental Fate** : R50 - Avoid contaminating waterways as product considered very toxic to aquatic organisms..

**Aquatic Toxicity** : No data available.

**Terrestrial Toxicity** : No data available.

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### 13. DISPOSAL CONSIDERATIONS

Dispose of the product as per local regulations.

Ensure containers are effectively cleared of product and disposed of according to local authority requirements.

### 14. TRANSPORT INFORMATION

Is classified as a Dangerous Good by the Criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

**UN Number** : 3084

**Proper Shipping Name** : Corrosive solid, oxidizing (Sodium metasilicate/  
Sodium nitrite)

**Class** : 8

**Subsidiary Risk** : 5.1/6.1

**Packing Group** : III

**Hazchem Code** : 2X

**Segregation Dangerous Goods:** Material is incompatible in a placard load with –  
Explosives (Class 1)  
Flammable Gases (Class 2.1)  
Toxic Gases (Class 2.3)  
Flammable Liquids (Class 3)  
Flammable Solids (Class 4.1)  
Spontaneously combustible substances (Class 4.2)  
Dangerous When Wet Materials (Class 4.3)  
Organic Peroxides (Class 5.2)  
Toxic Substances (Class 6) – Fire risk substances or  
Cyanates.  
Radioactive Substance (Class 7)  
Corrosive substance (Class 8) – Strong acids.  
Any food or food packaging.

### 15. REGULATORY INFORMATION

**Poison Schedule** : 5.

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### **16. OTHER INFORMATION**

**Date of Preparation** : 27 November 2004  
**Date of Revision (No)** : Not applicable  
**Reason for Issue** : New MSDS

This data sheet and health, safety and environmental information it contains has been prepared by Chemsultation Pty Ltd according to current regulatory requirements as at date of issue. The precautions and advice provided may not be accurate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and comply with all applicable legislation. No statement made in this data sheet shall be construed as permission, a recommendation or authorisation given or implied to practice any patented invention without a valid licence. No company named in this document shall be responsible for any damage or injury resulting from abnormal use of the material from any failure to adhere to recommendations, or from hazards inherent in the nature of the material.

**Contact** : **Chemsultation Pty Ltd**  
**Phone** 61 3 54263763  
**Facsimile** 61 3 54263773

**End of MSDS**