



# CHALLENGE CHEMICALS AUST.

ABN: 68 059 129 568



## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE MATERIAL AND THE SUPPLIER

**Product Name:** CMC

**Recommended use:** Cleaning coffee dispensing equipment

**Supplier:** Challenge Chemicals Australia  
**ABN:** 68 059 129 568  
**Street Address:** 6 Butcher Street  
KWINANA  
PERTH W.A. 6167

**Telephone:** (08) 9419 5577  
**Facsimile:** (08) 9419 4958

**Emergency Telephone number:** (08) 9419 5577 (7.00am to 4.30pm)  
0418 923 266

### 2. HAZARDS IDENTIFICATION

Hazardous according to criteria of NOHSC.

**Hazard Category** Irritant (Xi)

**R-phrases(s)** R36/37/38

**S-phrases(s)** S2  
S22  
S24/25  
S26

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Appearance:** Fine white powder.

CHEMICAL ENTITY	CAS NO.	PROPORTION (% weight per weight)
Sodium Carbonate	497-19-8	20
Sodium Percarbonate	15630-89-4	20
Sodium Metasilicate	10213-79-3	10

All other ingredients determined  
to be non-hazardous.

All the constituents of this materials are listed on the Australian Inventory of Chemical  
Substances (AICS).

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*Hazard Classification: Non Dangerous Goods, Hazardous Irritant (Xi)*

*Class: Not applicable*

*Subclass: Not applicable*

*Poisons Schedule: S5*

## 4. FIRST AID MEASURES

*Poison Information Centres in each State capital city can provide additional assistance for scheduled poisons. Ring 13 11 26.*

**Ingestion:** *Immediately rinse mouth with water. Give water to drink. Do NOT induce vomiting. If vomiting occurs, place victim's face downwards, head lower than hips to prevent vomit entering lungs. Seek immediate medical assistance.*

**Eye Contact:** *Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Seek medical assistance.*

**Skin Contact:** *Immediately wash contaminated skin with plenty of water. For gross contamination, immediately drench with water and remove clothing. Remove contaminated clothing and wash before re-use. If swelling, redness, blistering, or irritation occurs seek medical advice.*

**Inhalation:** *Remove victim from exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered.*

**Notes to physician:** *Treat symptomatically based on judgment of doctor and individual reaction of the patient.*

## 5. FIRE-FIGHTING MEASURES

**Specific Hazards:** *Oxidising substance which can be decomposed by water, heat, catalysts etc. Decomposition releases oxygen and heat which can support combustion and cause pressure bursts in container in confined spaces.*

**Fire fighting further advice:** *Not combustible. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.*

**Suitable extinguishing media:** *Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).*

## 6. ACCIDENTAL RELEASE MEASURES

*Collect and seal in properly labeled containers for disposal. If contamination of sewers or waterways has occurred advise the local emergency services.*

## 7. HANDLING AND STORAGE

**Storage:** *Keep containers dry and sealed at all times.*

**Handling:** *Always wash hands after handling prior to eating, drinking, smoking or going to the toilet.*

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **National occupational exposure limits.**

No value assigned for this specific material by the National Occupational Health and Safety Commission (Worksafe Australia) but the following should be considered, ACGIH TLV – TWA for nuisance dust = 10 mgm<sup>3</sup> total dust or  
= 5 mgm respirable dust

*This exposure standard is a guide to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. Exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.*

**Engineering Measures:** Ensure adequate ventilation to maintain exposure levels below standards.

**Personal Protection Equipment:** Wear rubber gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

*Form / Colour / Odour: Fine white powder.*

*Specific Gravity: Not determined  
Rel Vapour Density: Not applicable  
Vapour Pressure: Not applicable  
Flash Point: Not applicable  
Flammability Limits: Not applicable  
Autoignition Temp (C): Not applicable  
% Volatile by Volume: Not applicable  
Solubility in Water: 100%*

*Melting Point (C): Not determined  
Boiling Point (C): Not determined  
Decomp. Point (C): Not determined  
Sublimation Point: Not determined  
pH: (1% solution) 12.0-12.5  
Viscosity: Not applicable  
Evaporation Rate: Not applicable*

## 10. STABILITY AND REACTIVITY

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

**Compatibility:** Incompatible with acids, bases, salts of metals, reducing agents, organic materials and flammable substances.

## 11. TOXICOLOGICAL INFORMATION

**Main Symptoms:** No adverse health effects 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**

**Ingestion:** Swallowing may result in nausea, vomiting, diarrhoea and abdominal pain and may cause burns to mucous membranes of the throat, esophagus and stomach.

**Eye Contact:** An eye irritant. Contamination of the eyes may result in permanent injury as contact can cause corneal burns.

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**Skin Contact:** Contact with skin may result in irritation. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

**Inhalation:** Inhalation of dusts will result in respiratory irritation.

**Chronic Long Term Effects:**

Chronic effects are unlikely apart from repeated skin contact, which may lead to dermatitis.

**Toxicity Data:**

No data available for CMC.

For Sodium Carbonate a major component Oral LD<sub>50</sub> = 2463 mg/kg (RAT)

For Sodium Percarbonate Oral LD<sub>50</sub> = 1900-3000 mg/kg (RAT)

Inhalation LC<sub>50</sub> 4.58 mg/l (RAT)

For Sodium Metasilicate – Oral LD<sub>50</sub> = 1500 – 3200 mg/kg (RAT)

## 12. ECOLOGICAL INFORMATION

No data available for CMC. CMC is alkaline and will raise pH at point of entry.

Avoid contaminating waterways.

## 13. DISPOSAL CONSIDERATIONS

Normally suitable for disposal at approved land waste site.

## 14. TRANSPORT INFORMATION

Not Classified as Dangerous Goods for the purpose of transport by road or rail.

## 15. REGULATORY INFORMATION

Hazardous according to criteria of Worksafe Australia.

Hazard Category      **Irritant (Xi)**

R-phrases)      **R36/37/38** Irritating to eyes, respiratory system and skin

S-phrases)      **S2**      Keep out of the reach of children.

**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.

Poisons Schedule (AUST) Toxic Substance (NZ): S5

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## 16. OTHER INFORMATION

Literary Reference: 1. M.S.D.S – Sodium Carbonate – Redox – August 2007  
2. M.S.D.S – Sodium Percarbonate – Redox – May 2009  
3. M.S.D.S – Disodium Trioxosilicate – Redox – June 2007

*This MSDS summarises at the date of issue or best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Challenge Chemicals Australia and its subsidiaries cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.*

*If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.*

*Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.*

END OF M.S.D.S