



MATERIAL SAFETY DATA SHEET

in accordance with 91/155/EEC

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Name: CMS-2000 Injectable Sealing Compound

Date of Preparation: 4 March 2004

MSDS No. 1090I-3

Not classified as hazardous according to criteria of Worksafe Australia.

Company:

A.W. CHESTERTON COMPANY
225 Fallon Road
Stoneham, MA 02180-2999, USA
Tel.: 781-438-7000
(Mon. - Fri. 8:30 - 5:00 PM EST)

Supplier:

For Chemical Emergency:

24 hours per day, 7 days per week

Call Infotrac: 1-800-535-5053

Outside N. America: +1 352-323-3500 (collect)

Use: This new asbestos-free sealing product from Chesterton® is a high quality pump sealant which offers virtually zero leakage. It is an excellent replacement sealant on pumps with worn or pitted shafts since its malleability allows it to conform to all irregularities on shaft and stuffing box.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients [†]	% Wt.	CAS No.	EC No.	Symbol	R-phrases
Chlorinated Paraffin	5-10	68920-70-7	272-924-4	—	—
Graphite	25-35	7782-42-5	231-955-3	—	—
Talc	5-10	14807-96-6	238-877-9	—	—

3. HAZARDS IDENTIFICATION

It is nontoxic at ambient temperatures. When heated to temperatures above 260°C (500°F), perfluorocarbon resins begin to give off vapors that may cause temporary flu-like symptoms if inhaled. Thermal decomposition leads to the formation of oxidized products containing carbon, fluorine and oxygen. The ACGIH states that no exposure limit is recommended pending determination of the toxicity of the products, but air concentration should be minimal. Likewise, when using this product avoid smoking for the same reason.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, administer artificial respiration. Contact physician.
Skin Contact: Wash skin with soap and water. Contact physician if irritation persists.
Eye Contact: Flush eyes for at least 15 minutes with large amounts of water. Contact physician if irritation persists.
Ingestion: not applicable
Advice to Physician: Treat symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing Methods: Carbon Dioxide, dry chemical or foam
Unusual Fire and Explosion Hazards: Thermal decomposition can form Hydrogen Chloride and other toxic fumes.
Special Fire Fighting Measures: Recommend Firefighters wear self-contained breathing apparatus. Thermal decomposition can form Hydrogen Chloride and other toxic fumes.
Flammability Classification: -
HAZCHEM Emergency Action Code: 3 **2**

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contamination of tobacco products. Utilize exposure controls and personal protection as specified in Section 8.
Environmental Precautions: No special requirements.
Methods of Clean Up: Scoop up and transfer to a suitable container for disposal.

7. HANDLING AND STORAGE

Handling: Avoid contamination of tobacco products. Wash before eating, drinking or smoking.
Storage: Store in a cool, dry area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous Ingredients	OSHA		ACGIH TLV		AUSTRALIA	
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Chlorinated Paraffin	-	-	-	-	-	-
Graphite	15 mppcf	-	(resp)	2	(resp)	3
Talc	20 mppcf	2	(resp)	2	(resp)	2.5

Respiratory Protection: Not normally needed.
Ventilation: No special requirements. If using under extreme heat, use local exhaust.
Protective Gloves: Impervious gloves. Cotton gloves have been recommended.
Eye Protection: Safety glasses
Other: Do not smoke while using the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	putty, thick compound mix	Odour	mild
Colour	black	Vapour pressure @ 20°C	none
Initial boiling point	not applicable	% Aromatics by weight	none
Melting point	not applicable	pH	not applicable
% Volatile (by volume)	none	Density	1,4 kg/l
Flash point	not applicable	Weight per volume	12.3lbs/gal.
Method	–	Coefficient (water/oil)	not applicable
Viscosity	not determined	Vapour density (air=1)	> 1
Autoignition temp.	not applicable	Rate of evaporation (ether=1)	< 1
Explosion limits	not applicable	Solubility in water	insoluble
		Other	none

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous Polymerization:	Will not occur.
Hazardous Decomposition Products:	Hydrogen Chloride and other toxic fumes and at temperatures above 260°C (500°F) perfluorocarbon resin fumes.
Conditions to Avoid:	Extreme heat above 260°C (500°F).
Materials to Avoid:	Strong oxidizers like liquid Chlorine and concentrated Oxygen.

11. TOXICOLOGICAL INFORMATION

Primary Route of Exposure Under Normal Use:	Inhalation, skin and eye contact.
Acute Effects:	Mild transient skin and eye irritant. When heated, vapors may cause nausea, dizziness, irritation of the respiratory tract and watering eyes.
Chronic Effects:	Prolonged or repeated contact may cause acne, irritation or allergic reaction in sensitive individuals. Prolonged, excessive inhalation of Graphite dust has caused emphysema and pneumoconiosis. Repeated or prolonged inhalation of Talc dust may cause chronic cough, shortness of breath, scarring of the lungs (pulmonary fibrosis) and mild symptomatic pneumoconiosis.
Other Information:	As per 29 CFR 1910.1200 (Hazard Communication), this product contains no carcinogens as listed in the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or the Occupational Safety and Health Administration (OSHA).

12. ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. The information given below is based on a knowledge of the components and the ecotoxicology of similar substances.

Mobility:	Solid. Insoluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9).
Degradability:	Graphite, Talc: exists in nature.
Accumulation:	not determined
Ecotoxicity:	not determined

13. DISPOSAL CONSIDERATIONS

Landfill material with a properly licensed facility. Check local, state and national/federal regulations and comply with the most stringent requirement.

EWC-code: 12 01 05

14. TRANSPORT INFORMATION

<p>TDG: NONHAZARDOUS, NOT REGULATED</p> <p>IMDG: NONHAZARDOUS, NOT REGULATED</p> <p>IATA/ICAO: NONHAZARDOUS, NOT REGULATED</p> <p>ADR/RID: NONHAZARDOUS, NOT REGULATED</p>	<p>U.S. DOT : Shipping Name: NONHAZARDOUS Hazard Class: NOT REGULATED UN/NA # : NOT APPLICABLE Packaging Group # NOT APPLICABLE Emergency Response Guide Book No. - NOT APPLICABLE</p>
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15. REGULATORY INFORMATION

European Classification:[†]	none
R-Phrase(s):	–
S-Phrase(s):	–
Name of the substances on the label:	–
Other labelling information:	Contains 2-Butanone oxime. May produce an allergic reaction.
Canadian Classification:[†]	D2B: Toxic materials causing other effects; D2A: Very toxic materials causing other effects
Risk Phrase(s):	Prolonged, excessive inhalation of Graphite dust has caused emphysema and pneumoconiosis. Repeated or prolonged inhalation of Talc dust may cause chronic cough, shortness of breath, scarring of the lungs (pulmonary fibrosis) and mild symptomatic pneumoconiosis.
Precautionary and First Aid Measure(s):	Avoid excessive creation and inhalation of dust during removal, drilling, grinding, cutting or sanding. If affected by inhalation of dust, move to fresh air. Contact physician immediately.
Other labelling information:	none

16. OTHER INFORMATION

US EPA SARA TITLE III	Hazardous Materials Identification System (HMIS)								
<p>312 Hazards : 313 Chemicals :</p> <p>Immediate None</p>	<p>4 = Severe Hazard 3 = Serious Hazard 2 = Moderate Hazard 1 = Slight Hazard 0 = Minimal Hazard * = See Section 8</p> <table border="1" style="float: right;"> <tr><td>HEALTH</td><td align="center">1</td></tr> <tr><td>FLAMMABILITY</td><td align="center">1</td></tr> <tr><td>REACTIVITY</td><td align="center">1</td></tr> <tr><td>Personal Protection</td><td align="center">*</td></tr> </table>	HEALTH	1	FLAMMABILITY	1	REACTIVITY	1	Personal Protection	*
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FLAMMABILITY	1								
REACTIVITY	1								
Personal Protection	*								

JAPAN PRTR	Class I Chemicals :	Class II Chemicals :
	none	none

Risk phrases in section 2: none

Changes to the MSDS in this revision: sections 1, 2, 7, 8, 9, 11, 12, 13, 15, 16.

This information is based solely on data provided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied regarding the accuracy of the data or the suitability of the product for the user's particular purpose. The user must make their own determination as to suitability.