



## MATERIAL SAFETY DATA SHEET

in accordance with 1907/2006/EC

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

**Product Name:** Product 459

**Date:** 4 March 2008

**MSDS No.** 1097-2

Not classified as hazardous according to criteria of Worksafe Australia.

**Company:**

A.W. CHESTERTON COMPANY  
860 Salem Street  
Groveland, MA 01834-1507, USA  
Tel.: +1 978-469-6446 Fax: +1 978-469-6785  
(Mon. - Fri. 8:30 - 5:00 PM EST)  
E-mail (MSDS questions): ProductMSDSs@chesterton.com  
MSDS requests: www.chesterton.com

**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:** Laminated Graphite sheet with a Nickel insert. This material is designed for use in high temperature, high pressure, flange applications. It can be used up to 454°C (850°F) in an oxidizing atmosphere and 870°C (1600°F) in a non-oxidizing atmosphere.

### 2. HAZARDS IDENTIFICATION

None expected in industrial use.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients <sup>1</sup>	% Wt.	CAS No.	EC No.	Symbol	R-phrases
This product is not classified as a "hazardous material" in normal use as defined in:					
* 29 CFR 1910.1200, 1915, 1916, 1917					
* Massachusetts Right-To-Know Law, Chapter 40, Acts and Resolves of 1983 (M.G.L. O. 111F).					
* Controlled Products Regulations (Canada)					
* European Council Directive 67/548/EEC and 99/45/EC					
* Worksafe Australia {(NOHSC: 1008 (2004))}					

**4. FIRST AID MEASURES**

**Inhalation:** not applicable

**Skin Contact:** Wash skin with soap and water. Contact physician if irritation persists.

**Eye Contact:** not applicable

**Ingestion:** not applicable

**Advice to Physician:** Treat symptoms.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing Methods:** Carbon Dioxide, dry chemical, water or foam

**Unusual Fire and Explosion Hazards:** none

**Special Fire Fighting Measures:** Recommend Firefighters wear self-contained breathing apparatus.

**Flammability Classification:** not determined

**HAZCHEM Emergency Action Code:** 3 **Z**

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Utilize exposure controls and personal protection as specified in Section 8.

**Environmental Precautions:** none

**Methods of Clean Up:** No special steps required. Nontoxic.

**7. HANDLING AND STORAGE**

**Handling:** Utilize exposure controls and personal protection as specified in Section 8.

**Storage:** Store in a dark, cool, dry area.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Hazardous Ingredients	OSHA		ACGIH TLV		AUSTRALIA	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
none						

**Respiratory Protection:** not applicable

**Ventilation:** not applicable

**Protective Gloves:** Not normally needed.

**Eye Protection:** Safety glasses

**Other:** none

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state</b>	solid	<b>Odour</b>	odorless
<b>Colour</b>	black	<b>Vapour pressure @ 20°C</b>	not applicable
<b>Initial boiling point</b>	not applicable	<b>% Aromatics by weight</b>	not applicable
<b>Melting point</b>	not applicable	<b>pH</b>	not applicable
<b>% Volatile (by volume)</b>	not applicable	<b>Density</b>	not applicable
<b>Flash point</b>	not applicable	<b>Weight per volume</b>	not applicable
<b>Method</b>	not applicable	<b>Coefficient (water/oil)</b>	not applicable
<b>Viscosity</b>	not applicable	<b>Vapour density (air=1)</b>	not applicable
<b>Autoignition temp.</b>	not applicable	<b>Rate of evaporation (ether=1)</b>	not applicable
<b>Explosion limits</b>	not applicable	<b>Solubility in water</b>	insoluble
		<b>Other</b>	none

**10. STABILITY AND REACTIVITY**

<b>Stability:</b>	Stable
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Hazardous Decomposition Products:</b>	Carbon Monoxide, Carbon Dioxide and other toxic fumes.
<b>Conditions to Avoid:</b>	Open flames and red hot surfaces.
<b>Materials to Avoid:</b>	Fluorine, aqua regia, oleum, fuming Nitric Acid and Hydrochloric Acid and Hydrofluoric Acid when used as a positive electrode.

**11. TOXICOLOGICAL INFORMATION**

<b>Primary Route of Exposure Under Normal Use:</b>	skin contact
<b>Acute Effects:</b>	none
<b>Chronic Effects:</b>	none
<b>Other Information:</b>	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.

<b>Mobility:</b>	Solid. Insoluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9).
<b>Degradability:</b>	Graphite, Nickel: inorganic substances, exist in nature.
<b>Accumulation:</b>	not determined
<b>Ecotoxicity:</b>	not determined

**13. DISPOSAL CONSIDERATIONS**

Check local, state and national/federal regulations and comply with the most stringent requirement.

**EWC-code:** 20 01 40

**14. TRANSPORT INFORMATION**

**TDG:** NONHAZARDOUS, NOT REGULATED  
**IMDG:** NONHAZARDOUS, NOT REGULATED  
**IATA/ICAO:** NONHAZARDOUS, NOT REGULATED  
**ADR/RID:** NONHAZARDOUS, NOT REGULATED

**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

**15. REGULATORY INFORMATION**

**European Classification<sup>1</sup>:** none  
**R-Phrase(s):** —  
**S-Phrase(s):** —  
**Name of the substances on the label:** none  
**Other information:** none

**Canadian Classification<sup>1</sup>:** none  
**Risk Phrase(s):** —  
**Precautionary and First Aid Measure(s):** —  
**Other Information:** none

**16. OTHER INFORMATION****US EPA SARA TITLE III**

**312 Hazards :**      **313 Chemicals :**  
 None                      None

**Hazardous Materials Identification System (HMIS)**

4 = Severe Hazard  
 3 = Serious Hazard  
 2 = Moderate Hazard  
 1 = Slight Hazard  
 0 = Minimal Hazard  
 \* = See Section 8

<b>HEALTH</b>	<b>0</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>REACTIVITY</b>	<b>1</b>
<b>Personal Protection</b>	<b>*</b>

**JAPAN PRTR****Class I Chemicals :****Class II Chemicals :****Risk phrases in section 3:**

**Changes to the MSDS in this revision:** sections 1, 3, 7, 10, 12, 13, 16; updated to new format.

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.