MATERIAL SAFETY DATA SHEET

in accordance with 1907/2006/EC

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

Product Name: AWC 100 – Polyimide Filled PTFE

Date: 4 September 2007 **MSDS No.** 6019-1

Not classified as hazardous according to criteria of Worksafe Australia.

Company:	**Supplier:**
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 (questions): ProductMSDSs@chesterton.com MSDS requests: www.chesterton.com	

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: PTFE compound, operating temperatures from -50ºC (-60ºF) through 180ºC (365ºF). Material compatible with most petroleum based lubricants, water mixtures and most synthetic fluids.

2. HAZARDS IDENTIFICATION

None expected in industrial use. PTFE is nonhazardous at ambient temperatures. At temperatures above 260°C (500°F), toxic decomposition products may be emitted. Due to toxic decomposition, avoid smoking (wash hands to avoid transfer to tobacco products) when handling PTFE products.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients[1]	**% Wt.**	**CAS No.**	**EC No.**	**Symbol**	**R-phrases**

This product is not classified as a "hazardous material" in normal use as defined in:

*European Council Directive 67/548/EEC and 99/45/EC
*Worksafe Australia [NOHSC: 1008 (2004)]
*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

[1]Classified according to:
* 29 CFR 1910.1200, 1915, 1916, 1917
* Mass. Right-to-Know Law (ch. 40, M.G.L..O. 111F)
* Controlled Products Regulations
* 67/548/EEC (2004/73/EC) and 99/45/EC
* Worksafe Australia [NOHSC: 1008 (2004)]

4. FIRST AID MEASURES

Inhalation: If overcome by decomposition fumes, remove to fresh air. If not breathing, administer artificial respiration. Contact physician immediately.

Skin Contact: not applicable

Eye Contact: not applicable

Ingestion: not applicable

Advice to Physician: Treat symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing Methods: Use extinguisher appropriate to surrounding fire.

Unusual Fire and Explosion Hazards: Toxic fumes may be emitted at temperatures above 260°C (500°F). Product will burn in an atmosphere of > 95% oxygen, when an ignition source is present.

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

Flammability Classification: –

HAZCHEM Emergency Action Code: not applicable

6. ACCIDENTAL RELEASE MEASURES

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

Environmental Precautions: No special requirements.

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

7. HANDLING AND STORAGE

Handling: Do not smoke when handling PTFE products; wash hands after handling to avoid transfer to tobacco products.

Storage: Store in 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
none						

Respiratory Protection: not applicable

Ventilation: No special requirements. If using under extreme heat, use local exhaust.

Protective Gloves: not applicable

Eye Protection: not applicable

Other: none

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	solid	**Odour**	odorless
Colour	tan	**Vapour pressure @ 20°C**	not applicable
Initial boiling point	not applicable	**% Aromatics by weight**	none
Melting point	not applicable	**pH**	not applicable
% Volatile (by volume)	0	**Density**	not applicable
Flash point	not applicable	**Weight per volume**	not applicable
Method	none	**Coefficient (water/oil)**	not applicable
Viscosity	not applicable	**Vapour density (air=1)**	not applicable
Autoignition temp.	not applicable	**Rate of evaporation (ether=1)**	not applicable
Explosion limits	not applicable	**Solubility in water**	insoluble
		Other	none

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide, trace amounts of Hydrogen fluoride, Perfluorocarbon olefins, and other toxic fumes may be evolved above 260°C (500°F).

Conditions to Avoid: Extreme heat above 260°C (500°F).

Materials to Avoid: Fluorine, Chlorine Trifluoride and related compounds and molten alkali metals.

11. TOXICOLOGICAL INFORMATION

Primary Route of Exposure Under Normal Use: Inhalation (PTFE decomposition fumes).

Acute Effects: PTFE is nontoxic at ambient temperatures. However, small quantities of toxic gases may be produced at temperatures above 260°C (500°F), due to PTFE decomposition. Inhalation of these decomposition products may cause temporary flu-like symptoms.

Chronic Effects: none

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: PTFE: nonbiodegradable

Accumulation: not determined

Ecotoxicity: PTFE: nontoxic

13. DISPOSAL CONSIDERATIONS

Unused product is not a regulated waste. Check local, state and national/federal regulations and comply with the most stringent requirement.

EWC-code: 07 02 13

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[1]: none

R-Phrase(s): –

S-Phrase(s): –

Name of the substances on the label: none

Other information: none

Canadian Classification[1]: none

Risk Phrase(s): –

Precautionary and First Aid Measure(s): –

Other Information: none

16. OTHER INFORMATION

US EPA SARA TITLE III

312 Hazards : none

313 Chemicals : none

Hazardous Materials Identification System (HMIS)

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

HEALTH	**0**
FLAMMABILITY	**0**
REACTIVITY	**1**
Personal Protection	*****

JAPAN PRTR

Class I Chemicals : none

Class II Chemicals : none

Risk phrases in section 3: none

Changes to the MSDS in this revision: sections 1, 5, 13; 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.