



MATERIAL SAFETY DATA SHEET

in accordance with 1907/2006/EC

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

Product Name: 660 Silicone Lubricant (Refillable Pressurized Container)

Revision: 6 May 2009

Date of issue: 23 May 2008

MSDS No.: 170RA-4

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
 E-mail: customer.service@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: Synthetic Base Lubricant. General purpose, continuous film lubricant for mechanical parts and sliding surfaces constructed of plastic, rubber or metal.

2. HAZARDS IDENTIFICATION

Highly flammable. Contents under pressure. Vapours may cause drowsiness and dizziness. Repeated exposure may cause skin dryness or cracking. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients ¹	% Wt.	CAS No.	EC No.	Symbol	R-phrases
Naphtha (Petroleum), Light Alkylate**	*	64741-66-8	265-068-8	F, Xn, N	11-51/53-65-66-67
Compressed Air	*	-	-	-	-

See section 15 for text of risk phrases on the label and section 16 for others. *Dependent on the amount of material in the container. **Contains less than 0.1 % w/w Benzene.

4. FIRST AID MEASURES						
Inhalation:	Remove to fresh air. If not breathing, administer artificial respiration. Contact physician immediately.					
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:	Do not induce vomiting. If conscious, drink large quantities of water. Contact physician immediately.					
Advice to Physician:	Treat symptoms.					
5. FIRE-FIGHTING MEASURES						
Extinguishing Methods:	Carbon Dioxide, dry chemical or foam					
Unusual Fire and Explosion Hazards:	Pressurized containers, when heated, are a potential explosive hazard.					
Special Fire Fighting Measures:	Cool exposed containers with water. Recommend Firefighters wear self-contained breathing apparatus.					
Flammability Classification:	-					
HAZCHEM Emergency Action	3 Y					
6. ACCIDENTAL RELEASE MEASURES						
Personal Precautions:	Evacuate area. Provide adequate ventilation. Utilize exposure controls and personal protection as specified in Section 8.					
Environmental Precautions:	Keep out of sewers, streams and waterways.					
Methods of Clean Up:	Contain spill to a small area. Keep away from sources of ignition - No smoking. If removal of ignition sources is not possible, then flush material away with water. Pick up with absorbent material (sand, sawdust, clay, etc.) and place in a suitable container for disposal.					
7. HANDLING AND STORAGE						
Handling:	Always depressurize sprayer before removing any parts. Vapors are heavier than air and will collect in low areas. Vapor accumulations could flash and/or explode if ignited. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No Smoking.					
Storage:	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C (120°F). Do not pierce or burn, even after use.					
8. EXPOSURE CONTROLS / PERSONAL PROTECTION						
Hazardous Ingredients	OSHA		ACGIH TLV		AUSTRALIA	
	ppm	mg/m³	ppm	mg/m³	ppm	mg/m³
Naphtha (Petroleum), Light Alkylate*	-	-	-	-	-	-
Compressed Air	-	-	-	-	-	-
*Chesterton recommended limit: 281 ppm (1400 mg/m ³)						
Respiratory Protection:	Not normally needed. If exposure limits are exceeded, use approved organic vapor respirator.					
Ventilation:	Use only in well-ventilated areas. If exposure limits are exceeded, provide adequate ventilation.					
Protective Gloves:	Chemical resistant gloves (e.g. neoprene, nitrile).					
Eye Protection:	Safety goggles or glasses.					
Other:	Impervious clothing as necessary for repetitive, prolonged skin contact.					

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid	Odour	mild odor
Colour	clear	Vapour pressure @ 20°C	not determined
Initial boiling point	116°C (240°F), product only	% Aromatics by weight	0%
Melting point	not determined	pH	not applicable
% Volatile (by volume)	93%, product only	Density	0,7 kg/l, product only
Flash point	< 7°C (< 45°F)	Weight per volume	6.15 lbs/gal., product only
Method	Tag Closed Cup, product only	Coefficient (water/oil)	< 1
Viscosity	not determined	Vapour density (air=1)	> 1
Autoignition temp.	not determined	Rate of evaporation (ether=1)	< 1
Explosion limits	not determined	Solubility in water	insoluble
		Other	none

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous Polymerization:	Will not occur.
Hazardous Decomposition Products:	Carbon Monoxide, aldehydes, oxides of Silicon and other toxic fumes.
Conditions to Avoid:	Open flames and red hot surfaces.
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. Personnel with pre-existing dermatitis are generally aggravated by exposure.

Acute Effects: Direct eye contact may cause eye irritation. Inhalation of vapor concentrations in excess of 1000 ppm will cause eye and respiratory tract irritation, dizziness, headache and other central nervous system effects.

Substance	Test	Result
Naphtha (Petroleum), Light Alkylate	LC50 inhalation, rat	> 5.04 mg/l/4 hours
Naphtha (Petroleum), Light Alkylate	LD50 dermal, rabbit	> 2000 mg/kg
Naphtha (Petroleum), Light Alkylate	LD50 oral, rat	> 7000 mg/kg

Chronic Effects: Prolonged or repeated skin contact may defat the skin and cause skin irritation.

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:** Liquid. Insoluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). The hazardous ingredients will rapidly evaporate to the air if released into the environment.
- Degradability:** Naphtha (Petroleum), Light Alkylate: may biodegrade; can degrade in air.
- Accumulation:** not determined
- Ecotoxicity:** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Refillable container which is not expected to be disposed. If necessary, incinerate pressurized or sealed containers at an approved facility. Check local, state and national/federal regulations and comply with the most stringent requirement.

EWC-code: 15 01 10

14. TRANSPORT INFORMATION

<p>TDG: Does not apply. Packaged and used at one location without transport.</p> <p>IMDG: Does not apply. Packaged and used at one location without transport.</p> <p>IATA/ICAO: Does not apply. Packaged and used at one location without transport.</p> <p>ADR/RID: Does not apply. Packaged and used at one location without transport.</p>	<p>U.S. DOT : Does not apply. Packaged and used at one location without transport.</p>
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15. REGULATORY INFORMATION

- European Classification¹:** F - Highly flammable; N - Dangerous for the environment
- R-Phrase(s):**
 - R11 Highly flammable.
 - R67 Vapours may cause drowsiness and dizziness.
 - R66 Repeated exposure may cause skin dryness or cracking.
 - R51/53* Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S-Phrase(s):**
 - S16 Keep away from sources of ignition - No smoking.
 - S23 Do not breathe gas/fumes/vapour/spray.
 - S24 Avoid contact with skin.
 - S51 Use only in well-ventilated areas.
 - S61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- Name of the substances on the label:** none
- Other information:** Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C (120°F). Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Always depressurize sprayer before removing any parts.

Canadian Classification¹:	A: Compressed gases; B5: Flammable aerosols
Risk Phrase(s):	Highly flammable. Vapours may cause drowsiness and dizziness. Repeated exposure may cause skin dryness or cracking. Direct eye contact may cause eye irritation.
Precautionary and First Aid Measure(s):	Keep away from sources of ignition - No smoking. Do not breathe vapour/spray. Avoid contact with skin. Wear eye protection. Use only in well-ventilated areas. If affected by vapor, move to fresh air. In case of contact with eyes, rinse with plenty of water and seek medical advice. After contact with skin, wash with soap and water.
Other Information:	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C (120°F). Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Always depressurize sprayer before removing any parts.

16. OTHER INFORMATION

US EPA SARA TITLE III	Hazardous Materials Identification System (HMIS)								
312 Hazards : 313 Chemicals : Immediate none Fire Pressure Release	4 = Severe Hazard 3 = Serious Hazard 2 = Moderate Hazard 1 = Slight Hazard 0 = Minimal Hazard * = See Section 8								
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HEALTH	1								
FLAMMABILITY	3								
REACTIVITY	1								
Personal Protection	*								

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

Risk phrases in section 3:	R11: Highly flammable. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65: Harmful: may cause lung damage if swallowed. R66: Repeated exposure may cause skin dryness or cracking. R67: Vapours may cause drowsiness and dizziness.
Changes to the MSDS in this revision:	sections 1, 3, 8, 15, 16.
	*R65: not applicable according to criteria (aerosol).

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 suitability of the product for the user's particular purpose. The user must make their own determination as to suitability.