

SAFETY DATA SHEET

in accordance with REACH (1907/2006/EC, as amended by 2020/878/EU) and Safe Work Australia

Revision date: 11 April 2023 **Date of previous issue:** 15 December 2022 **SDS No.** 152B-24

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

860 Moldable Polymer Gasketing (Cartridge)

Unique Formula Identifier (UFI): Not available

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Solid gap filler. Makes any size, any shape gasket. Never sticks.

Uses advised against: No data available

Reason why uses advised against: Not applicable

1.3. Details of the supplier of the safety data sheet

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)
SDS requests: www.chesterton.com
E-mail (SDS questions): ProductSDSs@chesterton.com
E-mail: customer.service@chesterton.com

Supplier:

EU: Chesterton International GmbH, Am Lenzenfleck 23,
D85737 Ismaning, Germany – Tel. +49-89-996-5460

1.4. Emergency telephone number

24 hours per day, 7 days per week
Call Infotrac: 1-800-535-5053
Outside N. America: +1 352-323-3500 (collect)
NSW Poisons Information Centre (Australia): 13 11 26

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP] / Safe Work Australia

Hazardous to the aquatic environment, Chronic, Category 2, H411

2.1.2. Additional information

For full text of H-statements: see SECTIONS 2.2 and 16. The safety and health hazards are detailed separately by part. The final cured material is considered nonhazardous.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP] / Safe Work Australia

Hazard pictograms:



Signal word:

None

Hazard statements:

H411

Toxic to aquatic life with long lasting effects.

Precautionary statements:

P273
P391
P501

Avoid release to the environment.

Collect spillage.

Dispose of contents/container to an approved waste disposal plant.

Supplemental information:

None

2.3. Other hazards

PBT/vPvB substances in accordance with Annex XIII of REACH: Octamethylcyclotetrasiloxane.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures**

Hazardous Ingredients ¹	% Wt.	CAS No./ EC No.	REACH Reg. No.	CLP/GHS Classification	SCL, M-factor, ATE
Zinc oxide	7 - 13	1314-13-2 215-222-5	NA	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE (oral): > 5,000 mg/kg ATE (dermal): > 5,000 mg/kg ATE (inhalation, dust): > 5.7 mg/l M-factor acute/chronic: 1
Ethyl polysilicate	1 - 5	68412-37-3 * 270-184-7	NA	Flam. Liq. 3, H226 Eye Irrit. 2, H319	ATE (oral): > 2,000 mg/kg ATE (dermal): > 4,450 mg/kg
Octamethylcyclotetrasiloxane	< 0.4	556-67-2 209-136-7	NA	Flam. Liq. 3, H226 Repr. 2, H361f Aquatic Chronic 1, H410	ATE (oral): > 2,000 mg/kg ATE (dermal): > 4,640 mg/kg ATE (inhalation, mist): 36 mg/l
Other ingredients:					
Calcium carbonate	20 - 30	1317-65-3 215-279-6	NA	Not classified **	ATE (oral): 6,450 mg/kg
Silica (Quartz)	0.1 - 0.2	14808-60-7 238-878-4	NA	Not classified **	NA

*Alternative CAS No. 11099-06-2, EC No. 234-324-0.

**Substance with a workplace exposure limit.

For full text of H-statements: see SECTION 16.

¹ Classified according to: 1272/2008/EC, REACH, Safe Work Australia, GHS

SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures**

Inhalation: Remove to fresh air. If not breathing, administer artificial respiration. Contact physician.

Skin contact: Remove uncured product from skin and wash 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: If person is conscious, rinse mouth with water and give small quantities of water to drink. Do not induce vomiting without medical advice. Consult physician.

Protection of first-aiders: Avoid contact with the product while providing aid to the victim. See section 8.2.2 for recommendations on personal protective equipment.

4.2. Most important symptoms and effects, both acute and delayed

May cause mild irritation to skin, eyes and respiratory tract.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms.

SECTION 5: FIREFIGHTING MEASURES**5.1. Extinguishing media**

Suitable extinguishing media: Carbon dioxide, foam or dry chemical

Unsuitable extinguishing media: Water jets

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon Monoxide, Carbon Dioxide and other toxic fumes.

Other hazards: None

5.3. Advice for firefighters

Recommend Firefighters wear self-contained breathing apparatus.

Australian HAZCHEM Emergency Action Code: 3 Z

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

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

6.2. Environmental Precautions

Keep out of sewers, streams and waterways.

6.3. Methods and material for containment and cleaning up

Scoop up and transfer to a suitable container for disposal.

6.4. Reference to other sections

Refer to section 13 for disposal advice.

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry area.

7.3. Specific end use(s)

No special precautions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters****Occupational exposure limit values**

Ingredients	ACGIH TLV ¹		UK WEL ²		AUSTRALIA ES ³	
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Zinc oxide	N/A	2 (resp.) STEL: 10 (resp.)	N/A	N/A	N/A	10 (inhal.)
Ethyl polysilicate	N/A	N/A	N/A	N/A	N/A	N/A
Octamethylcyclotetrasiloxane *	N/A	N/A	N/A	N/A	N/A	N/A
Calcium carbonate	N/A	10 ** (inhal.) 3 (resp.)	N/A	10 (inhal.) 4 (resp.)	N/A	10
Silica (Quartz)	(resp.)	0.025	(resp.)	0.1	(resp.)	0.05

* Chesterton recommended limit (OARS): 10 ppm

** Particles Not Otherwise Specified (PNOS)

¹ American Conference of Governmental Industrial Hygienists threshold limit values

² EH40 Workplace exposure limits, Health & Safety Executive

³ Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants

Biological limit values

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL) according to Regulation (EC) No 1907/2006:**Workers Workers**

Substance Substance	Route of exposure Route of exposure	Potential health effects Potential health effects	DNEL DNEL
Zinc oxide	Inhalation	Chronic effects, local	0.5 mg/m ³
		Chronic effects, systemic	5 mg/m ³
Octamethylcyclotetrasiloxane	Inhalation	Chronic effects, local	73 mg/m ³
		Chronic effects, systemic	73 mg/m ³

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No 1907/2006: Predicted No Effect Concentration (PNEC) according to Regulation (EC) No 1907/2006:

Not available

8.2. Exposure controls**8.2.1. Engineering measures**

No special requirements.

8.2.2. Individual protection measures**Respiratory protection:** Not normally needed.**Protective gloves:** Rubber or vinyl-coated gloves**Eye and face protection:** Recommend safety glasses.**Other:** None**8.2.3. Environmental exposure controls**

Refer to sections 6 and 12.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Physical state	paste	pH	not applicable
Colour	white	Kinematic viscosity	not determined
Odour	sweet odor	Solubility in water	insoluble
Odour threshold	not determined	Partition coefficient n-octanol/water (log value)	not applicable
Boiling point or range	not applicable	Vapour pressure @ 20°C	not determined
Melting point/freezing point	not applicable	Density and/or relative density	1.30 kg/l
% Volatile (by volume)	0%	Vapour density (air=1)	> 1
Flammability	no data available	Rate of evaporation (ether=1)	< 1
Lower/upper flammability or explosion limits	not determined	% Aromatics by weight	0%
Flash point	195°C (383°F)	Particle characteristics	not applicable
Method	ASTM D3828	Explosive properties	not determined
Autoignition temperature	not determined	Oxidising properties	not applicable
Decomposition temperature	not determined		

9.2. Other information

None

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

Refer to sections 10.3 and 10.5.

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

No dangerous reactions known under conditions of normal use.

10.4. Conditions to avoid

Moisture and excessive heat. Generates Formaldehyde at 150°C (300°F).

10.5. Incompatible materials

Acids and strong oxidizers like liquid Chlorine and concentrated Oxygen; ammonium salts.

10.6. Hazardous decomposition products

Oxides of Silicone, Carbon Monoxide, Carbon Dioxide and other toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Primary route of exposure under normal use: Inhalation, skin and eye contact.

Acute toxicity -

Oral: Based on available data on components, the classification criteria are not met.

Substance	Test	Result
Calcium carbonate	LC50, rat	6,450 mg/kg
Zinc oxide	LD50, rat	> 5,000 mg/kg
Ethyl polysilicate	LD50, rat	> 2,000 mg/kg
Octamethylcyclotetrasiloxane	LD50, rat	> 2,000 mg/kg

Dermal:

Substance	Test	Result
Ethyl polysilicate	LD50, rat	> 4,450 mg/kg
Zinc oxide	LD50, rabbit	> 5,000 mg/kg
Octamethylcyclotetrasiloxane	LD50, rabbit	> 4,640 mg/kg

Inhalation:

Substance	Test	Result
Zinc oxide	LC50, rat	> 5.7 mg/l (dust)
Octamethylcyclotetrasiloxane	LC50, rat	36 mg/l (mist)

Skin corrosion/irritation:

Substance	Test	Result
Calcium carbonate	Skin irritation, rabbit	Not irritating
Zinc oxide	Skin irritation, rabbit (OECD 404)	Not irritating

Serious eye damage/irritation:

Substance	Test	Result
Ethyl polysilicate	Eye irritation, human, 3,000 ppm	Severe irritation
Zinc oxide	Eye irritation, rabbit (OECD 405)	Not irritating

Respiratory or skin sensitisation:

Substance	Test	Result
Zinc oxide	Skin sensitization, rabbit	Not irritating

Germ cell mutagenicity:

Zinc oxide, Octamethylcyclotetrasiloxane: based on available data, the classification criteria are not met.

Carcinogenicity:

The International Agency for Research on Cancer (IARC) has classified inhaled silica as a human carcinogen. The silica in this product does not separate from the mixture or in of itself become air-borne, therefore it does not present a hazard in normal use.

Reproductive toxicity:

Octamethylcyclotetrasiloxane has caused impaired fertility in animal inhalation studies. Zinc oxide: based on available data, the classification criteria are not met.

STOT – single exposure:

Zinc oxide: based on available data, the classification criteria are not met.

STOT – repeated exposure:

Repeated inhalation of respirable free silica may cause scarring of the lungs with cough and shortness of breath. Silicosis, a delayed lung injury that is a disabling, progressive and sometimes fatal pulmonary fibrosis, may result. The silica in this product does not separate from the mixture or in of itself become air-borne, therefore it does not present a hazard in normal use.

Aspiration hazard:

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

None known

SECTION 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.

12.1. Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Zinc oxide: chronic NOEC, algae, 72 hours = 0.017 mg/l; 72 h EC50 (for algae) = 0.042 mg/l. Octamethylcyclotetrasiloxane: chronic NOEC, 93 days, fish = 0.0044 mg/l.

12.2. Persistence and degradability

Ethyl polysilicate: not readily biodegradable. Zinc oxide, Calcium carbonate, Silica: inorganic substances. Ethyl polysilicate: hydrolyzes in water or moist air, releasing ethanol. Octamethylcyclotetrasiloxane, biodegradation, 29 days, OECD 301: 3.7%.

12.3. Bioaccumulative potential

Calcium carbonate, Zinc oxide: not expected to bioaccumulate. Octamethylcyclotetrasiloxane, bioconcentration factor (BCF): 12,400.

12.4. Mobility in soil

Paste. Insoluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9).

12.5. Results of PBT and vPvB assessment

Not available

12.6. Endocrine disrupting properties

None known

12.7. Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Incinerate with a properly licensed facility. Check local, state and national/federal regulations and comply with the most stringent requirement. This product is classified as a hazardous waste according to 2008/98/EC.

SECTION 14: TRANSPORT INFORMATION**14.1. UN number or ID number**

ADR/RID/ADN/IMDG/ICAO:	UN3077
TDG:	UN3077
US DOT:	UN3077

14.2. UN proper shipping name

ADR/RID/ADN/IMDG/ICAO:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)
TDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)
US DOT:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)

14.3. Transport hazard class(es)

ADR/RID/ADN/IMDG/ICAO:	9
TDG:	9
US DOT:	9

14.4. Packing group

ADR/RID/ADN/IMDG/ICAO:	III
TDG:	III
US DOT:	III

14.5. Environmental hazards

MARINE POLLUTANT

14.6. Special precautions for user

NO SPECIAL PRECAUTIONS FOR USER

14.7. Maritime transport in bulk according to IMO instruments

NOT APPLICABLE

14.8. Other information

US DOT: ERG NO.171,

May be shipped as NON-RESTRICTED in non-bulk packagings (882 lbs. or less) by motor vehicle, rail car or aircraft.
(49 CFR 171.4(c))

IMDG: EmS. F-A, S-F

May be shipped as NON-RESTRICTED in single or combination packagings containing a net mass per single or inner packaging of 5 kg or less.(IMDG CODE Amendment 37-14, 2.10.2.7)

ICAO/IATA: May be shipped as NON-RESTRICTED in single or combination packagings containing a net mass per single or inner packaging of 5 kg or less. (IATA Dangerous Goods Regulation 56th edition, 4.4 Special Provisions A197)

ADR: Classification code M6 Tunnel restriction code (E)

May be shipped as NON-RESTRICTED in single or combination packagings containing a net mass per single or inner packaging of 5 kg or less. (ADR 2015 Volume 1, Chapter 3.3 Special Provisions 375)

ADG HAZCHEM CODE: 2Z HIN: 90

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU regulations

Authorisations under Title VII: Not applicable

Restrictions under Title VIII: Not applicable

Other EU regulations: Substances of very high concern (SVHC) per Regulation (EC) No 1907/2006 (REACH) Art. 57: Octamethylcyclotetrasiloxane
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances (hazard category: E2, Hazardous to the Aquatic Environment in Category Chronic 2; qualifying quantities: 200 t, 500 t)

15.1.2. National regulations

None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms: ADG: Australian Dangerous Goods Code
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE: Acute Toxicity Estimate
BCF: Bioconcentration Factor
cATpE: Converted Acute Toxicity point Estimate
CLP: Classification Labelling Packaging Regulation (1272/2008/EC)
ES: Exposure Standard
GHS: Globally Harmonized System
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods
LC50: Lethal Concentration to 50 % of a test population
LD50: Lethal Dose to 50% of a test population
LOEL: Lowest Observed Effect Level
N/A: Not Applicable
NA: Not Available
NOEC: No Observed Effect Concentration
NOEL: No Observed Effect Level
OECD: Organization for Economic Co-operation and Development
PBT: Persistent, Bioaccumulative and Toxic substance
(Q)SAR: Quantitative Structure-Activity Relationship
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (1907/2006/EC)
REL: Recommended Exposure Limit
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
SCL: Specific Concentration Limit
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit
STOT RE: Specific Target Organ Toxicity, Repeated Exposure
STOT SE: Specific Target Organ Toxicity, Single Exposure
TWA: Time Weighted Average
vPvB: very Persistent and very Bioaccumulative substance
WEL: Workplace Exposure Limit
Other abbreviations and acronyms can be looked up at www.wikipedia.org.

Key literature references and sources for data: Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST)
 Chemical Classification and Information Database (CCID)
 European Chemicals Agency (ECHA) - Information on Chemicals
 Hazardous Chemical Information System (HCIS)
 National Institute of Technology and Evaluation (NITE)
 Swedish Chemicals Agency (KEMI)
 U.S. National Library of Medicine Toxicology Data Network (TOXNET)

Procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008 [CLP] / GHS:

Classification	Classification procedure
Aquatic Chronic 2, H411	Calculation method

Relevant H-statements: H226: Flammable liquid and vapour.
 H319: Causes serious eye irritation.
 H361f: Suspected of damaging fertility.
 H400: Very toxic to aquatic life.
 H410: Very toxic to aquatic life with long lasting effects.
 H411: Toxic to aquatic life with long lasting effects.

Hazard pictogram names: Environment

Further information: None

Changes to the SDS in this revision: Sections 1.3, 2.1.2, 3.2, 8.1, 9.1, 11.1, 14.1 - 14.4, 15.1.2, 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 suitability of the product for the user's particular purpose. The user must make their own determination as to suitability.