

	SAFETY DATA SHEET
in accordance with 2	020/878/EU (REACH, Annex II) 29 CFR 1910.1200, WHMIS 2022 and Safe Work Australia
Revision: 8 October 2024	Date of previous issue: 13 September 2022 SDS No. 1096-7
SECTION 1: IDENTIFICATIO	N OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1. Product identifier	
457	
Unique Formula Identifier (U	IFI): Not required
1.2. Relevant identified uses	of the substance or mixture and uses advised against
	Nitrile bound, carbon fiber gasketing material for high temperature applications. It is also good in steam applications.
Uses advised against:	No information available
Reason why uses advised a	gainst: Not applicable
1.3. Details of the supplier of	f the safety data sheet
Company: A.W. CHESTERTON COMPA 860 Salem Street Groveland, MA 01834-1507, L Tel. +1 978-469-6446 (Mon Fri. 8:30 - 5:00 PM ES SDS requests: www.chesterto E-mail (SDS questions): Produ E-mail: customer.service@che Canada: A.W. Chesterton Com Unit 105, Burlington, Ontario L EU: Chesterton International C D85737 Ismaning, Germany – 1.4. Emergency telephone n 24 hours per day, 7 days per v Call Infotrac: 1-800-535-5053 Outside N. America: +1 352-3 NSW Poisons Information Cer	JSA T) n.com uctSDSs@chesterton.com esterton.com npany Ltd., 889 Fraser Drive, .7L 4X8 – Tel. 905-335-5055 SmbH, Am Lenzenfleck 23, . Tel. +49-89-996-5460 umber week 323-3500 (collect)
SECTION 2: HAZARDS IDEN	NTIFICATION
2.1. Classification of the sub	ostance or mixture
2.1.1. Classification accordin Australia / GHS	ng to Regulation (EC) No 1272/2008 [CLP] / 29 CFR 1910.1200 / WHMIS 2022 / Safe Work
	e criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on ckaging of substances and mixtures, 29 CFR 1910.1200, WHMIS 2022 and GHS.
2.1.2. Additional information	l
None	
2.2. Label elements	
Labelling according to Regu	llation (EC) No 1272/2008 [CLP] / 29 CFR 1910.1200 / WHMIS 2022 / Safe Work Australia / GHS
Hazard pictograms:	None
Signal word:	None
Hazard statements:	None
Precautionary statements:	None

2.3. Other hazards

Fibers may cause mechanical irritation to respiratory tract, skin and eyes.

Fibers may cause med	chanical irritation	to respirator	y tract, skin and	eyes.		
SECTION 3: COMPO	SITION/INFORM	ATION ON	INGREDIENTS			
3.2. Mixtures						
Hazardous Ingredien	ts¹	% Wt.	CAS No./ EC No.	REACH Reg. No.	CLP/GHS Classification	SCL, M-factor, ATE
Kaolin		20-30	1332-58-7 310-194-1	NA	Not classified*	Not available
Silicon dioxide		10	112926-00-8 231-545-4	NA	Not classified*	Not available
Carbon fiber		< 5	7440-44-0 231-153-3	NA	Not classified*	ATE (oral): > 2,000 mg/kg ATE (inhalation, dust): > 2 mg/l
Carbon black		<2	1333-86-4 215-609-9	NA	Not classified*	ATE (oral): > 5,000 mg/kg ATE (dermal): > 2,000 mg/kg ATE (inhalation, dust): > 4.6 mg/l
*Substance with a wor	kolace evocure	limit				
	•			and to 12.		
' Classified according to:	 29 CFR 1910.12 1272/2008/EC, WHMIS 2022 Safe Work Aust 	GHS, REACH		light-to-Know La	aw (ch. 40, M.G.LO. 111F)	
SECTION 4: FIRST A	ID MEASURES					
4.1. Description of fir	st aid measure	S				
Inhalation: Rem	ove to fresh air. I	f not breathiı	ng, administer a	rtificial respira	tion. Contact physician.	
Skin contact: Wash	n skin with soap a	and water. C	Contact physicia	n if irritation p	ersists.	
	e cautiously with g. Contact physi			emove contac	ct lenses, if present and easy	/ to do. Continue
Ingestion: Not a	pplicable					
Protection of first-aid	lers: No spec	ial precautio	ns.			
4.2. Most important s	ymptoms and e	effects, both	acute and dela	ayed		
Fibers may cause med exposure limits over a					ted inhalation of nuisance dເ	ist in excess of
4.3. Indication of any	•			•	eded	
Treat symptoms.						
SECTION 5: FIREFIG	HTING MEASU	RES				
5.1. Extinguishing m						
Suitable extinguishin		Carbon dioxid	de, dry chemical	l, foam or wate	er	
Unsuitable extinguis	-	None known				
5.2. Special hazards	-	e substance	or mixture			
Hazardous combusti				Dioxide, SOx,	NOx, Hydrogen Cyanide an	d other toxic fumes.
	•				nes from rubber binder.	
5.3. Advice for firefig		, ,		•		
Recommend Firefighte		tained breatl	hing apparatus.			
Australian HAZCHEN			1 Z			

SECTION 6: ACCIDENTAL RE								
6.1. Personal precautions, prot	ective equi	pment and	emergency	procedures				
Utilize exposure controls and per	sonal proteo	ction as spec	cified in Secti	on 8.				
6.2. Environmental Precaution	S							
No special requirements.								
6.3. Methods and material for o	ontainmen	t and clean	ing up					
Dust shall be HEPA vacuumed o	r wet swept.							
6.4. Reference to other section	S							
Refer to section 13 for disposal a	idvice.							
SECTION 7: HANDLING AND	STORAGE							
7.1. Precautions for safe hand	ing							
Avoid creating and breathing dus	t during rem	noval, drilling	, grinding, sa	wing or sand	ding.			
7.2. Conditions for safe storag	e, including	g any incom	patibilities					
Store in a cool, dry area.								
7.3. Specific end use(s)								
No special precautions.								
SECTION 8: EXPOSURE CON	FROLS/PER	SONAL PR	OTECTION					
8.1. Control parameters								
Occupational exposure limit va	alues							
Ingredients	OSHA		ACGI	I TLV ²	UKV	VEL ³	AUSTRA	
	ppm	mg/m³	ppm	mg/m³	ppm	mg/m³	ppm	mg/m³
Kaolin	(total) (resp.)	15 5	(resp.)	2	(resp.)	2	(inhal.)	10

Silicon dioxide 20 mppcf 80/(%SiO 10 * (total) (inhal.) 6 (inhal.) 3 (resp.) 2.4 (resp.) 2) Carbon fiber (total) 15 * 10 * N/A N/A N/A (total) 5 (resp.) 3 (resp.) Carbon black N/A 3.5 N/A 3 N/A 3.5 N/A STEL: 7

* Particles Not Otherwise Specified (PNOS)

¹ United States Occupational Health & Safety Administration permissible exposure limits

² American Conference of Governmental Industrial Hygienists threshold limit values

³ EH40 Workplace exposure limits, Health & Safety Executive

⁴ 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

Substance	Route of exposure	Potential health effects	DNEL
Carbon black	Inhalation	Chronic effects, systemic	1 mg/m ³ (GESTIS)

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

Not available

8.2. Exposure controls

8.2.1. Engineering measures

If it is necessary to alter the product such that dust may be generated, use adequate dust extraction or damp down.

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N/A

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8.2.2. Individual protection measures

Respiratory protection:	Not normally needed. If exposure limit is exceeded, use approved dust respirator (e.g., EN filter type P1/P2).
Protective gloves:	Not normally needed.
Eye and face protection:	Recommend safety glasses.
Other:	None
8.2.3. Environmental expo	sure controls
Refer to sections 6 and 12.	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

	elear ana enemiear prope	1.000	
Physical state	solid	рН	not applicable
Colour	black	Kinematic viscosity	not applicable
Odour	slight aromatic odor	Solubility in water	insoluble
Odour threshold	not determined	Partition coefficient	not applicable
		n-octanol/water (log value)	
Boiling point or range	not applicable	Vapour pressure @ 20°C	not applicable
Melting point/freezing point	not determined	Density and/or relative density	1.6
% Volatile (by volume)	not applicable	Weight per volume	not applicable
Flammability	not determined	Vapour density (air=1)	not applicable
Lower/upper flammability	not applicable	Rate of evaporation (ether=1)	not applicable
or explosion limits			
Flash point	not applicable	% Aromatics by weight	not applicable
Method	not applicable	Particle characteristics	no data available
Autoignition temperature	not determined	Explosive properties	not applicable
Decomposition temperature	> 300°C (> 572°F)	Oxidising properties	not applicable
0.0. Other information			

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 under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under conditions of normal use.

10.4. Conditions to avoid

Temperatures above 450°C (842°F).

10.5. Incompatible materials

Not known

10.6. Hazardous decomposition products

Thermal decomposition may produce Carbon Monoxide, Carbon Dioxide, SOx, NOx, Hydrogen Cyanide and other toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 / GHS

Primary route of exposure Inhalation, skin and eye contact. Personnel with pre-existing chronic respiratory disease may be under normal use: aggravated by exposure.

Acute toxicity -

Oral:

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

Substance	Test	Result
Carbon fiber	LD50, rat	> 2,000 mg/kg
Carbon black	LD50, rat	> 5,000 mg/kg

Dermal:	Based on available	data on components, the classification crite	eria are not met.
	Substance	Test	Result
	Carbon fiber	LD50, rabbit	> 2,000 mg/kg
Inhalation:			
	Substance	Test	Result
	Carbon fiber	LD50, rat	> 2 mg/l (dust)
	Carbon black	LD50, rat	> 4.6 mg/l (dust)
Skin corrosion/irritation:	-	nechanical irritation to skin.	
Serious eye damage/ irritation:	Fibers may cause	nechanical irritation to eyes.	
Respiratory or skin sensitisation:	No known significa	nt effects.	
Germ cell mutagenicity:	No known significa	nt effects.	
Carcinogenicity:	IARC has designat	ed carbon black as possibly carcinogenic to	humans (group 2B).
Reproductive toxicity:	No known significa	nt effects.	
STOT – single exposure:	No known significa	nt effects.	
STOT – repeated exposure:	Repeated inhalatic may result in injury	n of nuisance dust in excess of exposure lin to the lungs.	nits over an extended period of time
Aspiration hazard:	Not applicable		
11.2. Information on other ha	zards		
None known			
SECTION 12: ECOLOGICAL			
	been determined sp	ecifically for this product. The information giv	ven below is based on a knowledge
12.1. Toxicity	37		
Not determined			
12.2. Persistence and degrad	lability		
•	-	lioxide, Carbon fiber, Carbon black: inorgan	ic substances
12.3. Bioaccumulative poten			
Not expected to bioaccumulate			
•	·-		
	ermining environme	tal mobility, consider the product's physical	and chemical properties (see
Section 9).	·D accordance		
12.5. Results of PBT and vPv	D assessment		
Not available	ronoutic-		
12.6. Endocrine disrupting p	operties		
None known			
12.7. Other adverse effects			
None known			
SECTION 13: DISPOSAL CO			
13.1. Waste treatment metho			
Unused product is not a regula requirement.	ted waste. Check loo	al, state and national/federal regulations an	d comply with the most stringent
	NFORMATION		
SECTION 14: TRANSPORT I			
14.1. UN number or ID numb	er		
14.1. UN number or ID numb ADG/ADR/RID/ADN/IM	er DG/ICAO: NOT AI		
14.1. UN number or ID numb	er DG/ICAO: NOT AI NOT AI	PLICABLE PLICABLE PLICABLE	
14.1. UN number or ID numb ADG/ADR/RID/ADN/IM TDG:	er DG/ICAO: NOT AI NOT AI NOT AI	PLICABLE	

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TRO	
TDG: US DOT:	NON-HAZARDOUS, NON REGULATED NON-HAZARDOUS, NON REGULATED
14.3. Transport hazard class(es)	
ADG/ADR/RID/ADN/IMDG/ICAO:	NOT APPLICABLE
TDG:	NOT APPLICABLE
US DOT:	NOT APPLICABLE
14.4. Packing group	
ADG/ADR/RID/ADN/IMDG/ICAO:	NOT APPLICABLE
TDG:	NOT APPLICABLE
US DOT:	NOT APPLICABLE
14.5. Environmental hazards	
NOT APPLICABLE	
14.6. Special precautions for user	
NOT APPLICABLE	
14.7. Maritime transport in bulk accordir NOT APPLICABLE	ig to Imo instruments
14.8. Other information	
NOT APPLICABLE	
SECTION 15: REGULATORY INFORMAT	
15.1. Safety, health and environmental re	egulations/legislation specific for the substance or mixture
15.1.1. EU regulations	
Authorisations under Title VII: Not ap	plicable
Restrictions under Title VIII: None	
Other EU regulations: None	
15.1.2. National regulations	
US EPA SARA TITLE III	
312 Hazards:	Chemicals subject to reporting requirements of Section 313 of EPCRA and of 40 CFR 372:
None	None
TSCA: All chemical components are listed	or exempted

TSCA: All chemical components are listed or exempted.

Other national regulations: None

15.2. Chemical safety assessment

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

Abbreviations	FHER INFORMATION ADG: Australian Dangerous Goods Code					
and acronyms:	ADG. Australian Dangerous Goods Code ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways					
ina acronyms.	: European Agreement concerning the International Carriage of Dangerous Goods by Road					
ATE: Acu BCF: Bioc cATpE: C	Acute Toxicity Estimate					
	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 $^{\circ}$ 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					
	TDG: Transportation of Dangerous Goods (Canada)					
	TWA: Time Weighted Average					
	US DOT: United States Department of Transportation					
	vPvB: very Persistent and very Bioaccumulative substance					
	WEL: Workplace Exposure Limit					
	WHMIS: Workplace Hazardous Materials Information System					
	Other abbreviations and acronyms can be looked up at <u>www.wikipedia.org</u> .					
Key literature ref	ierences Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST)					
and sources for						
	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					
None	Not applicable					
Relevant H-state	ments: None					
Hazard pictograr	n names: Not applicable					
Surthan informat	ion: None					
-untrier informat						
	ion: 8 October 2024					
Further informat Date of last revis	sion: 8 October 2024					

Changes to the SDS in this revision: Sections 1.1, 1.2, 2.1, 3, 5.1, 5.2, 8.1.

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.