

	ance with REACH (SAFETY DATA 1907/2006/EC, as amended by 2		910.1200 and WHMIS 2015
Revision date:	8 June 2018	Initial date of issue:	23 March 2011	SDS No. 1140-7
SECTION 1: IDE	NTIFICATION OF T	HE SUBSTANCE/MIXTURE AN	D OF THE COMPANY/	UNDERTAKING
1.1. Product ider	tifier			
1622 (Lot number	180601 and higher)			
1.2. Relevant ide	ntified uses of the	substance or mixture and uses	s advised against	
Graphite based be	aided packing with r	nickel alloy wire reinforcement for	use in block valves in l	ow emissions VOC service.
1.3. Details of the	e supplier of the sa	fety data sheet		
(Mon Fri. 8:30 - SDS requests: ww E-mail (SDS ques E-mail: customer. Canada: A.W. Ch Unit 105, Burlingte EU: Chesterton In D85737 Ismaning	834-1507, USA 6446 Fax: +1 978- 5:00 PM EST) w.chesterton.com tions): ProductMSD service@chesterton. esterton Company L	Ss@chesterton.com com td., 889 Fraser Drive, – Tel. 905-335-5055 M Lenzenfleck 23,	lier:	
Call Infotrac: 1-80 Outside N. Americ NSW Poisons Info SECTION 2: HAZ	00-535-5053 ca: +1 352-323-3500 prmation Centre (Aus ZARDS IDENTIFICA	stralia): 13 11 26 TION		
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2.3. Other hazards

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.

• •	handling PIFE products				
	OMPOSITION/INFORM	ATION ON IN	GREDIENTS		
3.2. Mixtures					
Hazardous Ingredients ¹		% Wt.	CAS No./ EC No.	REACH Reg. No.	CLP/GHS Classification
None					
Other ingredien	ts:	60-70	7700 40 5		
Graphite		60-70	7782-42-5 231-955-3	NA	Not classified*
Silica (Quartz) < 1 14808-60-7 NA Not classified* 238-878-4 238-878-4 238-878-4 14808-60-7 14808-7 <td< td=""><td>Not classified*</td></td<>					Not classified*
*Substance with	n a workplace exposure l	imit.			
¹ Classified accor	ding to: • 29 CFR 1910.120 • 1272/2008/EC, G • WHMIS 2015 • Safe Work Austra	GHS, REACH	1917, Mass. Right-1	o-Know Law (ch. 40), M.G.LO. 111F)
	IRST AID MEASURES				
-	n of first aid measures				
Inhalation:	If overcome by decom Contact physician.	position fumes	s, remove to fresh	air. If not breathin	ng, administer artificial respiration.
Skin contact:	Wash skin with soap a	ind water. Cor	ntact physician if ir	ritation persists.	
Eye contact:	Flush eyes for at least	15 minutes w	ith large amounts	of water. Contact	physician if irritation persists.
Ingestion:	Not applicable				
Protection of f	irst-aiders: No specia	al precautions.			
4.2. Most impo	rtant symptoms and ef	fects, both ad	cute and delayed		
excess of expos		ded period of t	ime may result in		eated inhalation of nuisance dust in s. Symptoms can include cough,
4.3. Indication	of any immediate medi	cal attention	and special trea	tment needed	
Treat symptoms	3.				
SECTION 5: F	REFIGHTING MEASUR	ES			
5.1. Extinguish	ing media				
Suitable exting	juishing media: Carb	on dioxide, dry	y chemical, foam	or water spray	
Unsuitable ext	inguishing media: No	ne known			
5.2. Special ha	zards arising from the	substance or	mixture		
Toxic fumes ma	y be emitted at temperat	tures above 26	60°C (500°F).		
5.3. Advice for	firefighters				
Recommend Fi	refighters wear self-conta	ained breathing	g apparatus.		
Flammability C	Classification: –				
HAZCHEM Em	ergency Action Code:	2 Z			
SECTION 6: A	CCIDENTAL RELEASE	MEASURES			
6.1. Personal p	recautions, protective	equipment a	nd emergency pr	ocedures	
Utilize exposure	e controls and personal p	rotection as s	pecified in Sectior	n 8.	
6.2. Environme	ental Precautions				
No special requ	irements.				
0. A. M					

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6.3. Methods and material for containment and cleaning up

No special steps required. Nontoxic.

6.4. Reference to other sections

Refer to section 13 for disposal advice.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Accumulations of graphite may cause shorting of electrical circuits. Do not smoke when handling PTFE products; wash hands after handling to avoid transfer to tobacco products. Avoid creating and breathing dust during removal, drilling, grinding, sawing or sanding.

7.2. Conditions for safe storage, including any incompatibilities

Store in cool, dry area. Exposure to heat, humidity, ozone or light may shorten its unlimited shelf life.

7.3. Specific end use(s)

No special precautions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limit values

Ingredients	OSHA		ACGI	H TLV ²	UK	NEL ³	AUSTR	ALIA ES ⁴
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m³
Graphite	15 mppcf	(resp.)	(resp.)	2	(inhal.) (resp.)	4 10	(resp.)	3
Silica (Quartz)	(resp.) (total)	0.5 0.3	(resp.)	0.025	(resp.)	0.1	(resp.)	0.1

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 Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003]

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

Workers

Not available

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

Not available

8.2. Exposure controls8.2.1. Engineering measures

If using under extreme heat, use local exhaust.

8.2.2. Individual protection measures

Respiratory protection:Not normally needed. If exposure limits are exceeded, use an approved dust respirator (e.g., EN filter
type P2).Protective gloves:Not normally needed.Eye and face protection:Recommend safety glasses.Other:None8.2.3. Environmental exposure controlsRefer to sections 6 and 12.

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Date: 8 June 2018

9.1. Information on basic ph	D CHEMICAL PROPERTIE sysical and chemical prop	erties	
-	solid	Odour	odorless
Physical state Colour	gray	Odour Odour threshold	not determined
Initial boiling point	not applicable	Vapour pressure @ 20°C	not applicable
Melting point	not determined	% Aromatics by weight	not applicable
% Volatile (by volume)	not applicable	рН	not applicable
Flash point	not applicable	Relative density	not applicable
Method	not applicable	Weight per volume	not applicable
Viscosity Autoignition temperature	not applicable not determined	Coefficient (water/oil) Vapour density (air=1)	not applicable not applicable
Decomposition temperature		Rate of evaporation (ether=1)	not applicable
Upper/lower flammability	not applicable	Solubility in water	insoluble
or explosive limits			
Flammability (solid, gas) Explosive properties	not applicable not applicable	Oxidising properties	not applicable
9.2. Other information			
None			
SECTION 10: STABILITY AN 10.1. Reactivity			
Refer to sections 10.3 and 10.	5		
10.2. Chemical stability			
Stable			
	is reactions		
10.3. Possibility of hazardou			
No dangerous reactions know	n under conditions of norma	al use.	
10.4. Conditions to avoid			
Extreme heat above 260°C (50			
10.5. Incompatible materials			
Fluorine, Chlorine Trifluoride a	and related compounds and	l molten alkali metals.	
10.6. Hazardous decomposit	tion products		
Carbon Monoxide, Carbon Dic evolved above 260°C (500°F).		lrogen Fluoride, Perfluorocarbon olefins a	and other toxic fumes may be
	CAL INFORMATION		
SECTION 11: TOXICOLOGIC			
	ogical effects		
11.1. Information on toxicolo Primary route of exposure	-	contact. Personnel with pre-existing chron exposure.	ic respiratory impairments are
11.1. Information on toxicolo Primary route of exposure under normal use:	Inhalation, skin and eye c		ic respiratory impairments are
11.1. Information on toxicolo Primary route of exposure under normal use:	Inhalation, skin and eye o generally aggravated by e		
11.1. Information on toxicolo Primary route of exposure under normal use: Acute toxicity -	Inhalation, skin and eye of generally aggravated by e Based on available data of Substance	exposure. on components, the classification criteria	are not met.
11.1. Information on toxicolo Primary route of exposure under normal use: Acute toxicity -	Inhalation, skin and eye of generally aggravated by e Based on available data of	exposure.	are not met.
11.1. Information on toxicolo Primary route of exposure under normal use: Acute toxicity -	Inhalation, skin and eye of generally aggravated by of Based on available data of Substance Graphite	exposure. on components, the classification criteria	are not met. Result > 2000 mg/kg
11.1. Information on toxicolo Primary route of exposure under normal use: Acute toxicity - Oral:	Inhalation, skin and eye of generally aggravated by e Based on available data of Substance Graphite Based on available data of	on components, the classification criteria Test LD50, rat	are not met. Result > 2000 mg/kg are not met.
11.1. Information on toxicolo Primary route of exposure under normal use: Acute toxicity - Oral: Dermal:	Inhalation, skin and eye o generally aggravated by o Based on available data o <u>Substance</u> Graphite Based on available data o Graphite dust may cause	exposure. on components, the classification criteria Test LD50, rat on components, the classification criteria mechanical irritation of the nasal passag	are not met. Result > 2000 mg/kg are not met. es.
11.1. Information on toxicolo Primary route of exposure under normal use: Acute toxicity - Oral: Dermal:	Inhalation, skin and eye of generally aggravated by of Based on available data of <u>Substance</u> Graphite Based on available data of Graphite dust may cause	exposure. on components, the classification criteria Test LD50, rat on components, the classification criteria mechanical irritation of the nasal passag Test	are not met. Result > 2000 mg/kg are not met. es. Result
Dermal: Inhalation:	Inhalation, skin and eye o generally aggravated by o Based on available data o Substance Graphite Based on available data o Graphite dust may cause Substance Graphite	exposure. on components, the classification criteria Test LD50, rat on components, the classification criteria mechanical irritation of the nasal passag Test LC50, rat, 4 hours	are not met. Result > 2000 mg/kg are not met. es.
11.1. Information on toxicolo Primary route of exposure under normal use: Acute toxicity - Oral: Dermal: Inhalation:	Inhalation, skin and eye o generally aggravated by o Based on available data o Substance Graphite Based on available data o Graphite dust may cause Substance Graphite	exposure. on components, the classification criteria Test LD50, rat on components, the classification criteria mechanical irritation of the nasal passag Test	are not met. Result > 2000 mg/kg are not met. es. Result
11.1. Information on toxicolo Primary route of exposure under normal use: Acute toxicity - Oral: Dermal:	Inhalation, skin and eye o generally aggravated by o Based on available data o Substance Graphite Based on available data o Graphite dust may cause Substance Graphite	exposure. on components, the classification criteria Test LD50, rat on components, the classification criteria mechanical irritation of the nasal passag Test LC50, rat, 4 hours	are not met. Result > 2000 mg/kg are not met. es. Result

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Serious eye damage/ irritation:	Graphite dust may cause mechanical irritation to the eyes.					
	Substance	Test	Result			
	Graphite	Eye irritation, rabbit	Not irritating			
Respiratory or skin						
sensitisation:	Substance	Test	Result			
	Graphite	Skin sensitization, mouse	Not sensitizing			
Germ cell mutagenicity:	Graphite: based on available data	a, the classification criteria are not met				
Carcinogenicity:	The International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP) have classified inhaled silica as a human carcinogen.					
Reproductive toxicity:	Graphite: based on available data, the classification criteria are not met.					
STOT – single exposure:	Not expected to cause toxicity. Graphite: based on available data, the classification criteria are no 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. Prolonged, excessive inhalation of Graphite dust has caused emphysema and pneumoconiosis. Graphite: based on available data, the classification criteria are not met.					
Aspiration hazard:	Based on available data, the clas	sification criteria are not met.				
Other information:	None	None				

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

This product is expected to exhibit low toxicity to aquatic and soil organisms. Graphite: 96 h LC50 (fish) > 100 mg/l.

12.2. Persistence and degradability

Graphite, Silica: inorganic substances, exist in nature. PTFE: material is chemically unreactive and nonbiodegradable.

12.3. Bioaccumulative potential

Graphite: bioconcentration in aquatic organisms is not expected to be significant.

12.4. Mobility in soil

Solid. 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. Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Check local, state and national/federal regulations and comply with the most stringent requirement. This product is not classified as a hazardous waste according to 2008/98/EC.

SECTION 14: TRANSPORT INFORMATION				
14.1. UN number				
ADR/RID/ADN/IMDG/ICAO:	NOT APPLICABLE			
TDG:	NOT APPLICABLE			
US DOT:	NOT APPLICABLE			
14.2. UN proper shipping name				
ADR/RID/ADN/IMDG/ICAO:	NON-HAZARDOUS, NON REGULATED			
TDG:	NON-HAZARDOUS, NON REGULATED			
US DOT:	NON-HAZARDOUS, NON REGULATED			
14.3. Transport hazard class(es)				
ADR/RID/ADN/IMDG/ICAO:	NOT APPLICABLE			
TDG:	NOT APPLICABLE			

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US DOT:	NOT APPLICABLE
14.4. Packing group	
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	
	Annex II of MARPOL73/78 and the IBC Code
NOT APPLICABLE	
14.8. Other information	
NOT APPLICABLE	
SECTION 15: REGULATORY INFORI	MATION
15.1. Safety, health and environment	al regulations/legislation specific for the substance or mixture
15.1.1. EU regulations	
Authorisations under Title VII: Not	applicable
Restrictions under Title VIII: None	
Other EU regulations: None	
15.1.2. National regulations	
US EPA SARA TITLE III	
312 Hazards: 313 Chemi	cals:
See section 2.1.2 None	
Other national regulations: None	
-	
15.2. Chemical safety assessment	
No Chemical Safety Assessment has b	een carried out for this substance/mixture by the supplier.

SECTION 16: 0	THER INFORMATION
Abbreviations and acronyms:	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 Concentration to 50% of a test population LD51: No Observed Effect Concentration NOEL: No Observed Effect Concentration NOEL: No Observed Effect Concentration NOEL: No Observed Effect Level OXAR: 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 SS Safety Data Sheet STEL: Short Term Exposure Limit STOT RE: Specific Target Organ Toxicity, Repeated Exposure STOT RE: Specific Target Organ Toxicity, Single Exposure STOT RE: Specific Ta
Key literature ref and sources for	
r	to derive the classification for mixtures according to Regulation (EC) No 1272/2008 [CLP] / GHS:
Classification None	Classification procedure Not applicable
Relevant H-state	
Hazard pictogra	
Changes to the S	SDS in this revision: Sections 1.1, 2.1, 2.2, 3, 8.1, 11, 12.2, 15.1.2, 16.
Date of last revis	ion: 8 June 2018
Further informat	ion: None
	ased solely on data provided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied ility of the product for the user's particular purpose. The user must make their own determination as to suitability.