

| | 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 | | |
| Call Infotrac: 1-80 Outside N. Americ NSW Poisons Info SECTION 2: HA2 2.1. Classificatio | 00-535-5053 ca: +1 352-323-3500 ormation Centre (Aus ZARDS IDENTIFICA n of the substance | stralia): 13 11 26 TION or mixture | | |
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| Call Infotrac: 1-80 Outside N. Americ NSW Poisons Info SECTION 2: HAZ 2.1. Classificatio 2.1.1. Classificat This product does classification, labe as it contains at least | 00-535-5053 ca: +1 352-323-3500 ormation Centre (Aus CARDS IDENTIFICA n of the substance ion according to Re not meet the criteria elling and packaging | stralia): 13 11 26 TION or mixture egulation (EC) No 1272/2008 [C a for classification in any hazard of substances and mixtures. Ho osing human health or environm | class according to Regu | Ilation (EC) No 1272/2008 on |
| Call Infotrac: 1-80 Outside N. Americ NSW Poisons Info SECTION 2: HAZ 2.1. Classificatio 2.1.1. Classificat This product does classification, labe as it contains at le 2.1.2. Australian | 00-535-5053 ca: +1 352-323-3500 ormation Centre (Aus CARDS IDENTIFICA n of the substance ion according to Re not meet the criteria elling and packaging tast one substance p statement of hazar | stralia): 13 11 26 TION or mixture egulation (EC) No 1272/2008 [C a for classification in any hazard of substances and mixtures. Ho osing human health or environm | class according to Regu wever, a safety data she ental hazards. | Ilation (EC) No 1272/2008 on |
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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. |