Durlon® 7760

SECTION 1. IDENTIFICATION

Product Identifier Durlon® 7760

Product Family Compressed Non Asbestos

Manufacturer Durabla Canada Ltd., 293 University Avenue
PO Box 696, Belleville, ON

Supplier Identifier Triangle Fluid Controls Ltd., 399 College St E., Belleville, Ontario, K8N 5S7, Chett Norton, 613-968-1100, www.trianglefluid.com

Emergency Phone No. Triangle Fluid Controls Ltd., 613-968-1100, 8 am - 5pm EST

SDS No. 0043

Date of Preparation May 31, 2017

SECTION 2. HAZARD IDENTIFICATION

Classification

Not classified under any hazard class.

Label Elements

Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Aluminum Silicate	1332-58-7	40-60		

Notes

This product consists of a trade secret formulation comprised of a combination of synthetic rubber binder systems and other fillers such as celluose, glass, mineral fibres and domestic grade inert clay. This product formulation does not contain asbestos.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air.

Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes.

Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

Get medical advice or attention if you feel unwell or are concerned.

First-aid Comments

If irritation occurs or persists from any route of exposure, discontinue use immediately and consult physician. Bring

Safety Data Sheet for physician consultation.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Water mist, foam, dry chemical or carbon dioxide (CO2).

Specific Hazards Arising from the Product

Not sensitive to static discharge.

Special Protective Equipment and Precautions for Fire-fighters

Self-contained breathing apparatus and protective clothing must be worn in case of fire. If possible, prevent runoff from entering storm sewers, water bodies or other environmentally sensitive areas.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Place spilled material (dust) in a container for disposal. Dispose of all waste according to federal, state, provincial or local laws.

Environmental Precautions

No special precautions are necessary.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

No special handling precautions are necessary. It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Conditions for Safe Storage

Store in a cool, dry place away from direct sunlight to maximize shelf life.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	**TWA**	**STEL**	**TWA**	**Ceiling**	**8-hr TWA**	**TWA**
Aluminum Silicate	2 mg/m3		15 mg/m3			

OSHA PEL = 0.1 mg/m3 (Respirable dust at crystalline silica)
ACGIH TLV = 0.1 mg/m3 (Respirable dust at crystalline silica)

Appropriate Engineering Controls

General ventilation is usually adequate. If dust or fumes are generated during use, use local exhaust in combination with general ventilation as necessary to remove fumes/dust from the worker's breathing zone and to ensure exposures do not exceed applicable limits.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

Not required, if used as directed. Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection

Not normally required if product is used as directed. Use particulate filter respirator for specific particulate concentrations exceeding the Occupational Exposure Limits.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Tan.
Odour	Not available
pH	Not applicable
Melting Point/Freezing Point	Not available (melting)
Initial Boiling Point/Range	Not available
Evaporation Rate	Not applicable
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.2 - 1.8
Solubility	Insoluble in water

Other Information

Physical State	Solid

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Conditions to Avoid

High temperatures. Open flames, sparks, static discharge, heat and other ignition sources.

Incompatible Materials

See chemical resistance chart.

Hazardous Decomposition Products

Carbon monoxide. Hydrogen cyanide and hydrogen chloride in small amounts. In the cause of thermal decomposition at temperatures above 250°C (482°F), toxic gases and vapours may occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation.

Acute Toxicity

The LD50 is greater than 5.0 g/kg of body weight

The LD50 is greater than 2.0 g/kg of body weight.

Skin Corrosion/Irritation

Contact with this product may irritate exposed skin and non-irritating skin eyes, but it is recommended to wash the skin after use.

Serious Eye Damage/Irritation

The compound is non-irritant and non-corrosive.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Dust exposure is excess of the TLV is not expected since the materials are primarily bound in the product.

Skin Absorption

No information was located.

Ingestion

Consult physician if necessary.

Carcinogenicity

Known human carcinogen. A1 – Confirmed human carcinogen.
NTP has classified repirable crystalline silica as a probable carcinogen. IARC has established a 1 classification to

crystalline silica as a known carcinogen to humans.

Reproductive Toxicity

Development of Offspring

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No information was located.

Persistence and Degradability

No specific data available for this product; however this product is not expected to be readily biodegradable.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with all applicable municipal, provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

N/A.

Canada

WHMIS 1988 Classification

Not a WHMIS controlled product.

CEPA - National Pollutant Release Inventory (NPRI)

No components of this product are listed as CEPA priority substances.

SECTION 16. OTHER INFORMATION

NFPA Rating	**Health - 1 Flammability - 1**
SDS Prepared By	Triangle Fluid Controls Ltd.
Phone No.	613-968-1100
Date of Preparation	May 31, 2017
Disclaimer	The information provided in this SDS is correct and to the best of our knowledge at the date of its publication. The information provided is intended only as a guidance for safe handling, transportation, storage, use and disposal and is not considered a warranty or quality specification. This SDS is intended for the material specifiied and may not be valid for the material used in any other combination or process unless specified in the text.

Durlon® 9000

SECTION 1: IDENTIFICATION DU PRODUIT CHIMIQUE ET DE LA COMPAGNIE

Identificateur du produit	Durlon® 9000
Famille du produit	PTFE
Usage recommandé	Matériau du joint.
Restrictions d'utilisation	La température maximale du service ne doit pas dépasser 260 ° C (500 ° F).
Fabricant	Triangle Fluid Controls Ltd., 399 College St E., Belleville, Ontario, K8N 5S7, Chett Norton, 613-968-1100, www.trianglefluid.com
Numéro de téléphone d'urgence	Triangle Fluid Controls Ltd., 613-968-1100, 8 am - 5pm EST
Numéro de la FS	0033

SECTION 2: IDENTIFICATION DES DANGERS

Classification

Non classifié dans une classe de danger.

Éléments d'étiquetage

Sans objet

SECTION 3: COMPOSITION/INFORMATION SUR LES INGRÉDIENTS

Nom chimique	Numéro de CAS	%	Autres identificateurs	Autres noms
Polytetrafluoroethylene	9002-84-0	70-80		
Fibrous glass	65997-17-3	20-30		
C.I. Pigment Blue 28	1345-16-0	0.1-1.5		

SECTION 4: PREMIERS SOINS

Mesures de premiers soins

Inhalation

Transporter à l'air frais. Consulter un médecin si vous vous sentez mal ou si vous êtes inquiet.

Contact avec la peau

Le produit n'est pas susceptible d'être dangereux par contact avec la peau, mais il est conseillé de nettoyer la peau après utilisation.

Contact avec les yeux

Rincer les yeux contaminés à l'eau tiède, en douceur, pendant 5 minutes, tout en maintenant les paupières ouvertes. Si l'irritation des yeux persiste, demander un avis médical ou consulter un médecin.

Ingestion

Ne s'applique pas (gaz). Consulter un médecin si vous vous sentez mal ou si vous êtes inquiet.

Commentaires sur les premiers soins

Traiter de façon symptomatique. Consulter un médecin si vous vous sentez mal ou si vous êtes inquiet.

Symptômes et effets les plus importants, qu'ils soient aigus ou retardés

En cas de contact avec les yeux : peut causer une légère irritation.

SECTION 5: MESURES À PRENDRE EN CAS D'INCENDIE

Extinguishing Media

Agents extincteurs appropriés

Brouillard d'eau, mousse, poudre chimique sèche ou dioxyde de carbone (CO2)..

Agents extincteurs inappropriés

Utilisez un courant d'eau pour éteindre, car cela pourrait propager l'incendie.

Dangers spécifiques du produit

Le chauffage augmente le dégagement de vapeurs toxiques.
Durant un incendie, les matières dangereuses suivantes peuvent être produites : produits chimiques toxiques; fluorure d'hydrogène corrosif. Porter des gants en néoprène lors de la manipulation des déchets causés par le feu.

Équipements de protection spéciaux et précautions spéciales pour les pompiers

Avant d'entrer, surtout dans les zones confinées, utilisez un moniteur approprié afin de vérifier ce qui suit : la présence de gaz ou de vapeurs toxiques. Des dispositifs de respiration autonomes et des vêtements de protection doivent être portés en cas d'incendie. Aucun risque inhabituel d'incendie ou d'explosion n'est noté.

SECTION 6: MESURES À PRENDRE EN CAS DE DÉVERSEMENT ACCIDENTEL

Précautions personnelles

Évitez le ponçage, le grinidging ou d'autres opérations abrasives. La poussière créée pour ces actions doit être capturée par un essuyage humide ou avec un vide équipé de filtration HEPA. Ne pas balayer à sec, ni souffler de la poussière avec un ventilateur ou de l'air comprimé. Évitez de respirer la poussière et la contamination des cigarettes ou du tabac avec de la poussière de cette matière.

Précautions relatives à l'environnement

Aucune précaution particulière n'est nécessaire.

Méthode de confinement et de nettoyage

Aucune méthode de nettoyage particulière n'est nécessaire.

SECTION 7: MANUTENTION ET ENTREPOSAGE

Manutention

Les précautions suivantes constituent des pratiques exemplaires : éviter de respirer le produit; éviter tout contact cutané et oculaire; se laver les mains après la manutention.

Entreposage

Aucune exigence précise quant à l'aire d'entreposage. Adhérer à tous les règlements applicables en matière de santé et de sécurité, et à tous les codes de prévention des incendies et aux codes du bâtiment.

SECTION 8: CONTRÔLE DE L'EXPOSITION/PROTECTION INDIVIDUELLE

Limites d'exposition

	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Nom chimique	**TWA**	**STEL**	**TWA**	**Ceiling**	**8-hr TWA**	**TWA**
Fibrous glass	5 mg/m3 **					
C.I. Pigment Blue 28	0.02 mg/m3					

Contrôles d'ingénierie

La ventilation générale est habituellement adéquate.

Équipement de protection individuelle

Protection des yeux et du visage

Non requis, mais le port de lunette de sécurité ou de lunettes de protection contre les produits chimiques constitue une pratique exemplaire.

Protection de la peau

Si des matériaux sont manipulés à chaud, utilisez des gants résistant à la chaleur.

Protection des voies respiratoires

Utiliser un appareil de protection respiratoire à filtre à particules pour des concentrations spécifiques de particules dépassant les limites d'exposition professionnelle.

SECTION 9: PROPRIÉTÉS PHYSIQUES ET CHIMIQUES

Propriétés physiques et chimiques de base

Apparence	Bleu.
Odeur	Sans objet
Seuil olfactif	Sans objet
Point de fusion/Point de congélation	327 ºC (621 ºF) (fusion)
Point d'ébullition	Sans objet
Point d'éclair	Sans objet
Inflammabilité (solides et gaz)	Pas disponible
Limites supérieures/inférieures d'Inflammabilité ou d'Explosibilité	Sans objet (supérieure); Sans objet (inférieure)
Tension de vapeur	Pas disponible
Densité de vapeur	Pas disponible
Densité relative (eau = 1)	Pas disponible
Solubilité	Insoluble dans l'eau
Température d'auto-ignition	520 - 560 ºC (968 - 1040 ºF)
Température de décomposition	260 ºC (500 ºF)
Viscosité	Sans objet (cinématique); Sans objet (dynamique)

Autres informations

État physique	Solide
Conductivité électrique	Pas disponible
Tension de vapeur à 50 °C	Pas disponible

SECTION 10: STABILITÉ ET RÉACTIVITÉ

Réactivité

Non réactif dans des conditions normales d'utilisation.

Stabilité chimique

Habituellement stable.

Possibilité de réactions dangereuses

Aucun prévu dans les conditions normales de stockage et d'utilisation.

Conditions à éviter

Flammes nues, étincelles, décharge électrostatique, chaleur et autres sources d'ignition. Températures au-dessus de

260.0 ºC (500.0 ºF)

Matières incompatibles

Les métaux alcalins fondus (par exemple l'alliage de sodium, de potassium ou de sodium et de potassium), le fluor, le trifluorure de chlore, les agents fluorants forts et l'hydroxyde de sodium (réagit au-dessus de 300 ° C / 572 ° F).

Produits de décomposition dangereux

Le fluorure d'hydrogène, le tétrafluorure de carbone, le fluorure de carbonyle et le monomère de tétrafluoroéthylène peuvent se former si le PTFE est surchauffé ou brûlé. Les montants varieront en fonction des conditions spécifiques.

SECTION 11: DONNÉES TOXICOLOGIQUES

Les renseignements présentés ci-dessous s'appliquent au produit original, à moins d'indications contraires.

Voies d'exposition

Inhalation; contact oculaire; ingestion.

Corrosion/Irritation cutanée

Pas un irritant pour la peau, mais le lavage de la peau après utilisation est recommandée.

Corrosion/irritation des yeux

Rincer à l'eau. Consulter un médecin si une irritation est observée.

Toxicité pour certains organes cibles - Exposition unique

Inhalation

Ne pas être dangereux par inhalation. En cas d'exposition aux fumées provenant de l'inflammation ou de la combustion du produit, déplacer à l'air frais. Consulter les symptômes du médecin persistent.

Absorption par la peau

Sans danger.

Cancérogénicité

Groupe 2B – Peut-être cancérogènes pour l’humain.

Signification des abréviations

Groupe 2B = Peut-être cancérogènes pour l’humain.

SECTION 12: DONNÉES ÉCOLOGIQUES

Le produit n'est pas classé comme dangereux pour l'environnement. Cependant, cela n'inclut pas la possibilité que de nombreux déversements fréquents puissent avoir un effet néfaste ou dommageable sur l'environnement.

SECTION 13: DONNÉES SUR L'ÉLIMINATION

Élimination

Éliminer conformément à tous les règlements municipaux, provinciaux et fédéraux applicables.

SECTION 14: INFORMATIONS SUR LE TRANSPORT

N'est pas régi par le Règlement canadien sur le transport de marchandises dangereuses. N'est pas régi par le Règlement DOT É.-U. N'est pas régi par le Règlement IATA.

Réglementation	Numéro ONU	Désignation officielle de transport	Classe(s) de danger relative(s) au transport	Groupe d'emballage

Précautions spéciales Sans objet

Transport en vrac aux termes de l'annexe II de la Convention MARPOL 73/78 et du Recueil IBC

Sans objet

SECTION 15: INFORMATIONS SUR LA RÉGLEMENTATION

Réglementation relative à la sécurité, à la santé et à l'environnement

Canada

Classification SIMDUT 1988

Ce produit a été répertorié conformément aux critères de danger établis par le Règlement sur les produits contrôlés et la FDS contient tous les renseignements exigés par le Règlement sur les produits contrôlés.

Liste intérieure des substances (LIS)/liste extérieure des substances (LES)

Inscrit sur la LIS.

États-Unis

Toxic Substances Control Act (TSCA) Section 8(b)

Tous les ingrédients figurent sur l'inventaire de la TSCA.

SECTION 16: RENSEIGNEMENTS SUPPLÉMENTAIRES

Date de la plus récente version révisée	le 07 mars, 2017
Avis	Les renseignements fournis dans la présente fiche de données de sécurité sont exacts et, à notre connaissance, à la date de sa publication. Les informations fournies ne sont que des indications pour la manipulation, le transport, le stockage, l'utilisation et l'élimination en toute sécurité et ne sont pas considérées comme une garantie ou des spécifications de qualité. Cette FDS est destinée au matériel spécifié et peut ne pas être valable pour le matériel utilisé dans toute autre combinaison ou processus, sauf si spécifié dans le texte.

Durlon® 9000N

SECTION 1. IDENTIFICATION

Product Identifier	Durlon® 9000N
Product Family	PTFE
Recommended Use	Gasket Material.
Restrictions on Use	Maximum service temperature should not exceed 260°C (500°F).
Manufacturer	Triangle Fluid Controls Ltd., 399 College St E., Belleville, Ontario, K8N 5S7, Chett Norton, 613-968-1100, www.trianglefluid.com
Emergency Phone No.	Triangle Fluid Controls Ltd., 613-968-1100, 8 am - 5pm EST
SDS No.	0017

SECTION 2. HAZARD IDENTIFICATION

Classification

Not classified under any hazard class.

Label Elements

Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Polytetrafluoroethylene	9002-84-0	70-80	
Fibrous glass	65997-17-3	20-30	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

The product is not likely to be hazardous by skin contact, but washing the skin after use is advisable.

Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

Not applicable (gas). Get medical advice or attention if you feel unwell or are concerned.

First-aid Comments

Treat symptomatically. Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

If in eyes: may cause mild irritation.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Water fog, foam, dry chemical powder or carbon dioxide (CO2).

Unsuitable Extinguishing Media

Do use a water stream to extinguish, as this could spread the fire.

Specific Hazards Arising from the Product

Heating increases the release of toxic vapour.
In a fire, the following hazardous materials may be generated: toxic chemicals; corrosive hydrogen fluoride. Hydrogen fluoride fumes released during a fire can react with water to form hydrofluoric acid. Wear neoprene gloves when handling waste from fire.

Special Protective Equipment and Precautions for Fire-fighters

Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours.
Self-contained breathing devices and protective clothing must be worn in case of fire. No unusual fire or explosion hazards noted.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Avoid sanding, grinidng or other abrasive actions. Dust created for these actions must be captured by wet wiping or with a HEPA filtration equipped vacuum. Do not dry sweep, or blow dust with blower or compressed air. Avoid breathing dust and contamination of cigarettes or tobacco with dust from this material.

Environmental Precautions

No special precautions are necessary.

Methods and Materials for Containment and Cleaning Up

No special clean-up methods are necessary.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Conditions for Safe Storage

No special requirements for storage area. Comply with all applicable health and safety regulations, fire and building codes.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	**TWA**	**STEL**	**TWA**	**Ceiling**	**8-hr TWA**	**TWA**
Fibrous glass	5 mg/m3 **					

Appropriate Engineering Controls

General ventilation is usually adequate.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

If material is being handled when hot, use heat resistant gloves.

Respiratory Protection

Use particulate filter respirator for specific particulate concentrations exceeding the Occupational Exposure Limits.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	White.
Odour	Not applicable
Odour Threshold	Not applicable
Melting Point/Freezing Point	327 ºC (621 ºF) (melting)
Initial Boiling Point/Range	Not applicable
Flash Point	Not applicable
Flammability (solid, gas)	Not available
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	Not available
Solubility	Insoluble in water
Auto-ignition Temperature	520 - 560 ºC (968 - 1040 ºF)
Decomposition Temperature	260 ºC (500 ºF)
Viscosity	Not applicable (kinematic); Not applicable (dynamic)

Other Information

Physical State	Solid
Electrical Conductivity	Not available
Vapour Pressure at 50 deg C	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources. Temperatures above 260.0 ºC (500.0 ºF)

Incompatible Materials

Molten alkali metals (e.g. sodium, potassium or sodium-potassium alloy), fluorine, chlorine trifluoride, strong fluorinating agents and sodium hydroxide (reacts above 300°C/572°F).

Hazardous Decomposition Products

Hydrogen fluoride, carbon tetrafluoride, carbonyl fluoride and tetrafluoroethylene monomer can form if PTFE is overheated or burned. Amounts will vary depending on the specific conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Inhalation; eye contact; ingestion.

Skin Corrosion/Irritation

Not a skin irritant, but washing the skin after use is advisable.

Serious Eye Damage/Irritation

Rinse with water. Get medical attention if irritation is observed.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Not likely to be hazardous by inhalation. If exposed to fumes from ignition or combustion of product, move to fresh air. Consult physician symptoms persist.
In general, high concentrations of low toxicity dusts may cause coughing and mild, temporary irritation. Many cases of flu-like disorder called "polymer fume fever", a termporary flu-like illness with chills, fever and sometimes cough, of approx. 24 hours duration may arise. These symptoms have been reported following exposure to chemicals formed when PTFE is heated to a temperature of 300°C/572°F. Many cases of "polymer flu fever" have been reported in literature of persistent pulmonary effects in individuals, especially smokers who have repeated episodes of polymer fume fever. Due to complicating factors, such as mixed exposures and smoking history, these finds are uncertain. Small amounts of hydrogen fluoride, carbon tetrafluoride, carbonyl fluoride and tetrafluoroethylene monomer can form if PTFE is overheated or burned.

Skin Absorption

Not harmful.

Ingestion

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

The product is not classified as environmentally hazardous. However, this does not include the possibility that large of frequent spills can have a harmful or damaging effect on the environment.

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Other Adverse Effects

No other adverse effects such as ozone depletion, photochemical ozone creation, endocrine disruption or global warming potential are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with all applicable municipal, provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Listed on the DSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION

SDS Prepared By	Triangle Fluid Controls Ltd.
Phone No.	613-968-1100
Date of Last Revision	March 07, 2017
Disclaimer	The information provided in this SDS is correct and to the best of our knowledge at the date of its publication. The information provided is intended only as a guidance for safe handling, transportation, storage, use and disposal and is not considered a warranty or quality specification. This SDS is intended for the material specifiied and may not be valid for the material used in any other combination or process unless specified in the text.

Durlon® 9002

SECTION 1. IDENTIFICATION

Product Identifier Durlon® 9002
Product Family PTFE
Recommended Use Gasket Material.
Restrictions on Use Maximum service temperature should not exceed 260°C (500°F).
Manufacturer Triangle Fluid Controls Ltd., 399 College St E., Belleville, Ontario, K8N 5S7, Chett Norton, 613-968-1100, www.trianglefluid.com
Emergency Phone No. Triangle Fluid Controls Ltd., 613-968-1100, 8 am - 5pm EST
SDS No. 0020

SECTION 2. HAZARD IDENTIFICATION

Classification

Not classified under any hazard class.

Label Elements

Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Polytetrafluoroethylene	9002-84-0	70-80	
Fibrous glass	65997-17-3	20-30	
C.I. Pigment Blue 28	1345-16-0	0.1-1.5	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

The product is not likely to be hazardous by skin contact, but washing the skin after use is advisable.

Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

Not applicable (gas). Get medical advice or attention if you feel unwell or are concerned.

First-aid Comments

Treat symptomatically. Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

If in eyes: may cause mild irritation.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Water fog, foam, dry chemical powder or carbon dioxide (CO2).

Unsuitable Extinguishing Media

Do use a water stream to extinguish, as this could spread the fire.

Specific Hazards Arising from the Product

Heating increases the release of toxic vapour.
In a fire, the following hazardous materials may be generated: toxic chemicals; corrosive hydrogen fluoride. Hydrogen fluoride fumes released during a fire can react with water to form hydrofluoric acid. Wear neoprene gloves when handling waste from fire.

Special Protective Equipment and Precautions for Fire-fighters

Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours.
Self-contained breathing devices and protective clothing must be worn in case of fire. No unusual fire or explosion hazards noted.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Avoid sanding, grinidng or other abrasive actions. Dust created for these actions must be captured by wet wiping or with a HEPA filtration equipped vacuum. Do not dry sweep, or blow dust with blower or compressed air. Avoid breathing dust and contamination of cigarettes or tobacco with dust from this material.

Environmental Precautions

No special precautions are necessary.

Methods and Materials for Containment and Cleaning Up

No special clean-up methods are necessary.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Conditions for Safe Storage

No special requirements for storage area. Comply with all applicable health and safety regulations, fire and building codes.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	**TWA**	**STEL**	**TWA**	**Ceiling**	**8-hr TWA**	**TWA**
Fibrous glass	5 mg/m3 **					
C.I. Pigment Blue 28	0.02 mg/m3					

Appropriate Engineering Controls

General ventilation is usually adequate.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

If material is being handled when hot, use heat resistant gloves.

Respiratory Protection

Use particulate filter respirator for specific particulate concentrations exceeding the Occupational Exposure Limits.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Blue.
Odour	Not applicable
Odour Threshold	Not applicable
Melting Point/Freezing Point	327 ºC (621 ºF) (melting)
Initial Boiling Point/Range	Not applicable
Flash Point	Not applicable
Flammability (solid, gas)	Not available
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	Not available
Solubility	Insoluble in water
Auto-ignition Temperature	520 - 560 ºC (968 - 1040 ºF)
Decomposition Temperature	260 ºC (500 ºF)
Viscosity	Not applicable (kinematic); Not applicable (dynamic)

Other Information

Physical State	Solid
Electrical Conductivity	Not available
Vapour Pressure at 50 deg C	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources. Temperatures above 260.0 ºC (500.0 ºF)

Incompatible Materials

Molten alkali metals (e.g. sodium, potassium or sodium-potassium alloy), fluorine, chlorine trifluoride, strong fluorinating agents and sodium hydroxide (reacts above 300°C/572°F).

Hazardous Decomposition Products

Hydrogen fluoride, carbon tetrafluoride, carbonyl fluoride and tetrafluoroethylene monomer can form if PTFE is overheated or burned. Amounts will vary depending on the specific conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Inhalation; eye contact; ingestion.

Skin Corrosion/Irritation

Not a skin irritant, but washing the skin after use is advisable.

Serious Eye Damage/Irritation

Rinse with water. Get medical attention if irritation is observed.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Not likely to be hazardous by inhalation. If exposed to fumes from ignition or combustion of product, move to fresh air. Consult physician symptoms persist.
In general, high concentrations of low toxicity dusts may cause coughing and mild, temporary irritation. Many cases of flu-like disorder called "polymer fume fever", a termporary flu-like illness with chills, fever and sometimes cough, of approx. 24 hours duration may arise. These symptoms have been reported following exposure to chemicals formed when PTFE is heated to a temperature of 300°C/572°F. Many cases of "polymer flu fever" have been reported in literature of persistent pulmonary effects in individuals, especially smokers who have repeated episodes of polymer fume fever. Due to complicating factors, such as mixed exposures and smoking history, these finds are uncertain. Small amounts of hydrogen fluoride, carbon tetrafluoride, carbonyl fluoride and tetrafluoroethylene monomer can form if PTFE is overheated or burned.

Skin Absorption

Not harmful.

Carcinogenicity

Group 2B – Possibly carcinogenic to humans.
IARC has classified cobalt and cobalt compounds as possibly carcinogenic to humans (Group 2B, monograph 52). Cobalt Aluminate Blue Spinel pigment is the result of high temperature calcinations of the component substances. Due to its unique crystalline structure the properties of the finished pigment do not necessarily reflect the properties of the component metals or oxides.

Key to Abbreviations

Group 2B = Possibly carcinogenic to humans.

SECTION 12. ECOLOGICAL INFORMATION

The product is not classified as environmentally hazardous. However, this does not include the possibility that large of frequent spills can have a harmful or damaging effect on the environment.

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Other Adverse Effects

No other adverse effects such as ozone depletion, photochemical ozone creation, endocrine disruption or global warming potential are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with all applicable municipal, provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Listed on the DSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION

SDS Prepared By Triangle Fluid Controls Ltd.

Phone No. 613-968-1100

Date of Last Revision March 07, 2017

Disclaimer The information provided in this SDS is correct and to the best of our knowledge at the date of its publication. The information provided is intended only as a guidance for safe handling, transportation, storage, use and disposal and is not considered a warranty or quality specification. This SDS is intended for the material specifiied and may not be valid for the material used in any other combination or process unless specified in the text.

Durlon® 9007

SECTION 1. IDENTIFICATION

Product Identifier Durlon® 9007
Product Family PTFE
Recommended Use Gasket Material.
Restrictions on Use Maximum service temperature should not exceed 260°C (500°F).
Manufacturer Triangle Fluid Controls Ltd., 399 College St E., Belleville, Ontario, K8N 5S7, Chett Norton, 613-968-1100, www.trianglefluid.com
Emergency Phone No. Triangle Fluid Controls Ltd., 613-968-1100, 8 am - 5pm EST
SDS No. 0021

SECTION 2. HAZARD IDENTIFICATION

Classification

Not classified under any hazard class.

Label Elements

Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Polytetrafluoroethylene	9002-84-0	70-80	
Fibrous glass	65997-17-3	20-30	
C.I. Pigment Blue 28	1345-16-0	0.1-1.5	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

The product is not likely to be hazardous by skin contact, but washing the skin after use is advisable.

Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

Not applicable (gas). Get medical advice or attention if you feel unwell or are concerned.

First-aid Comments

Treat symptomatically. Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

If in eyes: may cause mild irritation.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Water fog, foam, dry chemical powder or carbon dioxide (CO2).

Unsuitable Extinguishing Media

Do use a water stream to extinguish, as this could spread the fire.

Specific Hazards Arising from the Product

Heating increases the release of toxic vapour.
In a fire, the following hazardous materials may be generated: toxic chemicals; corrosive hydrogen fluoride. Hydrogen fluoride fumes released during a fire can react with water to form hydrofluoric acid. Wear neoprene gloves when handling waste from fire.

Special Protective Equipment and Precautions for Fire-fighters

Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours.
Self-contained breathing devices and protective clothing must be worn in case of fire. No unusual fire or explosion hazards noted.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Avoid sanding, grinidng or other abrasive actions. Dust created for these actions must be captured by wet wiping or with a HEPA filtration equipped vacuum. Do not dry sweep, or blow dust with blower or compressed air. Avoid breathing dust and contamination of cigarettes or tobacco with dust from this material.

Environmental Precautions

No special precautions are necessary.

Methods and Materials for Containment and Cleaning Up

No special clean-up methods are necessary.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Conditions for Safe Storage

No special requirements for storage area. Comply with all applicable health and safety regulations, fire and building codes.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	**TWA**	**STEL**	**TWA**	**Ceiling**	**8-hr TWA**	**TWA**
Fibrous glass	5 mg/m3 **					
C.I. Pigment Blue 28	0.02 mg/m3					

Appropriate Engineering Controls

General ventilation is usually adequate.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

If material is being handled when hot, use heat resistant gloves.

Respiratory Protection

Use particulate filter respirator for specific particulate concentrations exceeding the Occupational Exposure Limits.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Blue.
Odour	Not applicable
Odour Threshold	Not applicable
Melting Point/Freezing Point	327 ºC (621 ºF) (melting)
Initial Boiling Point/Range	Not applicable
Flash Point	Not applicable
Flammability (solid, gas)	Not available
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	Not available
Solubility	Insoluble in water
Auto-ignition Temperature	520 - 560 ºC (968 - 1040 ºF)
Decomposition Temperature	260 ºC (500 ºF)
Viscosity	Not applicable (kinematic); Not applicable (dynamic)

Other Information

Physical State	Solid
Electrical Conductivity	Not available
Vapour Pressure at 50 deg C	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources. Temperatures above 260.0 ºC (500.0 ºF)

Incompatible Materials

Molten alkali metals (e.g. sodium, potassium or sodium-potassium alloy), fluorine, chlorine trifluoride, strong fluorinating agents and sodium hydroxide (reacts above 300°C/572°F).

Hazardous Decomposition Products

Hydrogen fluoride, carbon tetrafluoride, carbonyl fluoride and tetrafluoroethylene monomer can form if PTFE is overheated or burned. Amounts will vary depending on the specific conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Inhalation; eye contact; ingestion.

Skin Corrosion/Irritation

Not a skin irritant, but washing the skin after use is advisable.

Serious Eye Damage/Irritation

Rinse with water. Get medical attention if irritation is observed.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Not likely to be hazardous by inhalation. If exposed to fumes from ignition or combustion of product, move to fresh air. Consult physician symptoms persist.
In general, high concentrations of low toxicity dusts may cause coughing and mild, temporary irritation. Many cases of flu-like disorder called "polymer fume fever", a termporary flu-like illness with chills, fever and sometimes cough, of approx. 24 hours duration may arise. These symptoms have been reported following exposure to chemicals formed when PTFE is heated to a temperature of 300°C/572°F. Many cases of "polymer flu fever" have been reported in literature of persistent pulmonary effects in individuals, especially smokers who have repeated episodes of polymer fume fever. Due to complicating factors, such as mixed exposures and smoking history, these finds are uncertain. Small amounts of hydrogen fluoride, carbon tetrafluoride, carbonyl fluoride and tetrafluoroethylene monomer can form if PTFE is overheated or burned.

Skin Absorption

Not harmful.

Carcinogenicity

Group 2B – Possibly carcinogenic to humans.
IARC has classified cobalt and cobalt compounds as possibly carcinogenic to humans (Group 2B, monograph 52). Cobalt Aluminate Blue Spinel pigment is the result of high temperature calcinations of the component substances. Due to its unique crystalline structure the properties of the finished pigment do not necessarily reflect the properties of the component metals or oxides.

Key to Abbreviations

Group 2B = Possibly carcinogenic to humans.

SECTION 12. ECOLOGICAL INFORMATION

The product is not classified as environmentally hazardous. However, this does not include the possibility that large of frequent spills can have a harmful or damaging effect on the environment.

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Other Adverse Effects

No other adverse effects such as ozone depletion, photochemical ozone creation, endocrine disruption or global warming potential are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with all applicable municipal, provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Listed on the DSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION

SDS Prepared By Triangle Fluid Controls Ltd.

Phone No. 613-968-1100

Date of Last Revision March 07, 2017

Disclaimer The information provided in this SDS is correct and to the best of our knowledge at the date of its publication. The information provided is intended only as a guidance for safe handling, transportation, storage, use and disposal and is not considered a warranty or quality specification. This SDS is intended for the material specifiied and may not be valid for the material used in any other combination or process unless specified in the text.

Durlon® 9200

SECTION 1. IDENTIFICATION

Product Identifier Durlon® 9200
Product Family PTFE
Recommended Use Gasket Material.
Restrictions on Use Maximum service temperature should not exceed 260°C (500°F).
Manufacturer Triangle Fluid Controls Ltd., 399 College St E., Belleville, Ontario, K8N 5S7, Chett Norton, 613-968-1100, www.trianglefluid.com
Emergency Phone No. Triangle Fluid Controls Ltd., 613-968-1100, 8 am - 5pm EST
SDS No. 0019

SECTION 2. HAZARD IDENTIFICATION

Classification

Not classified under any hazard class.

Label Elements

Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Polytetrafluoroethylene	9002-84-0	60-70	
Barium sulfate	7727-43-7	30-40	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

The product is not likely to be hazardous by skin contact, but washing the skin after use is advisable.

Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

Not applicable (gas). Get medical advice or attention if you feel unwell or are concerned.

First-aid Comments

Treat symptomatically. Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

If in eyes: may cause mild irritation.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Water fog, foam, dry chemical powder or carbon dioxide (CO2).

Unsuitable Extinguishing Media

Do use a water stream to extinguish, as this could spread the fire.

Specific Hazards Arising from the Product

Heating increases the release of toxic vapour.
In a fire, the following hazardous materials may be generated: toxic chemicals; corrosive hydrogen fluoride. Hydrogen fluoride fumes released during a fire can react with water to form hydrofluoric acid. Wear neoprene gloves when handling waste from fire.

Special Protective Equipment and Precautions for Fire-fighters

Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours.
Self-contained breathing devices and protective clothing must be worn in case of fire. No unusual fire or explosion hazards noted.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Avoid sanding, grinidng or other abrasive actions. Dust created for these actions must be captured by wet wiping or with a HEPA filtration equipped vacuum. Do not dry sweep, or blow dust with blower or compressed air. Avoid breathing dust and contamination of cigarettes or tobacco with dust from this material.

Environmental Precautions

No special precautions are necessary.

Methods and Materials for Containment and Cleaning Up

No special clean-up methods are necessary.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Conditions for Safe Storage

No special requirements for storage area. Comply with all applicable health and safety regulations, fire and building codes.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls

General ventilation is usually adequate.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

If material is being handled when hot, use heat resistant gloves.

Respiratory Protection

Use particulate filter respirator for specific particulate concentrations exceeding the Occupational Exposure Limits.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance White.

Odour	Not applicable
Odour Threshold	Not applicable
Melting Point/Freezing Point	327 ºC (621 ºF) (melting)
Initial Boiling Point/Range	Not applicable
Flash Point	Not applicable
Flammability (solid, gas)	Not available
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	Not available
Solubility	Insoluble in water
Auto-ignition Temperature	520 - 560 ºC (968 - 1040 ºF)
Decomposition Temperature	260 ºC (500 ºF)
Viscosity	Not applicable (kinematic); Not applicable (dynamic)

Other Information

Physical State	Solid
Electrical Conductivity	Not available
Vapour Pressure at 50 deg C	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources. Temperatures above 260.0 ºC (500.0 ºF)

Incompatible Materials

Molten alkali metals (e.g. sodium, potassium or sodium-potassium alloy), fluorine, chlorine trifluoride, strong fluorinating agents and sodium hydroxide (reacts above 300°C/572°F).

Hazardous Decomposition Products

Hydrogen fluoride, carbon tetrafluoride, carbonyl fluoride and tetrafluoroethylene monomer can form if PTFE is overheated or burned. Amounts will vary depending on the specific conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Inhalation; eye contact; ingestion.

Skin Corrosion/Irritation

Not a skin irritant, but washing the skin after use is advisable.

Serious Eye Damage/Irritation

Rinse with water. Get medical attention if irritation is observed.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Not likely to be hazardous by inhalation. If exposed to fumes from ignition or combustion of product, move to fresh air. Consult physician symptoms persist.
In general, high concentrations of low toxicity dusts may cause coughing and mild, temporary irritation. Many cases of flu-like disorder called "polymer fume fever", a termporary flu-like illness with chills, fever and sometimes cough, of approx. 24 hours duration may arise. These symptoms have been reported following exposure to chemicals formed when PTFE is heated to a temperature of 300°C/572°F. Many cases of "polymer flu fever" have been reported in literature of persistent pulmonary effects in individuals, especially smokers who have repeated episodes of polymer fume fever. Due to complicating factors, such as mixed exposures and smoking history, these finds are uncertain. Small amounts of hydrogen fluoride, carbon tetrafluoride, carbonyl fluoride and tetrafluoroethylene monomer can form if PTFE is overheated or burned.

Skin Absorption

Not harmful.

Ingestion

Not harmful.

Aspiration Hazard

No information was located.

Respiratory and/or Skin Sensitization

Not a respiratory sensitizer.

Carcinogenicity

Not classifiable as a carcinogen to humans.

Reproductive Toxicity

Development of Offspring

This product is not known to cause reproductive or developmental effects.

Germ Cell Mutagenicity

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

The product is not classified as environmentally hazardous. However, this does not include the possibility that large of frequent spills can have a harmful or damaging effect on the environment.

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Other Adverse Effects

No other adverse effects such as ozone depletion, photochemical ozone creation, endocrine disruption or global warming potential are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with all applicable municipal, provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Listed on the DSL. Not listed on the NDSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION

SDS Prepared By Triangle Fluid Controls Ltd.

Phone No. 613-968-1100

Date of Last Revision March 07, 2017

Disclaimer The information provided in this SDS is correct and to the best of our knowledge at the date of its publication. The information provided is intended only as a guidance for safe handling, transportation, storage, use and disposal and is not considered a warranty or quality specification. This SDS is intended for the material specifiied and may not be valid for the material used in any other combination or process unless specified in the text.

Durlon® 9400

SECTION 1. IDENTIFICATION

Product Identifier Durlon® 9400
Product Family PTFE
Recommended Use Gasket Material.
Restrictions on Use Maximum service temperature should not exceed 260°C (500°F).
Manufacturer Triangle Fluid Controls Ltd., 399 College St E., Belleville, Ontario, K8N 5S7, Chett Norton, 613-968-1100, www.trianglefluid.com
Emergency Phone No. Triangle Fluid Controls Ltd., 613-968-1100, 8 am - 5pm EST
SDS No. 0048
Date of Preparation May 31, 2017

SECTION 2. HAZARD IDENTIFICATION

Classification

Not classified under any hazard class.

Label Elements

Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Polytetrafluoroethylene	9002-84-0	70-80		PTFE
Coke (petroleum), calcined	64743-05-1	20-30		Carbon Powder

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

The product is not likely to be hazardous by skin contact, but washing the skin after use is advisable.

Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

Not applicable (gas). Get medical advice or attention if you feel unwell or are concerned.

First-aid Comments

Treat symptomatically. Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

If in eyes: may cause mild irritation.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Water fog, foam, dry chemical powder or carbon dioxide (CO2).

Unsuitable Extinguishing Media

Do use a water stream to extinguish, as this could spread the fire.

Specific Hazards Arising from the Product

Heating increases the release of toxic vapour.
In a fire, the following hazardous materials may be generated: toxic chemicals; corrosive hydrogen fluoride. Hydrogen fluoride fumes released during a fire can react with water to form hydrofluoric acid. Wear neoprene gloves when handling waste from fire.

Special Protective Equipment and Precautions for Fire-fighters

Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours.
Self-contained breathing devices and protective clothing must be worn in case of fire. No unusual fire or explosion hazards noted.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Avoid sanding, grinidng or other abrasive actions. Dust created for these actions must be captured by wet wiping or with a HEPA filtration equipped vacuum. Do not dry sweep, or blow dust with blower or compressed air. Avoid breathing dust and contamination of cigarettes or tobacco with dust from this material.

Environmental Precautions

No special precautions are necessary.

Methods and Materials for Containment and Cleaning Up

No special clean-up methods are necessary.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Conditions for Safe Storage

No special requirements for storage area. Comply with all applicable health and safety regulations, fire and building codes.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate Engineering Controls

General ventilation is usually adequate.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

If material is being handled when hot, use heat resistant gloves.

Respiratory Protection

Use particulate filter respirator for specific particulate concentrations exceeding the Occupational Exposure Limits.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Black.
Odour	Not applicable
Odour Threshold	Not applicable
Melting Point/Freezing Point	327 ºC (621 ºF) (melting)
Initial Boiling Point/Range	Not applicable
Flash Point	Not applicable
Flammability (solid, gas)	Not available
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	Not available
Solubility	Insoluble in water
Auto-ignition Temperature	520 - 560 ºC (968 - 1040 ºF)
Decomposition Temperature	260 ºC (500 ºF)
Viscosity	Not applicable (kinematic); Not applicable (dynamic)

Other Information

Physical State	Solid
Electrical Conductivity	Not available
Vapour Pressure at 50 deg C	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources. Temperatures above 260.0 ºC (500.0 ºF)

Hazardous Decomposition Products

Thermal decomposition of product above 300°C (572°F), can create Carbonyl fluoride, which combines with air and moisture and hdrolyses to Hydrogen Fluoride and Carbon Dioxide. Other PTFE degradation products include; perfluoroisobutylene, tetrafluoroethylene, hexafluoropropylene, carbon monoxide and trifluoromethane.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Inhalation; eye contact; ingestion.

Skin Corrosion/Irritation

Not a skin irritant, but washing the skin after use is advisable.

Serious Eye Damage/Irritation

Rinse with water. Get medical attention if irritation is observed.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Not likely to be hazardous by inhalation. If exposed to fumes from ignition or combustion of product, move to fresh air. Consult physician symptoms persist.
In general, high concentrations of low toxicity dusts may cause coughing and mild, temporary irritation. Many cases of flu-like disorder called "polymer fume fever", a termporary flu-like illness with chills, fever and sometimes cough, of approx. 24 hours duration may arise. These symptoms have been reported following exposure to chemicals formed when PTFE is heated to a temperature of 300°C/572°F. Many cases of "polymer flu fever" have been reported in literature of persistent pulmonary effects in individuals, especially smokers who have repeated episodes of polymer fume fever. Due to complicating factors, such as mixed exposures and smoking history, these finds are uncertain. Small amounts of hydrogen fluoride, carbon tetrafluoride, carbonyl fluoride and tetrafluoroethylene monomer can form if PTFE is overheated or burned.

Skin Absorption

Not harmful.

Ingestion

Not harmful.

Aspiration Hazard

No information was located.

Respiratory and/or Skin Sensitization

Not a respiratory sensitizer.

Carcinogenicity

Not classifiable as a carcinogen to humans.

Reproductive Toxicity

Development of Offspring

This product is not known to cause reproductive or developmental effects.

Germ Cell Mutagenicity

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

The product is not classified as environmentally hazardous. However, this does not include the possibility that large of frequent spills can have a harmful or damaging effect on the environment.

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Other Adverse Effects

No other adverse effects such as ozone depletion, photochemical ozone creation, endocrine disruption or global warming potential are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with all applicable municipal, provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Listed on the DSL. Not listed on the NDSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION

NFPA Rating **Health - 2** **Flammability - 1** **Instability - 0**

SDS Prepared By Triangle Fluid Controls Ltd.

Phone No. 613-968-1100

Date of Preparation May 31, 2017

Disclaimer The information provided in this SDS is correct and to the best of our knowledge at the date of its publication. The information provided is intended only as a guidance for safe handling, transportation, storage, use and disposal and is not considered a warranty or quality specification. This SDS is intended for the material specifiied and may not be valid for the material used in any other combination or process unless specified in the text.

Durlon® 9600, Durlon® Joint Sealant

SECTION 1. IDENTIFICATION

Product Identifier	Durlon® 9600, Durlon® Joint Sealant
Product Family	PTFE
Recommended Use	Gasket Material.
Restrictions on Use	Maximum service temperature should not exceed 316°C (600°F).
Manufacturer	Triangle Fluid Controls Ltd., 399 College St E., Belleville, Ontario, K8N 5S7, Chett Norton, 613-968-1100, www.trianglefluid.com
Emergency Phone No.	Triangle Fluid Controls Ltd., 613-968-1100, 8 am - 5pm EST
SDS No.	0039
Date of Preparation	May 31, 2017

SECTION 2. HAZARD IDENTIFICATION

Classification

Not classified under any hazard class.

Label Elements

Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Polytetrafluoroethylene	9002-84-0	100		

Notes

For Durlon® Joint Sealant, PSA is not considered as a hazardous material in normal use as defined in 29 CFR 1910.1200 and is composed of ;ess tjam 10% of the end product.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

The product is not likely to be hazardous by skin contact, but washing the skin after use is advisable.

Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

Not applicable (gas). Get medical advice or attention if you feel unwell or are concerned.

First-aid Comments

Treat symptomatically. Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

If in eyes: may cause mild irritation.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Water fog, foam, dry chemical powder or carbon dioxide (CO2).

Unsuitable Extinguishing Media

Do use a water stream to extinguish, as this could spread the fire.

Specific Hazards Arising from the Product

Heating increases the release of toxic vapour.
In a fire, the following hazardous materials may be generated: toxic chemicals; corrosive hydrogen fluoride. Hydrogen fluoride fumes released during a fire can react with water to form hydrofluoric acid. Wear neoprene gloves when handling waste from fire.

Special Protective Equipment and Precautions for Fire-fighters

Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours.
Self-contained breathing devices and protective clothing must be worn in case of fire. No unusual fire or explosion hazards noted.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Avoid sanding, grinidng or other abrasive actions. Dust created for these actions must be captured by wet wiping or with a HEPA filtration equipped vacuum. Do not dry sweep, or blow dust with blower or compressed air. Avoid breathing dust and contamination of cigarettes or tobacco with dust from this material. See section 4 for further information.

Environmental Precautions

No special precautions are necessary.

Methods and Materials for Containment and Cleaning Up

No special clean-up methods are necessary.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Conditions for Safe Storage

No special requirements for storage area. Comply with all applicable health and safety regulations, fire and building codes.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls

General ventilation is usually adequate.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

If material is being handled when hot, use heat resistant gloves.

Respiratory Protection

Use particulate filter respirator for specific particulate concentrations exceeding the Occupational Exposure Limits.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	White.
Odour	Not applicable
Odour Threshold	Not applicable
Melting Point/Freezing Point	327 ºC (621 ºF) (melting)
Initial Boiling Point/Range	Not applicable
Flash Point	Not applicable
Flammability (solid, gas)	Not available
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	Not available
Solubility	Insoluble in water
Auto-ignition Temperature	520 - 560 ºC (968 - 1040 ºF)
Decomposition Temperature	260 ºC (500 ºF)
Viscosity	Not applicable (kinematic); Not applicable (dynamic)

Other Information

Physical State	Solid
Electrical Conductivity	Not available
Vapour Pressure at 50 deg C	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources. Temperatures above 260.0 ºC (500.0 ºF)

Incompatible Materials

Molten alkali metals (e.g. sodium, potassium or sodium-potassium alloy), fluorine, chlorine trifluoride, strong fluorinating agents and sodium hydroxide (reacts above 300°C/572°F).

Hazardous Decomposition Products

Hydrogen fluoride, carbon tetrafluoride, carbonyl fluoride and tetrafluoroethylene monomer can form if PTFE is overheated or burned. Amounts will vary depending on the specific conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Inhalation; eye contact; ingestion.

Skin Corrosion/Irritation

Not a skin irritant, but washing the skin after use is advisable.

Serious Eye Damage/Irritation

Rinse with water. Get medical attention if irritation is observed.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Not likely to be hazardous by inhalation. If exposed to fumes from ignition or combustion of product, move to fresh air. Consult physician symptoms persist.
In general, high concentrations of low toxicity dusts may cause coughing and mild, temporary irritation. Many cases of flu-like disorder called "polymer fume fever", a termporary flu-like illness with chills, fever and sometimes cough, of approx. 24 hours duration may arise. These symptoms have been reported following exposure to chemicals formed when PTFE is heated to a temperature of 300°C/572°F. Many cases of "polymer flu fever" have been reported in literature of persistent pulmonary effects in individuals, especially smokers who have repeated episodes of polymer fume fever. Due to complicating factors, such as mixed exposures and smoking history, these finds are uncertain. Small amounts of hydrogen fluoride, carbon tetrafluoride, carbonyl fluoride and tetrafluoroethylene monomer can form if PTFE is overheated or burned.

Skin Absorption

Not harmful.

Ingestion

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

The product is not classified as environmentally hazardous. However, this does not include the possibility that large of frequent spills can have a harmful or damaging effect on the environment.

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Other Adverse Effects

No other adverse effects such as ozone depletion, photochemical ozone creation, endocrine disruption or global warming potential are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with all applicable municipal, provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Listed on the DSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION

SDS Prepared By	Triangle Fluid Controls Ltd.
Phone No.	613-968-1100
Date of Preparation	May 31, 2017
Date of Last Revision	May 31, 2017
Disclaimer	The information provided in this SDS is correct and to the best of our knowledge at the date of its publication. The information provided is intended only as a guidance for safe handling, transportation, storage, use and disposal and is not considered a warranty or quality specification. This SDS is intended for the material specifiied and may not be valid for the material used in any other combination or process unless specified in the text.

Durlon® 5000, 5300, 7900, 7910, 7925, 7950, 8300, 8400, 8500, 8600, 8700, 8900

SECTION 1: IDENTIFICATION DU PRODUIT CHIMIQUE ET DE LA COMPAGNIE

Identificateur du produit	Durlon® 5000, 5300, 7900, 7910, 7925, 7950, 8300, 8400, 8500, 8600, 8700, 8900
Famille du produit	Compressed Non Asbestos
Fabricant	Durabla Canada Ltd., 293 University Avenue PO Box 696, Belleville, ON
Identificateur du fournisseur	Triangle Fluid Controls Ltd., 399 College St E., Belleville, Ontario, K8N 5S7, Chett Norton, 613-968-1100, www.trianglefluid.com
Numéro de téléphone d'urgence	Triangle Fluid Controls Ltd., 613-968-1100, 8 am - 5pm EST
Numéro de la FS	0028
Date de préparation	le 20 mars, 2017

SECTION 2: IDENTIFICATION DES DANGERS

Classification

Non classifié dans une classe de danger.

Éléments d'étiquetage

Sans objet

SECTION 3: COMPOSITION/INFORMATION SUR LES INGRÉDIENTS

Nom chimique	Numéro de CAS	%	Autres identificateurs
Aluminum Silicate	1332-58-7	20-60	
Calcium Metasilicate	13983-17-0	10-30	
Crystalline Silica	14808-60-7	<1	
Zinc oxide	1314-13-2	<1	
Carbon black	1333-86-4	<1	

SECTION 4: PREMIERS SOINS

Mesures de premiers soins

Inhalation

Transporter à l'air frais.

Contact avec la peau

Rincer doucement et en profondeur à l'eau tiède avec un savon doux pendant 5 minutes.

Contact avec les yeux

Rincer les yeux contaminés à l'eau tiède, en douceur, pendant 5 minutes, tout en maintenant les paupières ouvertes. Si l'irritation des yeux persiste, demander un avis médical ou consulter un médecin.

Ingestion

Consulter un médecin si vous vous sentez mal ou si vous êtes inquiet.

Commentaires sur les premiers soins

En cas d'irritation ou de persistance de toute voie d'exposition, cesser immédiatement l'utilisation et consulter un médecin. Apporter la fiche de données de sécurité pour consulter un médecin.

SECTION 5: MESURES À PRENDRE EN CAS D'INCENDIE

Extinguishing Media

Agents extincteurs appropriés

Brouillard d'eau, mousse, poudre chimique sèche ou dioxyde de carbone (CO2).

Dangers spécifiques du produit

Non sensible à une décharge statique.

Équipements de protection spéciaux et précautions spéciales pour les pompiers

Des dispositifs de respiration autonomes et des vêtements de protection doivent être portés en cas d'incendie. Si possible, empêcher les eaux de ruissellement de pénétrer dans les égouts pluviaux, dans les plans d'eau ou dans d'autres zones sensibles à l'environnement.

SECTION 6: MESURES À PRENDRE EN CAS DE DÉVERSEMENT ACCIDENTEL

Précautions personnelles

Placez le produit déversé (poussière) dans un récipient pour élimination. Éliminer tous les déchets conformément aux lois fédérales, provinciales, étatiques ou locales.

Précautions relatives à l'environnement

Aucune précaution particulière n'est nécessaire.

SECTION 7: MANUTENTION ET ENTREPOSAGE

Manutention

Aucune précaution relative à la manutention n'est nécessaire. Les précautions suivantes constituent des pratiques exemplaires : éviter de respirer le produit; éviter tout contact cutané et oculaire; se laver les mains après la manutention.

Entreposage

Entreposer dans un endroit frais et sec à l'abri de la lumière directe du soleil pour maximiser la durée de conservation.

SECTION 8: CONTRÔLE DE L'EXPOSITION/PROTECTION INDIVIDUELLE

Limites d'exposition

	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Nom chimique	**TWA**	**STEL**	**TWA**	**Ceiling**	**8-hr TWA**	**TWA**
Aluminum Silicate	2 mg/m3		15 mg/m3			
Calcium Metasilicate	15 mg/m3		5 mg/m3			
Crystalline Silica	0.025 mg/m3		10 mg/m3			
Zinc oxide	10 mg/m3		15 mg/m3			
Carbon black	3.5 mg/m3		3.5 mg/m3			

Contrôles d'ingénierie

La ventilation générale est habituellement adéquate. Si de la poussière ou des vapeurs sont générées pendant l'utilisation, utiliser des gaz d'échappement locaux en combinaison avec une ventilation générale si nécessaire pour éliminer les fumées / poussières de la zone de respiration du travailleur et pour assurer une exposition ne dépassant pas les limites applicables.

Équipement de protection individuelle

Protection des yeux et du visage

Non requis, mais le port de lunette de sécurité ou de lunettes de protection contre les produits chimiques constitue une pratique exemplaire.

Protection de la peau

Non requis, si le produit est utilisé selon les directives. Porter des vêtements de protection contre les produits chimiques (p. ex. gants, tabliers, bottes).

Protection des voies respiratoires

Habituellement non requis si le produit est utilisé selon les directives. Utiliser un appareil de protection respiratoire à filtre à particules pour des concentrations spécifiques de particules dépassant les limites d'exposition professionnelle.

SECTION 9: PROPRIÉTÉS PHYSIQUES ET CHIMIQUES

Propriétés physiques et chimiques de base

Odeur	Pas disponible
pH	Sans objet
Point de fusion/Point de congélation	Pas disponible (fusion)
Point d'ébullition	Pas disponible
Taux d'évaporation	Sans objet
Tension de vapeur	Sans objet
Densité de vapeur	Pas disponible
Densité relative (eau = 1)	1.2 - 1.8
Solubilité	Insoluble dans l'eau

Autres informations

État physique	Solide

SECTION 10: STABILITÉ ET RÉACTIVITÉ

Réactivité

Non réactif dans des conditions normales d'utilisation.

Conditions à éviter

Hautes températures. Flammes nues, étincelles, décharge électrostatique, chaleur et autres sources d'ignition.

Matières incompatibles

Agents oxydants (p. ex. peroxydes), agents réducteurs (p. ex. hydroquinone).

Produits de décomposition dangereux

Monoxyde de carbone. Cyanure d'hydrogène et chlorure d'hydrogène en petites quantités.

SECTION 11: DONNÉES TOXICOLOGIQUES

Corrosion/Irritation cutanée

Le contact avec ce produit peut irriter la peau exposée et les yeux non irritants pour la peau, mais il est recommandé de laver la peau après usage.

Toxicité pour la reproduction

Développement de la progéniture

Aucun renseignement n'a été trouvé.

SECTION 12: DONNÉES ÉCOLOGIQUES

Écotoxicité

Aucun renseignement n'a été trouvé.

SECTION 13: DONNÉES SUR L'ÉLIMINATION

Élimination

Éliminer conformément à tous les règlements municipaux, provinciaux et fédéraux applicables.

SECTION 14: INFORMATIONS SUR LE TRANSPORT

N'est pas régi par le Règlement canadien sur le transport de marchandises dangereuses. N'est pas régi par le Règlement DOT É.-U. N'est pas régi par le Règlement IATA.

Précautions spéciales Sans objet

Transport en vrac aux termes de l'annexe II de la Convention MARPOL 73/78 et du Recueil IBC

Sans objet

SECTION 15: INFORMATIONS SUR LA RÉGLEMENTATION

Réglementation relative à la sécurité, à la santé et à l'environnement

Canada

Classification SIMDUT 1988

Il ne s'agit pas d'un produit contrôlé selon le SIMDUT.

LCPE - Inventaire national des rejets de polluants (INRP)

Aucun composant de ce produit ne fait partie des listes de substances de première priorité de la LCPE.

États-Unis

Toxic Substances Control Act (TSCA) Section 8(b)

Tous les ingrédients figurent sur l'inventaire de la TSCA.

Autres listes réglementaires des É-U

Ce produit ne contient aucun composant chimique ayant des numéros CAS connus qui dépassent le seuil (De Minimis) des niveaux de déclaration établis par la SARA Titre III, Section 313.

SECTION 16: RENSEIGNEMENTS SUPPLÉMENTAIRES

Date de préparation	le 20 mars, 2017
Indicateurs de révision	Le contenu suivant de la FDS a été modifié le 20 mars, 2017: Section 8 - Contrôle de l'exposition/protection individuelle; Limites d'exposition. Le contenu suivant de la FDS a été modifié le 20 mars, 2017: Section 8 - Contrôle de l'exposition/protection individuelle; Limites d'exposition. Le contenu suivant de la FDS a été modifié le 20 mars, 2017: Section 8 - Contrôle de l'exposition/protection individuelle; Limites d'exposition. Le contenu suivant de la FDS a été modifié le 20 mars, 2017: Section 8 - Contrôle de l'exposition/protection individuelle; Limites d'exposition. Le contenu suivant de la FDS a été modifié le 20 mars, 2017: Section 8 - Contrôle de l'exposition/protection individuelle; Limites d'exposition. Le contenu suivant de la FDS a été modifié le 20 mars, 2017: Section 8 - Contrôle de l'exposition/protection individuelle; Limites d'exposition.
Avis	Les renseignements fournis dans la présente fiche de données de sécurité sont exacts et, à notre connaissance, à la date de sa publication. Les informations fournies ne sont que des indications pour la manipulation, le transport, le stockage, l'utilisation et l'élimination en toute sécurité et ne sont pas considérées comme une garantie ou des spécifications de qualité. Cette FDS est destinée au matériel spécifié et peut ne pas être valable pour le matériel utilisé dans toute autre combinaison ou processus, sauf si spécifié dans le texte.

Durlon® Flexible Graphite

SECTION 1. IDENTIFICATION

Product Identifier Durlon® Flexible Graphite

Product Family Semi-Metallic

Manufacturer Triangle Fluid Controls Ltd., 399 College St E., Belleville, Ontario, K8N 5S7, Chett Norton, 613-968-1100, www.trianglefluid.com

Emergency Phone No. Triangle Fluid Controls Ltd., 613-968-1100, 8 am - 5pm EST

SDS No. 0041

SECTION 2. HAZARD IDENTIFICATION

Classification

Not classified under any hazard class.

Label Elements

Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Graphite	7727-42-5	>95		
Crystalline Silica	14808-60-7	<0.8		

Notes

Product grades: FGS95, FGL316, FGT316 & FGM316 available in sheets, rolls or gaskets.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Do not breathe dust. If exposed to high levels of dust, remove to fresh air. rinmk water and clear throat. Blow nose to clear dust.

Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Get medical advice or attention if you feel unwell or are concerned.

Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open.

Ingestion

Give large quantities of water. Get medical advice or attention if you feel unwell or are concerned.

Immediate Medical Attention and Special Treatment

Special Instructions

Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire. Water fog, foam, dry chemical powder or carbon dioxide (CO_2).

Specific Hazards Arising from the Product

Compositions of by-products from the result of fire will vary depending on the specific conditions. Hazardous gases and vapour include dense smoke and carbon monoxide. There may be others unknown to us.

Special Protective Equipment and Precautions for Fire-fighters

Self-contained breathing devices and protective clothing must be worn in case of fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

No special precautions are necessary. Place spilled material (dust) in a container for disposal. Dispose of all wastes in accordance with federal, provincial, state or local laws.

Environmental Precautions

No special precautions are necessary. It is good practice to prevent releases into the environment.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. Dust should be gathered by wet wiping or vacuuming with HEPA filtration equpped vacuum cleaners. Do not dry sweep or blow dust with compressed air. Graphite dusts are electrically conductive and accumulation of dust may cause shorting of electric circuits and switches. Personnel involved with handling this product should be wearing appropriate personal protective equipment as outlined in section 8.

Conditions for Safe Storage

No special requirements for storage area. Comply with all applicable health and safety regulations, fire and building codes. Protect from conditions listed in Conditions to Avoid in Section 10 (Stability and Reactivity).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	**TWA**	**STEL**	**TWA**	**Ceiling**	**8-hr TWA**	**TWA**
Graphite	5 mg/m3					

US ACGIH Threshold Limit Values
Graphite (CAS 7782-42-5) TWA - 2 mg/m3, respirable fraction
Crystalline Silica (CAS 14808-60-7) TWA - 0.025 mg/m3, respirable fraction

Appropriate Engineering Controls

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

Protective gloves are recommended when handling.

Respiratory Protection

Use particulate filter respirator for specific particulate concentrations exceeding the Occupational Exposure Limits.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Black powder.
Odour	Not applicable
Melting Point/Freezing Point	Not applicable (melting); Not applicable (freezing)
Vapour Pressure	Not applicable
Relative Density (water = 1)	0.8 - 1.8
Solubility	Insoluble in water

Other Information

Physical State	Solid

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Conditions to Avoid

Avoid contact with highly concentrated acids. Dust is combustable, avoid sources of ignition and strong oxidizing agents. This product should not be used in oxidizing environments.

Incompatible Materials

Oxidizing agents (e.g. peroxides), reducing agents (e.g. hydroquinone).

Hazardous Decomposition Products

By-products from the result of a fire will vary depending on the specific conditions. Hazardous gases/vapours may include dense smoke and carbon monoxide. There may be others unknown to us.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Acute Toxicity

LD50 (Oral) >10,000 mg/kg (Rat)

Skin Corrosion/Irritation

Not a skin irritant, but washing the skin after use is advisable.

Serious Eye Damage/Irritation

Rinse with water. Get medical attention if irritation is observed.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Not likely to be hazardous by inhalation. If exposed to fumes from ignition or combustion of product, move to fresh air. Consult physician symptoms persist.
Prolonged and repeated overexposure to dust can lead to pneumoconiosis. Prolonged exposure is associated with lung cancer. Crystalline silica: Overexposure to the respirable dist of crystalline silica (quartz of crostobalite, less than or equal to 5 microns in size) may lead to silicosis in humans, which is a progressive and irreversible lung disease.

Carcinogenicity

(Crystalline Silica) Has been classified by IARC, NTP and ACGIH as a known human carcinogen and suspected human carcinogen respectively.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No information was located.

Persistence and Degradability

No information was located.

Bioaccumulative Potential

This product and its degradation products are not expected to bioaccumulate. Product is insoluble in water.

Mobility in Soil

No information was located.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with all applicable municipal, provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

None known.

Canada

WHMIS 1988 Classification

Not a WHMIS controlled product.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Not available.

CEPA - National Pollutant Release Inventory (NPRI)

Not available.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

Not regulated.

SECTION 16. OTHER INFORMATION

NFPA Rating	**Health - 0**	**Instability - 0**
SDS Prepared By	Triangle Fluid Controls Ltd.	
Phone No.	613-968-1100	
Date of Preparation	May 31, 2017	
Disclaimer	The information provided in this SDS is correct and to the best of our knowledge at the date of its publication. The information provided is intended only as a guidance for safe handling, transportation, storage, use and disposal and is not considered a warranty or quality specification. This SDS is intended for the material specifiied and may not be valid for the material used in any other combination or process unless specified in the text.	

Durlon® HT1000

SECTION 1. IDENTIFICATION

Product Identifier	Durlon® HT1000
Product Family	Compressed Non Asbestos
Recommended Use	Gasket Material.
Restrictions on Use	Maximum service temperature should not exceed 1000°C (1832°F).
Manufacturer	Durabla Canada Ltd., 293 University Avenue PO Box 696, Belleville, ON
Supplier Identifier	Triangle Fluid Controls Ltd., 399 College St E., Belleville, Ontario, K8N 5S7, Chett Norton, 613-968-1100, www.trianglefluid.com
Emergency Phone No.	Triangle Fluid Controls Ltd., 613-968-1100, 8 am - 5pm EST
SDS No.	0042
Date of Preparation	May 31, 2017

SECTION 2. HAZARD IDENTIFICATION

Classification

Not classified under any hazard class.

Label Elements

Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Contains no hazardous ingredients.

Notes

Product grades: S90, L316 or T316 available in sheets, rolls or cut gaskets.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air.

Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes.

Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

Get medical advice or attention if you feel unwell or are concerned.

First-aid Comments

If irritation occurs or persists from any route of exposure, discontinue use immediately and consult physician. Bring Safety Data Sheet for physician consultation.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Water mist, foam, dry chemical or carbon dioxide (CO2). Alcohol resistant foams (ATC type) are preferred.

Specific Hazards Arising from the Product

Not sensitive to static discharge.

Special Protective Equipment and Precautions for Fire-fighters

Self-contained breathing apparatus and protective clothing must be worn in case of fire. If possible, prevent runoff from entering storm sewers, water bodies or other environmentally sensitive areas.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Place spilled material (dust) in a container for disposal. Dispose of all waste according to federal, state, provincial or local laws.

Environmental Precautions

No special precautions are necessary.

Other Information

Dispose in accordance with section 8 and 13.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

No special handling precautions are necessary. It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Conditions for Safe Storage

Store in a cool, dry place away from direct sunlight to maximize shelf life.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Not available.

Appropriate Engineering Controls

General ventilation is usually adequate. If dust or fumes are generated during use, use local exhaust in combination with general ventilation as necessary to remove fumes/dust from the worker's breathing zone and to ensure exposures do not exceed applicable limits.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

Not required, if used as directed. Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection

Not normally required if product is used as directed. Use particulate filter respirator for specific particulate concentrations exceeding the Occupational Exposure Limits.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Brown - green.
Odour	Odourless

pH	Not applicable
Melting Point/Freezing Point	Not available (melting)
Initial Boiling Point/Range	Not available
Evaporation Rate	Not applicable
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.7 - 1.9
Solubility	Insoluble in water

Other Information

Physical State	Solid

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.
Maximum transport temperature of 30°C (86°F). Higher temperatures may change the material properties (e.g. flexibility, stickiness).

Conditions to Avoid

None known.

Incompatible Materials

None known.

Hazardous Decomposition Products

In the cause of thermal decomposition at temperatures above 250°C (482°F), toxic gases and vapours may occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation

Contact with this product may irritate exposed skin and non-irritating skin eyes, but it is recommended to wash the skin after use.

Reproductive Toxicity

Development of Offspring

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No information was located.

Persistence and Degradability

No specific data available for this product; however this product is not biodegradable.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

Other Adverse Effects

Not known.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with all applicable municipal, provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

None known.

Canada

WHMIS 1988 Classification

Not a WHMIS controlled product.

CEPA - National Pollutant Release Inventory (NPRI)

No components of this product are listed as CEPA priority substances.

Custom Regulatory 1

A Chemical Safety Assessment has not been carried out.

SECTION 16. OTHER INFORMATION

SDS Prepared By	Triangle Fluid Controls Ltd.
Phone No.	613-968-1100
Date of Preparation	May 31, 2017
Disclaimer	The information provided in this SDS is correct and to the best of our knowledge at the date of its publication. The information provided is intended only as a guidance for safe handling, transportation, storage, use and disposal and is not considered a warranty or quality specification. This SDS is intended for the material specifiied and may not be valid for the material used in any other combination or process unless specified in the text.

Durlon® Spiral Wound Gasket - ETG

SECTION 1. IDENTIFICATION

Product Identifier Durlon® Spiral Wound Gasket - ETG

Product Family Semi-Metallic

Manufacturer Triangle Fluid Controls Ltd., 399 College St E., Belleville, Ontario, K8N 5S7, Chett Norton, 613-968-1100, www.trianglefluid.com

Emergency Phone No. Triangle Fluid Controls Ltd., 613-968-1100, 8 am - 5pm EST

SDS No. 0056

SECTION 2. HAZARD IDENTIFICATION

Classification

Not classified under any hazard class.

Label Elements

Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Graphite	7727-42-5			

Notes

Spiral Wound Gasket with Phlogopite Mica and Graphite Filler.
Guide Ring Material (If Existing): Carbon steel or stainless steel
Inner Ring Material (If Existing): Stainless Steel

Winding Material: Graphite with Stainless Steel

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Do not breathe dust. If exposed to high levels of dust, remove to fresh air. rinmk water and clear throat. Blow nose to clear dust.

Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Get medical advice or attention if you feel unwell or are concerned.

Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open.

Ingestion

Give large quantities of water. Get medical advice or attention if you feel unwell or are concerned.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire. Water fog, foam, dry chemical powder or carbon dioxide (CO2).

Specific Hazards Arising from the Product

Compositions of by-products from the result of fire will vary depending on the specific conditions. Hazardous gases and vapour include dense smoke and carbon monoxide. There may be others unknown to us.

Special Protective Equipment and Precautions for Fire-fighters

Self-contained breathing devices and protective clothing must be worn in case of fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

No special precautions are necessary. Place spilled material (dust) in a container for disposal. Dispose of all wastes in accordance with federal, provincial, state or local laws.

Environmental Precautions

No special precautions are necessary. It is good practice to prevent releases into the environment.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. Dust should be gathered by wet wiping or vacuuming with HEPA filtration equpped vacuum cleaners. Do not dry sweep or blow dust with compressed air. Graphite dusts are electrically conductive and accumulation of dust may cause shorting of electric circuits and switches. Personnel involved with handling this product should be wearing appropriate personal protective equipment as outlined in section 8.

Conditions for Safe Storage

No special requirements for storage area. Comply with all applicable health and safety regulations, fire and building codes. Protect from conditions listed in Conditions to Avoid in Section 10 (Stability and Reactivity).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	**TWA**	**STEL**	**TWA**	**Ceiling**	**8-hr TWA**	**TWA**
Graphite	5 mg/m3					

Appropriate Engineering Controls

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

Protective gloves are recommended when handling.

Respiratory Protection

Use particulate filter respirator for specific particulate concentrations exceeding the Occupational Exposure Limits.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Odour	Not applicable
Melting Point/Freezing Point	Not applicable (melting); Not applicable (freezing)

Vapour Pressure	Not applicable
Relative Density (water = 1)	0.8 - 1.8

Other Information

Physical State	Solid

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Conditions to Avoid

Avoid contact with highly concentrated acids.

Incompatible Materials

Oxidizing agents (e.g. peroxides).

Hazardous Decomposition Products

By-products from the result of a fire will vary depending on the specific conditions. Hazardous gases/vapours may include dense smoke and carbon monoxide. There may be others unknown to us.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Skin Corrosion/Irritation

Not a skin irritant, but washing the skin after use is advisable.

Serious Eye Damage/Irritation

Rinse with water. Get medical attention if irritation is observed.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Not likely to be hazardous by inhalation. If exposed to fumes from ignition or combustion of product, move to fresh air. Consult physician symptoms persist.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No information was located.

Persistence and Degradability

No information was located.

Bioaccumulative Potential

This product and its degradation products are not expected to bioaccumulate. Product is insoluble in water.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with all applicable municipal, provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

None known.

Canada

WHMIS 1988 Classification

Not a WHMIS controlled product.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Not available.

CEPA - National Pollutant Release Inventory (NPRI)

Not available.

SECTION 16. OTHER INFORMATION

SDS Prepared By	Triangle Fluid Controls Ltd.
Phone No.	613-968-1100
Disclaimer	The information provided in this SDS is correct and to the best of our knowledge at the date of its publication. The information provided is intended only as a guidance for safe handling, transportation, storage, use and disposal and is not considered a warranty or quality specification. This SDS is intended for the material specifiied and may not be valid for the material used in any other combination or process unless specified in the text.

Durlon® Spiral Wound Gasket - Flexible Graphite Filled

SECTION 1. IDENTIFICATION

Product Identifier Durlon® Spiral Wound Gasket - Flexible Graphite Filled

Product Family Semi-Metallic

Manufacturer Triangle Fluid Controls Ltd., 399 College St E., Belleville, Ontario, K8N 5S7, Chett Norton, 613-968-1100, www.trianglefluid.com

Emergency Phone No. Triangle Fluid Controls Ltd., 613-968-1100, 8 am - 5pm EST

SDS No. 0030

SECTION 2. HAZARD IDENTIFICATION

Classification

Not classified under any hazard class.

Label Elements

Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Graphite	7727-42-5			

Notes

Spiral Wound Gasket with Graphite Filler.
Guide Ring Material (If Existing): Carbon steel or stainless steel
Inner Ring Material (If Existing): Stainless Steel
Winding Material: Graphite with Stainless Steel

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Do not breathe dust. If exposed to high levels of dust, remove to fresh air. rinmk water and clear throat. Blow nose to clear dust.

Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Get medical advice or attention if you feel unwell or are concerned.

Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open.

Ingestion

Give large quantities of water. Get medical advice or attention if you feel unwell or are concerned.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire. Water fog, foam, dry chemical powder or carbon dioxide (CO2).

Specific Hazards Arising from the Product

Compositions of by-products from the result of fire will vary depending on the specific conditions. Hazardous gases and vapour include dense smoke and carbon monoxide. There may be others unknown to us.

Special Protective Equipment and Precautions for Fire-fighters

Self-contained breathing devices and protective clothing must be worn in case of fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

No special precautions are necessary. Place spilled material (dust) in a container for disposal. Dispose of all wastes in accordance with federal, provincial, state or local laws.

Environmental Precautions

No special precautions are necessary. It is good practice to prevent releases into the environment.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. Dust should be gathered by wet wiping or vacuuming with HEPA filtration equpped vacuum cleaners. Do not dry sweep or blow dust with compressed air. Graphite dusts are electrically conductive and accumulation of dust may cause shorting of electric circuits and switches. Personnel involved with handling this product should be wearing appropriate personal protective equipment as outlined in section 8.

Conditions for Safe Storage

No special requirements for storage area. Comply with all applicable health and safety regulations, fire and building codes. Protect from conditions listed in Conditions to Avoid in Section 10 (Stability and Reactivity).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	**TWA**	**STEL**	**TWA**	**Ceiling**	**8-hr TWA**	**TWA**
Graphite	5 mg/m3					

Appropriate Engineering Controls

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

Protective gloves are recommended when handling.

Respiratory Protection

Use particulate filter respirator for specific particulate concentrations exceeding the Occupational Exposure Limits.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Odour Not applicable

Melting Point/Freezing Point Not applicable (melting); Not applicable (freezing)

Vapour Pressure	Not applicable
Relative Density (water = 1)	0.8 - 1.8

Other Information

Physical State	Solid

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Conditions to Avoid

Avoid contact with highly concentrated acids.

Incompatible Materials

Oxidizing agents (e.g. peroxides).

Hazardous Decomposition Products

By-products from the result of a fire will vary depending on the specific conditions. Hazardous gases/vapours may include dense smoke and carbon monoxide. There may be others unknown to us.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Skin Corrosion/Irritation

Not a skin irritant, but washing the skin after use is advisable.

Serious Eye Damage/Irritation

Rinse with water. Get medical attention if irritation is observed.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Not likely to be hazardous by inhalation. If exposed to fumes from ignition or combustion of product, move to fresh air. Consult physician symptoms persist.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No information was located.

Persistence and Degradability

No information was located.

Bioaccumulative Potential

This product and its degradation products are not expected to bioaccumulate. Product is insoluble in water.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with all applicable municipal, provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

None known.

Canada

WHMIS 1988 Classification

Not a WHMIS controlled product.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Not available.

CEPA - National Pollutant Release Inventory (NPRI)

Not available.

SECTION 16. OTHER INFORMATION

SDS Prepared By	Triangle Fluid Controls Ltd.
Phone No.	613-968-1100
Date of Preparation	March 20, 2017
Disclaimer	The information provided in this SDS is correct and to the best of our knowledge at the date of its publication. The information provided is intended only as a guidance for safe handling, transportation, storage, use and disposal and is not considered a warranty or quality specification. This SDS is intended for the material specifiied and may not be valid for the material used in any other combination or process unless specified in the text.

Durlon® Spiral Wound Gasket - PTFE Filler

SECTION 1. IDENTIFICATION

Product Identifier	Durlon® Spiral Wound Gasket - PTFE Filler
Product Family	Semi-Metallic
Restrictions on Use	Maximum service temperature should not exceed 260°C (500°F).
Manufacturer	Triangle Fluid Controls Ltd., 399 College Street East, Belleville, ON, K8N5S7, Canada, Chett Norton, 613-968-1100, 8am-5pm EST, www.trianglefluid.com
Emergency Phone No.	Chett Norton, 613-968-1100, 8am-5pm EST
Date of Preparation	July 12, 2018

SECTION 2. HAZARD IDENTIFICATION

Classification

Not classified under any hazard class.

Label Elements

Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Polytetrafluoroethylene	9002-84-0	>20		

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

The product is not likely to be hazardous by skin contact, but washing the skin after use is advisable.

Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open.

Ingestion

Get medical advice or attention if you feel unwell or are concerned.

First-aid Comments

Treat symptomatically. Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

If in eyes: may cause irritation.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Water fog, foam, dry chemical powder or carbon dioxide (CO_2).

Specific Hazards Arising from the Product

Heating increases the release of toxic vapour. In a fire, the following hazardous materials may be generated: toxic chemicals; corrosive hydrogen fluoride. Hydrogen fluoride fumes released during a fire can react with water to form hydrofluoric acid. Wear neoprene gloves when handling waste from fire.

Special Protective Equipment and Precautions for Fire-fighters

Before entry, especially into confined areas, use an appropriate monitor to check for toxic gases or vapours. Self-contained breathing devices and protective clothing must be worn in case of fire. No unusual fire or explosion hazards noted.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Avoid sanding, grinding or other abrasive actions. Dust created from these actions must be captured by wet wiping or with a HEPA filtration equipped vacuum. Do not dry sweep, or blow dust with blower or compressed air. Avoid breathing dust and contamination of cigarettes or tobacco with dust from this material.

Environmental Precautions

No special precautions are necessary.

Methods and Materials for Containment and Cleaning Up

No special clean-up methods are necessary.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Conditions for Safe Storage

No special requirements for storage area. Comply with all applicable health and safety regulations, fire and building codes.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

Wear gloves.

Respiratory Protection

Use particulate filter repirator for specific particulate concentrations exceeding the occupational exposure limits.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	White.
Melting Point/Freezing Point	327 ºC (621 ºF) (melting)
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Solubility	Not applicable in water
Auto-ignition Temperature	520 - 560 ºC (968 - 1040 ºF)
Decomposition Temperature	260 ºC (500 ºF)

Other Information

Physical State Solid

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources.

Incompatible Materials

Molten alkali metals (e.g. sodium, potassium or sodium-potassium allow), fluorine, chlorine trifluoride, strong fluorinating agents and soum hydroxide (reacts above 300C/572F).

Hazardous Decomposition Products

Hydrogen fluoride, carbon tetrafluoride, carbonyl fluoride and tetrafluoroethylene monomer can form if PTFE is overheated and or burned. Amounts will vary depending on the specific conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Inhalation; eye contact; ingestion.

Skin Corrosion/Irritation

Not an irritant, but washing the skin after use or contact is advisable.

Serious Eye Damage/Irritation

Rinse with water. Get medical attention if irritation is observed.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Not likely to be hazardous by inhalation. If exposed to fumes from ignition or combustion of product, move to fresh air and consult physician if systems persist.
In general, high concentrations of low toxicity dusts may cause coughing and mild, temporary irriation. Many casesof flu-like disorder called "polymer fume fever", a temporary flu-like illness with chills, fever and sometimes cough of approx 24 hours duration may arise. These symptons have been reported following exposure to chemicals formed with PTFE is heated to a temperature of 300°C/572°F. Many cases of "polymer flu fever" have been reported in literature of persistent pulmonary effects in individuals, especially smokeser who have repeated episodes of "polymer fume fever". Due to complicating factors, such as mixed exposures and smoking history, these findings are uncertain. Small amounts of hydrogen fluoride, carbon tetrafluoride, carbonyl fluoride and tetrafluoroethylene monomer can form if PTFE is overheated or burned.

Skin Absorption

No information was located.

Ingestion

No information was located.

Aspiration Hazard

No information was located.

Respiratory and/or Skin Sensitization

Not likely to be hazardous by inhalation. If exposed to fumes from ignition or combustion of product, move to fresh air. Consult physician symptoms persist. In general, high oncentrations of low toxicity dusts may cause coughing and mild,

temporary irritation. Many cases of flu-like disorder called "polymer fume fever", a termporary flu-like illness with chills, fever and sometimes cough, of approx. 24 hours duration may arise. These symptoms have been reported following exposure to chemicals formed when PTFE is heated to a temperature of 300°C/572°F. Many cases of "polymer flu fever" have been
reported in literature of persistent pulmonary effects in individuals, especially smokers who have repeated episodes of polymer fume fever. Due to complicating factors, such as mixed exposures and smoking history, these finds are uncertain. Small amounts of hydrogen fluoride, carbon tetrafluoride, carbonyl fluoride and tetrafluoroethylene monomer can form if PTFE is overheated or burned.

Carcinogenicity

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

The product is not classified as environmentally hazardous. However, this does not include the possibility that large amounts of frequent spills can have a harmful or damaging effect on the environment.

Ecotoxicity

Studies were not located.

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Other Adverse Effects

No other adverse effects such as ozone depletion, photochemical ozone creation, endocrine disruption or global warming potential are expected from this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with all applicable municipal, provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

None known.

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Listed on the DSL.

SECTION 16. OTHER INFORMATION

NFPA Rating		**Flammability - 1**
	Based on	Polytetrafluoroethylene
SDS Prepared By	CN	
Phone No.	613-968-1100	

Date of Preparation	July 12, 2018
Disclaimer	The information provided in this SDS is correct and to the best of our knowledge at the date of its publication. The information provided is intended only as a guidance for safe handling, transportation, storage, use and disposal and is not considereda warranty or quality specification. This SDS is intended for the material specified and may not be valid for the material used in any other combination or process unless specified in the text.

Durlon® Virgin PTFE

SECTION 1. IDENTIFICATION

Product Identifier	Durlon® Virgin PTFE
Product Family	PTFE
Recommended Use	Gasket Material.
Restrictions on Use	Maximum service temperature should not exceed 260°C (500°F).
Manufacturer	Triangle Fluid Controls Ltd., 399 College St E., Belleville, Ontario, K8N 5S7, Chett Norton, 613-968-1100, www.trianglefluid.com
Emergency Phone No.	Triangle Fluid Controls Ltd., 613-968-1100, 8 am - 5pm EST
SDS No.	0040

SECTION 2. HAZARD IDENTIFICATION

Classification

Not classified under any hazard class.

Label Elements

Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Polytetrafluoroethylene	9002-84-0	100		

Notes

This document covers both virgin material grades: mechanical (reprocessed) and skived material.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

The product is not likely to be hazardous by skin contact, but washing the skin after use is advisable.

Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

Ingestion

Not applicable (gas). Get medical advice or attention if you feel unwell or are concerned.

First-aid Comments

Treat symptomatically. Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

If in eyes: may cause mild irritation.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Water fog, foam, dry chemical powder or carbon dioxide (CO2).

Unsuitable Extinguishing Media

Do use a water stream to extinguish, as this could spread the fire.

Specific Hazards Arising from the Product

Heating increases the release of toxic vapour.
In a fire, the following hazardous materials may be generated: toxic chemicals; corrosive hydrogen fluoride. Hydrogen fluoride fumes released during a fire can react with water to form hydrofluoric acid. Wear neoprene gloves when handling waste from fire.

Special Protective Equipment and Precautions for Fire-fighters

Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours.
Self-contained breathing devices and protective clothing must be worn in case of fire. No unusual fire or explosion hazards noted.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Avoid sanding, grinidng or other abrasive actions. Dust created for these actions must be captured by wet wiping or with a HEPA filtration equipped vacuum. Do not dry sweep, or blow dust with blower or compressed air. Avoid breathing dust and contamination of cigarettes or tobacco with dust from this material.

Environmental Precautions

No special precautions are necessary.

Methods and Materials for Containment and Cleaning Up

No special clean-up methods are necessary.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Conditions for Safe Storage

No special requirements for storage area. Comply with all applicable health and safety regulations, fire and building codes.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls

General ventilation is usually adequate.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

If material is being handled when hot, use heat resistant gloves.

Respiratory Protection

Use particulate filter respirator for specific particulate concentrations exceeding the Occupational Exposure Limits.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	White.
Odour	Not applicable
Odour Threshold	Not applicable
Melting Point/Freezing Point	327 ºC (621 ºF) (melting)
Initial Boiling Point/Range	Not applicable
Flash Point	Not applicable
Flammability (solid, gas)	Not available
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	Not available
Solubility	Insoluble in water
Auto-ignition Temperature	520 - 560 ºC (968 - 1040 ºF)
Decomposition Temperature	260 ºC (500 ºF)
Viscosity	Not applicable (kinematic); Not applicable (dynamic)

Other Information

Physical State	Solid
Electrical Conductivity	Not available
Vapour Pressure at 50 deg C	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources. Temperatures above 260.0 ºC (500.0 ºF)

Incompatible Materials

Molten alkali metals (e.g. sodium, potassium or sodium-potassium alloy), fluorine, chlorine trifluoride, strong fluorinating agents and sodium hydroxide (reacts above 300°C/572°F).

Hazardous Decomposition Products

Hydrogen fluoride, carbon tetrafluoride, carbonyl fluoride and tetrafluoroethylene monomer can form if PTFE is overheated or burned. Amounts will vary depending on the specific conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Inhalation; eye contact; ingestion.

Skin Corrosion/Irritation

Not a skin irritant, but washing the skin after use is advisable.

Serious Eye Damage/Irritation

Rinse with water. Get medical attention if irritation is observed.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Not likely to be hazardous by inhalation. If exposed to fumes from ignition or combustion of product, move to fresh air. Consult physician symptoms persist.
In general, high concentrations of low toxicity dusts may cause coughing and mild, temporary irritation. Many cases of flu-like disorder called "polymer fume fever", a termporary flu-like illness with chills, fever and sometimes cough, of approx. 24 hours duration may arise. These symptoms have been reported following exposure to chemicals formed when PTFE is heated to a temperature of 300°C/572°F. Many cases of "polymer flu fever" have been reported in literature of persistent pulmonary effects in individuals, especially smokers who have repeated episodes of polymer fume fever. Due to complicating factors, such as mixed exposures and smoking history, these finds are uncertain. Small amounts of hydrogen fluoride, carbon tetrafluoride, carbonyl fluoride and tetrafluoroethylene monomer can form if PTFE is overheated or burned.

Skin Absorption

Not harmful.

Ingestion

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

The product is not classified as environmentally hazardous. However, this does not include the possibility that large of frequent spills can have a harmful or damaging effect on the environment.

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility in Soil

No data available.

Other Adverse Effects

No other adverse effects such as ozone depletion, photochemical ozone creation, endocrine disruption or global warming potential are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with all applicable municipal, provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Listed on the DSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION

SDS Prepared By	Triangle Fluid Controls Ltd.
Phone No.	613-968-1100
Date of Last Revision	March 07, 2017
Disclaimer	The information provided in this SDS is correct and to the best of our knowledge at the date of its publication. The information provided is intended only as a guidance for safe handling, transportation, storage, use and disposal and is not considered a warranty or quality specification. This SDS is intended for the material specifiied and may not be valid for the material used in any other combination or process unless specified in the text.