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Subject: Global Automotive Declarative Substances List (GADSL 3/12/2019)

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This document is responsive to the objectives of the Global Automotive Declarative Substance List (GADSL) as defined by the Global Automotive Stakeholders Group (GASG). The GADSL substances list is a voluntary industry initiative designed to ensure integrated, responsible and sustainable product development by automotive manufacturers and their supply chain.

Parker Hannifin Corporation as a worldwide manufacturer and tier supplier is committed to continuous improvements in quality, safety and reduction of environmental impact throughout the product life cycle.

The Parflex Division of Parker Hannifin Corporation manufactures finished products. Parker Parflex principal products sold are made from:

- Steel, stainless steel, brass, copper, aluminum and other metals
- Thermoplastic materials (Polyester, Nylon, Polyvinyl Chloride, Fluoropolymer, Polyurethane, Polyethylene, Polypropylene and proprietary compounds)
- Thermoset materials (Polychloroprene, Acrylonitrile, Ethylene Propylene Diene Monomer elastomers)

For purposes of this document, Parker represents, with the limitations set forth herein, that in the homogeneous materials in its products, the materials either:

- a. Contain no more than 1,000 parts per million (ppm) by weight for lead, mercury, nickel, hexavalent chromium, Polybrominated Biphenyls (PBB) and Polybrominated Diphenyl Ethers (PBDE), including DecaBDE, Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP) or,
- b. Contains no more than 100 ppm by weight for cadmium or,
- c. The homogeneous materials conform to one or more of the exemptions specified in the listed standards (2002/95/EC Annex and/or 2000/53/EC Annex and all associated revisions).

Parker is obligated to inform customers of other Substances of Very High Concern (SVHC) contained within products having substances listed on GADSL or within the listings of other regulations exceeding the threshold limits of 0.1% by weight: These products include:

<u>Product</u>	<u>Candidate SVHC</u>
U, HU series tubing, Nycoil, Legris, NoMar urethane coils	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (CAS 25973-55-1)
Parflex Spiral Guard (PSG)	DecaBromo DiPhenyl Ether (CAS 1163-19-5)
Acrylonitrile elastomer O-rings	Acrylonitrile (CAS 107-13-1)
Brass and Plated steel fittings	Lead (CAS 7439-92-1)
Thermoplastic Hose (adhesive)	Chlorinated hydrocarbons (Methylene Chloride CAS 75-09-2)
Thermoplastic Hose (adhesive)	Toluene (CAS 108-88-3)

Parker products are not designed or anticipated to intentionally release regulated substance under normal use conditions and are therefore exempted from formal registration requirements. Additionally, as an exporter, Parker Parflex has neither the obligation nor the right to directly register chemical substances contained in our products.

Parker products may or may not remain in the final vehicle at the point of sale therefore this document is intended to cover declarative substances and related information flow throughout the automotive value chain.

Parflex's representations herein are solely based on the Material Data Sheets (MDS) and/or other declarations provided by Parker's suppliers. Parker has not chemically analyzed the products for any of the listed substances. Further, Parker's representations herein do not include disclosure of the existence of "impurities," defined for purposes of this declaration as chemical substances that are unintentionally present with other chemical substances and are not present for the purpose of imparting or changing the characteristics of a material or product. These "no intentional addition" impurities are not analyzed for threshold levels and are therefore not considered applicable for declaration.

Parker will continue monitoring the development of the GADSL list annually and will comply with notification obligations as applicable. Due to the complexity required to accurately track, review and confirm this declaration, the Parker Parflex Division will update this document on an annual basis. All pending regulations or in process changes to chemical substance lists may not be reflected in this edition.

Since conditions of use are outside Parker's control, Parker makes no warranties, express or implied, and assumes no liability related to any use of this information. See additional precautions for selecting and using Parker Parflex Fluid Connector Products at: www.parker.com/safety.