



SPECIALTY PRODUCTS

AN HF SINCLAIR BRAND

HELPING YOU TRANSFORM OIL
INTO OPPORTUNITY™



AN HF SINCLAIR BRAND

PETRO-CANADA LUBRICANTS

What began in 1943 as a refinery to support the Canadian Forces in World War II, has grown into a major high quality lubricants plant and the first Group III producer in North America.

Petro-Canada Lubricants, an HF Sinclair brand, has an annual capacity of more than 1 billion liters per year at its Mississauga facility. It produces specialty base oils, process oils and white oils that are among the purest in the world. For every application in every type of equipment, and in a wide variety of industries, products made from our specialty fluids make a measurable difference. As a pioneer in the manufacturing of Group II, Group II+ and Group III base oils, we apply more than 30 years of experience in choosing the right catalyst and high-quality feedstock. Petro-Canada Lubricants is also

We were the first lubricants manufacturer in North America certified ISO 9001 and first in the world certified to the international automotive standard IATF 16949.

one of the largest white oils producers in the world. Highly refined, colorless and odorless white oils meet the rigorous standards of a wide variety of industries such as health and beauty, adhesives, plastics and elastomers.

We were the first lubricants manufacturer in North America certified ISO 9001 and first in the world certified to the international automotive standard IATF 16949. We are certified against the globally recognized ISO 14001 standard as a demonstration of our commitment to the environment. With world-class research and development, the experience and foresight of a dedicated technical services team, and knowledgeable sales people, we provide you unparalleled access to the industry expertise that can help make your business more efficient.



OUR STORY

HOLLYFRONTIER SPECIALTY PRODUCTS

Our concentration in Lubricants and Specialty Oils goes back almost a century. During this time, our Tulsa, OK refinery participated in the development of the first oils for extending natural rubber. Today, we continue to lead in the production of oils tailored to improving outcomes. HollyFrontier Specialty

HF Sinclair owns and operates 6 complex refineries with an annual crude oil capacity of approximately 457,000 barrels per day.

Products, an HF Sinclair brand, has become a major supplier of high quality paraffinic

base oils destined for a wide range of lubricants geared to applications in the automotive, industrial, marine, rail and

construction industries. Its highly specialized paraffinic and aromatic oils for the rubber industry help speed production and contribute to product quality. Its agricultural oils protect crops against harmful insect infestation. And its asphalt products not only pave America's highways, they help bring them back to life after they have worn.

HollyFrontier Specialty Products is a division of HF Sinclair (NYSE: DINO). HF Sinclair owns and operates 6 complex refineries with an annual crude oil capacity of approximately 457,000 barrels per day. Our refineries can process heavier, less expensive types of crude oil and still produce a high percentage of gasoline, diesel fuel and high value refined products.



SONNEBORN

For more than 100 years, Sonneborn, an HF Sinclair brand, has been a world leader in the manufacture and supply of high-purity specialty hydrocarbons for use in both the consumer and industrial marketplaces. Sonneborn has been setting global industry standards as one of the world's largest dedicated suppliers of white oils, petrolatums and waxes. Our refinery in Petrolia, Pennsylvania traces its heritage back to the late 1800s, while its facilities in the Netherlands also have a full century of supplying superior technical capabilities and manufacturing expertise.

Over the years, Sonneborn pioneered the production of petrolatum for use in medical salves and ointments. Another milestone came when Sonneborn became the first refiner of white oils in the United States. Today, Sonneborn's state-of-the-art refining and manufacturing processes continue to pioneer with such innovations as stabilized and low volatility plastics oils, super white petrolatums, high pressure compressor lubricants and specialty food grade wax blends. Sonneborn

also introduced the highest viscosity USP purity white mineral oil for cosmetic applications where emolliency and skin protection are required. Most recently, Sonneborn introduced a 100% vegetable-based product line for personal care applications and a range of sensory enhanced alkane replacements to silicone fluids.

Sonneborn offers the broadest line of highly refined hydrocarbon products in the industry. The numerous grades we offer satisfy a broad spectrum of applications, and our custom-formulating ability helps us meet the most exacting of specifications. We provide grades that meet the strict standards of USP, NF, EuP, BP, DAB, French Codex, Japanese and other pharmacopoeias. We also provide products that conform to NSF and FDA classifications.

Sonneborn offers a similar product range in both Europe and North America, enabling us to more efficiently serve the needs of our global customers.

OUR PRODUCTS

HOLLYFRONTIER SPECIALTY PRODUCTS

The HollyFrontier Specialty Products Tulsa, OK refinery sits on a 750 acre site encompassing the 125,000 barrel per day refinery, 3.2 million barrels of storage, and on-site truck and railroad loading facilities. Located close to Cushing, OK, the major crude oil pipeline hub, the plant has the flexibility to optimize its crude slate, selecting feedstock consisting primarily of Oklahoma Sweet, Cushing Common and West

Texas Intermediate. The Oklahoma Sweet is of particular importance because its superior viscosity index and high paraffinic content are ideal for lubricant production. The company's product range includes base oils, process oils, wax, and specialty products benefiting formulators, blenders and direct users.





BASE OILS

Our Base Oils are manufactured as base stocks or blending components for blender-compounders to use in producing their own finished products. As such we are one of the largest manufacturers of bright stock, and feature the broadest range of high quality base stock in the United States.



PROCESS OILS

Our world-renowned Sunpar™, Sundex™ and Circosol™ oils are designed for the rubber and chemical industries, and are extracted from the Refinery's Lube Extraction Unit (LEU) where increased aromaticity and low volatility are desirable. Beyond rubber applications, these highly refined oils are used in adhesives, coatings and defoamers. Using only West Texas Intermediate and light sweet crude (low sulfur) as our feedstock, HollyFrontier Specialty Products assures you of a consistency of quality that's as individual as a fingerprint. Our other products for specific applications include: FCA™ Defoamer Oils; Heat Transfer Oils; DCA™ Dust Control Oils and Suncoat™ Coating Oils.



SPECIALTY PRODUCTS

Our specialty products slate includes Asphalt Performance Products and Horticultural Oils for focused applications. Our Hydrolene™ Asphalt Performance Products are available in both aromatic and paraffinic formulations. They provide the viscosity and volatility characteristics covering the complete spectrum of asphalt operations, including compatibility with polymer modified asphalts in paving and roofing. Our Sunspray™ and Sunspray™ Ultra-Fine™ Spray Oils are paraffinic oils specifically designed to meet growers' requirements for an extremely effective pesticide with low toxicity. Sun Ag™ oils are carriers for chemical herbicides, providing a better spray pattern than herbicides used alone. Our horticultural oils are tightly refined to meet the most stringent manufacturing and use requirements. All provide an alternative or supplement to many synthetic organic pesticides in Integrated Pest Management Systems.



WAX

HollyFrontier Specialty Products paraffin, microcrystalline, slack wax, and custom blended waxes are meticulously solvent-refined and hydrofinished for use in candles, corrugated packaging, composite board sizing and petrolatum. The result is the purity and performance you desire for unblemished production and protection.

OUR PRODUCTS

PETRO-CANADA LUBRICANTS

As a pioneer in the manufacturing of Group II, Group II+ and Group III base oils, Petro-Canada Lubricants applies more than 30 years of experience in choosing the right catalyst and selecting high quality feedstock to provide you with superior products.





AN HF SINCLAIR BRAND



WHITE OILS

Petro-Canada Lubricants is one of the largest white oils manufacturers in the world. Our highly refined, colorless and odorless **PURETOL™** white oils meet the rigorous standards for health and beauty products, pharmaceuticals, and food processing applications. Our grades of **KRYSTOL™** technical white oils are ideally suited for a wide variety of industries, including plastics, chemicals and adhesives.



BASE OILS

A full slate of **PURITY™** Group II, Group II+ and Group III base oils is ideal for all your blending specifications and needs. The oils' high purity, high VI and low volatility properties contribute to higher fuel efficiency in engine oils and reduced power consumption in industrial lubricants. The high quality Group III base oils are an excellent alternative to more expensive PAO. They allow you to consistently blend and compound formulations meeting the increasing technical demands of synthetic motor oils and high performance industrial and specialty lubricants.



PROCESS OILS

Crystal clear and virtually non-toxic **PARAFLEX™ HT** process oils are composed of saturated hydrocarbons with essentially no undesirable polar compounds or impurities. Available in a full range of ISO viscosity grades, they are ideal for use as a raw material or ingredient in a wide range of industrial products, including rubber, plastics, leather, adhesives, polishes, plate glass and glass wool.



Unlike distillate and diesel fluids, specially designed **PUREDRILL™** drill mud base fluids are virtually non-toxic and biodegradable. They also help maximize drilling efficiency while protecting worker health and safety.



SPECIALTY PRODUCTS

Our highly pure, low aromatic **Technical Spray Oils** are available in a variety of grades and distillation midpoints to best suit your critical needs in formulating and blending for insecticide, miticide and fungicide applications.

OUR PRODUCTS

SONNEBORN

Sonneborn is one of the world's leading refiners of high purity hydrocarbons including white oils, petrolatums, microcrystalline waxes and sensory enhanced alkanes. These products meet strict international personal care, pharmacopoeia and food grade standards. This specialization has propelled Sonneborn to the forefront of original research and additional product offerings in fields

such as: medical salves and ointments, plastics oils, and compressor lubricants.

International in scope, Sonneborn maintains refineries in the United States and the Netherlands, and research and custom-blending facilities in both countries.





WHITE OILS

Our white oils make an ideal blending base for personal care and pharmaceutical products. Their inert nature makes them easy to work with, as they lubricate, smooth, soften, extend and resist moisture in many formulations. You can find our USP and NF grade white oils in products ranging from baby oils and lotions to sunscreens, tissues, and antibiotics. The plastics industry uses our **HYDROBRITE™** line of low-volatility white oils in the production of polystyrene, polyolefins, thermoplastic elastomers, and various polymers to improve and control the melt flow rate of the finished polymer.



PETROLATUMS

Sonneborn petrolatums are used by personal care and pharmaceutical formulators as an ideal formulation base. Our petrolatums add lubricity and moisture resistance to lotions, creams, ointments, and hand cleaners. Sonneborn petrolatums meet FDA requirements. Food processors rely on them for uses that range from baking and candy-making to packaging.



MICROCRYSTALLINE WAXES

Sonneborn waxes act as bases for chewing gum, and as cold-flexible coatings for cheese wheels. They are natural bases in lipstick, cold creams, and ointments, where they harden, lubricate, carry pigments and medication, and protect against moisture. Many of the wax products we use daily, from crayons, candles, and caulk, to sealants and fine wood polishes, start with Sonneborn **MULTIWAX™**.



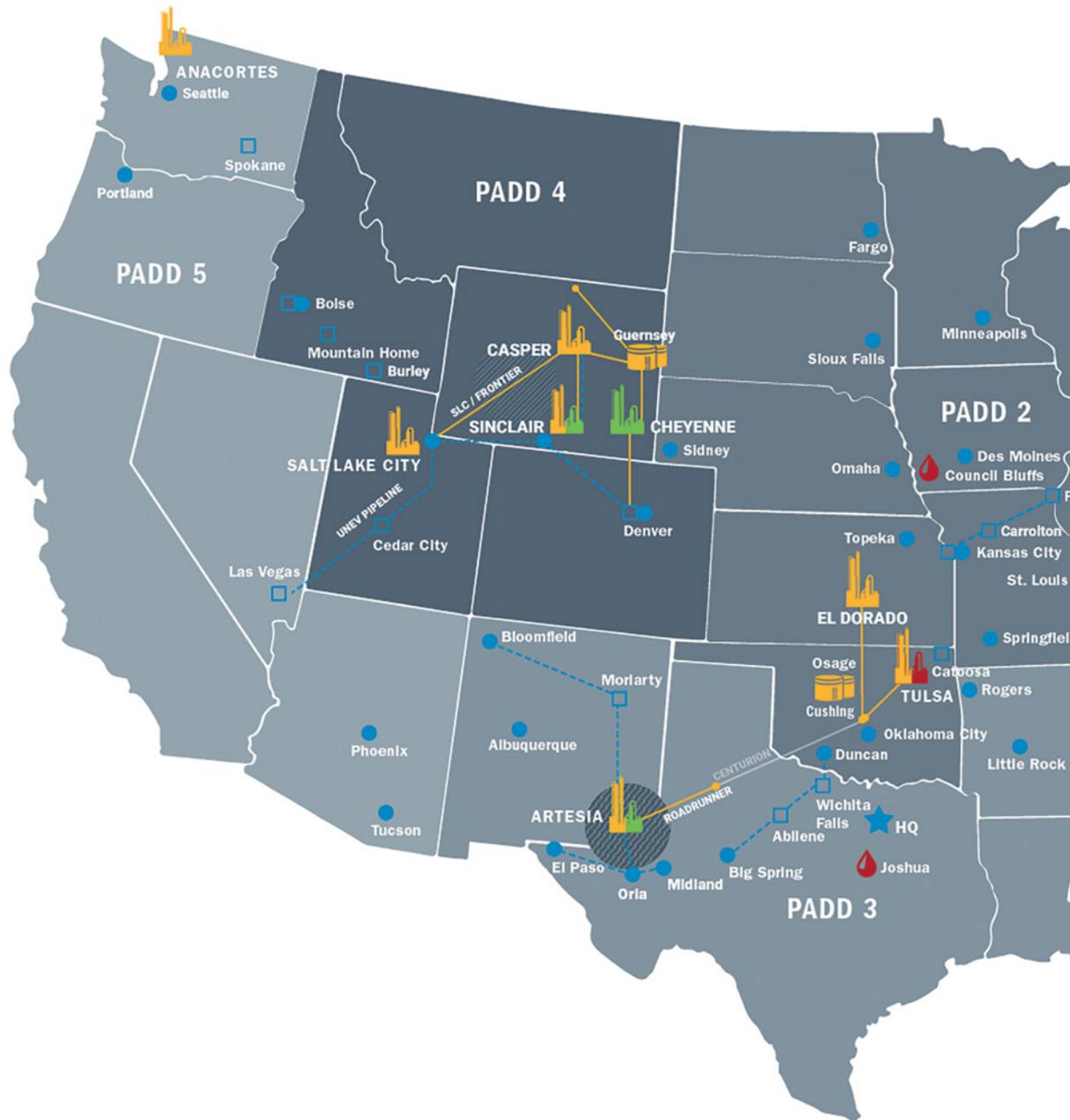
SENSORY ENHANCED ALKANES

Sonneborn has introduced a range of highly versatile alkanes (INCI name 'alkanes') that have proven to be effective extenders and/or replacements for silicone fluids. **Lilac™** and **Iris™** are clear, odorless, inert, UV and thermally stable, and resistant to microbial attack with a dry, silky afterfeel. They are finding wide acceptance in a number of personal care applications including skincare, suncare, haircare and antiperspirant products.



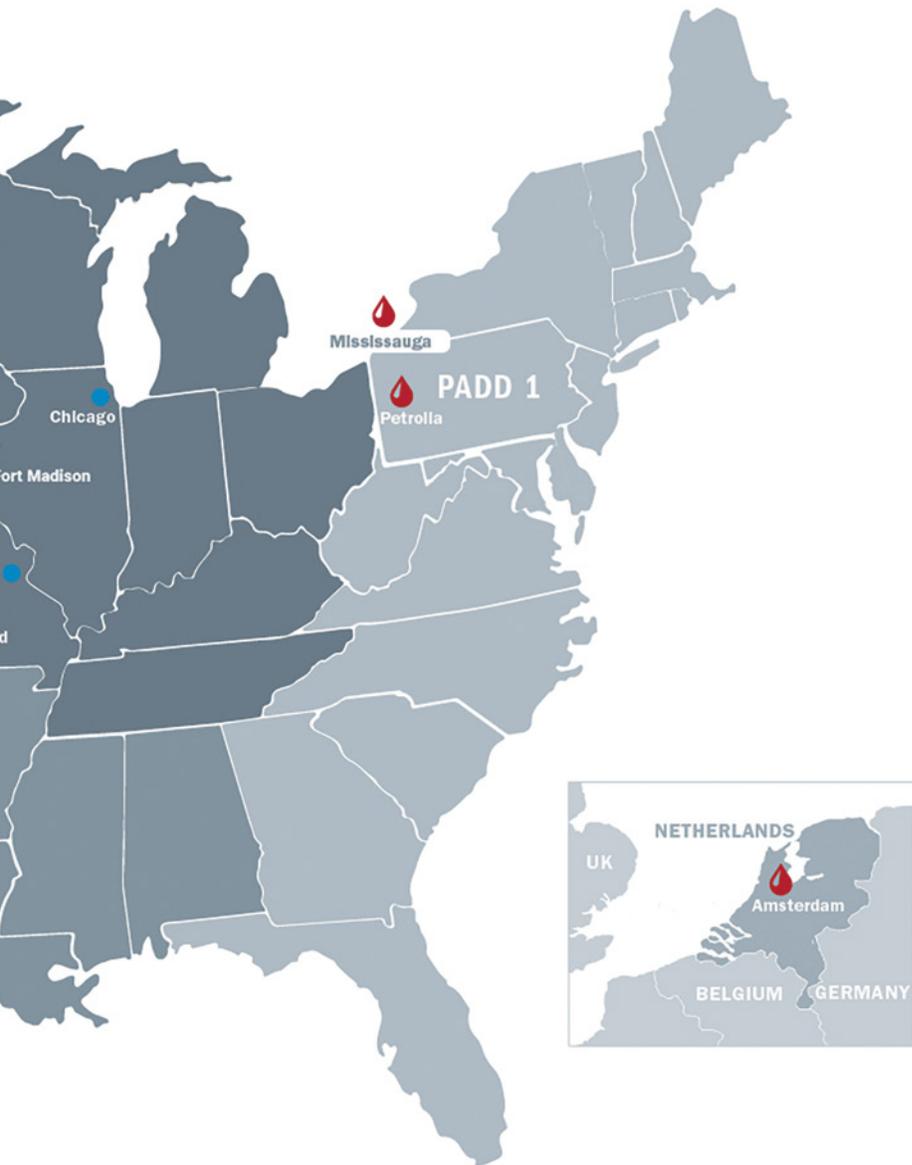
HF SINCLAIR ASSET FOOTPRINT

YOU WILL FIND HOLLYFRONTIER SPECIALTY PRODUCTS, PETRO-CANADA LUBRICANTS AND SONNEBORN STRATEGICALLY LOCATED ACROSS THE USA, CANADA AND THE WORLD TO BRING YOU QUICK AVAILABILITY AND INSTANT RESPONSIVENESS.



With quality and consistency being two hallmarks of our products, service adds a third. We pride ourselves in responsiveness to your needs. Using superb crude,

advanced refining processes, and the extensive distribution network shown below, we are able to provide you a secure supply of oils of the highest quality.



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HF SINCLAIR REFINERIES
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RENEWABLE DIESEL FACILITY
- 

HF SINCLAIR REFINERY + LUBRICANTS PRODUCTION
- 

LUBRICANTS FACILITY
- 

HEP TERMINAL / HF SINCLAIR PRODUCT MARKETS
- 

HF SINCLAIR PRODUCT MARKETS
- 

HEP PRODUCT PIPELINES
- 

HEP CRUDE PIPELINES
- 

CRUDE HUB
- 

CRUDE GATHERING

OUR COMMITMENT

SUPPORTING YOU WITH THESE VALUABLE AND ESSENTIAL SERVICES

HollyFrontier Specialty Products Technical Assistance

To help customers make the best use of HollyFrontier Specialty Products offerings in all applications, our technical specialists are available to answer your questions and provide guidance. This is a resource that is not readily available from commodity suppliers.

Certified ISO 9001

HollyFrontier Specialty Products oils are produced in strict compliance with statistical process control managed through the latest version of the ISO 9001 Quality Management System to ensure consistent quality.

HollyFrontier Specialty Products REACH Registration

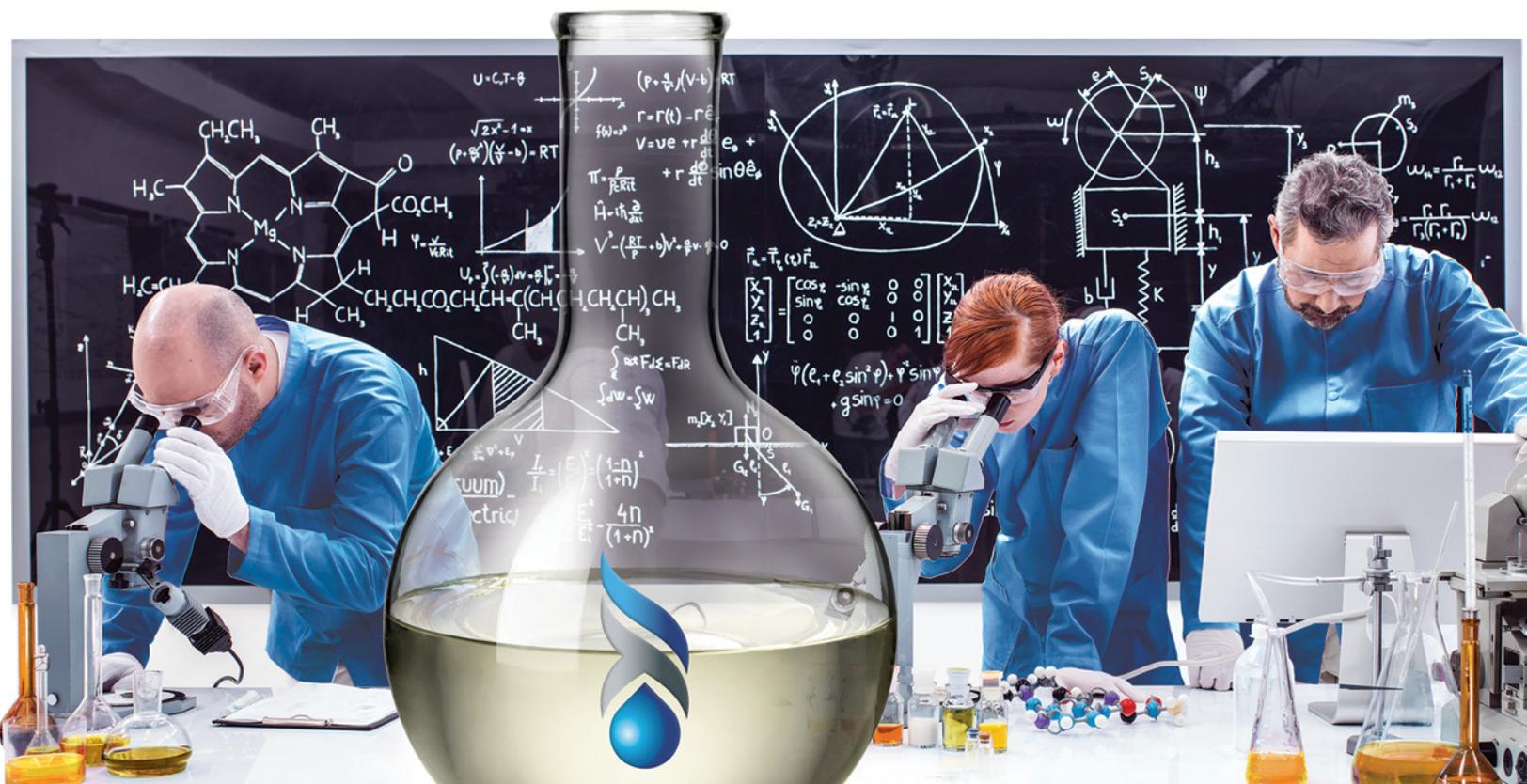
In accordance with the European Union (EU) REACH legislation, HollyFrontier Specialty Products, as a "non-EU manufacturer," has designated The Acta Group EU, Ltd (Acta EU) as our Only Representative (OR). Acta EU will retain records of the annual volume of substances

imported by customers of HollyFrontier Specialty Products into the EU, and will ensure, where applicable, that the latest hazard communication (i.e., Safety Data Sheet) on these substances is supplied.

Logistics

HollyFrontier Specialty Products is proud to offer one of the most efficient and reliable transportation systems in the industry. The core components of the program include safety, information availability, equipment and service. Our fleet of 1,100 rail cars operates out of our centrally located refinery and our strategically located terminals around the country, ensuring prompt bulk delivery.

Our motor carriers operate at an impressive level of on-time delivery, and their performance is monitored through HollyFrontier Specialty Products' "Carrier of the Year" Program. HollyFrontier Specialty Products also offers convenient access to international shipments by sea, as well as shipments using Flexibag and ISOTANK.



OUR VALUES

Electronic Information System (EIS)

The technology at the heart of HollyFrontier Specialty Products' transportation system enables accuracy, speed, current information, and integration with your system.

HollyFrontier Specialty Products Rail Tracking Service

Our railcar tracking, performance measurement and management system provides daily reports on car location and forecasted arrival dates to help alleviate the uncertainties inherent in railcar shipment. Daily reports contain standard railroad CLM reporting.

HollyFrontier Specialty Products Rate Tracker Service

HollyFrontier Specialty Products' automated freight rating system ensures freight cost accuracy on invoices and enables prompt return of rate requests.

Electronic Data Interchange (EDI)

HollyFrontier Specialty Products sends all bill of lading information to the railroads via EDI, ensuring accuracy and timeliness in processing.

Transportation Service

HollyFrontier Specialty Products' integrated system may offer a transportation package that best meets your needs. If you decide you would like to have HollyFrontier Specialty Products coordinate your transportation requirements, there may be an attractive economy of scale because we combine our inbound and outbound requirements for greater negotiating power. All this translates into added reliability and convenience, as well as savings for you.

HEALTH & SAFETY:

We put health and safety first.

We conduct our business with high regard for the health and safety of our employees, contractors, and neighboring communities. We continuously strive to raise the bar, guided by our stringent health and safety performance standards.

ENVIRONMENTAL STEWARDSHIP:

We care about the environment.

We are committed to minimizing environmental impacts by reducing wastes, emissions, and other releases. We understand that it is a privilege to conduct our business in the communities where we operate.

CORPORATE CITIZENSHIP:

We obey the law.

We are committed to promoting sustainable social and economic benefits wherever we operate.

HONESTY & RESPECT:

We tell the truth and respect others.

We uphold high standards of business ethics and integrity, enforce strict principles of corporate governance, and support transparency in all our operations. One of our greatest assets is our reputation for acting ethically in the interest of employees, shareholders, customers, business partners, and the communities where we operate.

CONTINUOUS IMPROVEMENT:

We must continually improve.

Innovation and high performance are our way of life. We believe a positive attitude toward constructive change is essential.

MILESTONES

HOLLYFRONTIER SPECIALTY PRODUCTS

- 1938** • Pioneered the use of Rubber Process Oils with the introduction of CIRCO™ oil for natural rubber.
- 1950s** • Introduced Sundex™ aromatic rubber process oils for use in tires and Styrene Butadiene Rubber.
- 1967** • Introduced Sunspray™ line of EPA registered pesticidal oils.
- 1970s** • Hydrolene™ Asphalt Modification product line takes off following involvement with the Strategic Highway Research Project Binder Task Force to develop performance based specifications for paving asphalt.
- 1990s** • Introduced Sunpar™ 160, a low fog, low volatility process oil for the first patented Thermoplastic Elastomers (TPE) using Ethylene Propylene Diene Monomer (EPDM) and Polypropylene.
- 2008** • Introduced Sundex™ 8000 EU, the first non-carcinogenic aromatic oil produced in North America to meet the new European tire oil standards.
- 2009** • Holly Corporation acquired the Tulsa Refinery, including the Lubricants and Specialty Products business from Sunoco, Inc.
- 2011** • Holly Corporation and Frontier Oil merged, forming HollyFrontier.
- 2012** • Installed a new vacuum tower allowing for increased crude capacity and increased production of high viscosity products such as Sunpar™ 2280 and Sundex™ 8000 EU.
- 2013** • Dedicated the only fully equipped and staffed Rubber Lab in the oil industry.
- 2017** • HollyFrontier Corporation acquired Petro-Canada Lubricants, becoming the 4th largest base oil producer in North America.
- 2019** • HollyFrontier Corporation acquired Sonneborn, global producer of the broadest range of highly refined petroleum products in the industry.

PETRO-CANADA LUBRICANTS

- 1943** • British American Oil built the Clarkson Refinery during WWII to support Canadian Forces.
- 1975** • Petro-Canada Lubricants founded as a Crown Corporation of Canada.
- 1979** • Unique two stage Hydrotreating Facility goes online.
- 1985** • Petro-Canada Lubricants becomes new owner of Clarkson Refinery through acquisition of Gulf Canada's refining operations.
- 1991** • First White Oil production.
- 1993** • Remaining fuels units are shut down, and Clarkson Refinery is converted to a specialized lubricants plant.
 - First North American lubricants manufacturer to be registered to ISO 9001.
- 1996** • New Catalytic Dewaxing unit onstream, doubling lubricant production capacity including the first Group III base oil production in North America.
- 2002** • First lubricants manufacturer in the world to obtain the new standard and be IATF 16949 registered.
- 2006** • Catalytic Dewaxing unit is debottlenecked, further increasing capacity by 25%.
- 2009** • Suncor merged with Petro-Canada Lubricants, becoming the 5th largest energy company in North America.
- 2017** • Petro-Canada Lubricants is acquired by HollyFrontier Corporation.

SONNEBORN

- 1860** • Sonneborn refinery is dedicated in Petrolia, PA.
 - 1900** • Pioneers production of petrolatum in medical salves and ointments in Europe and USA.
 - 1915** • First refinery in US to produce and refine white mineral oil.
 - 1940s** • Petroleum sulfonate production valuable contribution to WWII efforts.
 - 1960s** • Introduction of stabilized, low-volatility plastics oils, super white petrolatum, high pressure compressor lubricants, and specialty food-grade wax blends.
 - 1970s** • Produces first branded product line for use in the production of polystyrene, polyolefins, thermoplastic elastomers and other polymers, and creates a new custom-formulating facility.
 - 1990s** • Created Hydrobrite HV™, the highest viscosity USP PURITY™ white mineral oil for cosmetic applications where emollience and skin protection are required.
 - 2019** • Sonneborn is acquired by HollyFrontier Corporation.
 - 2022** • HollyFrontier Corporation enters into definitive agreements to acquire Sinclair Oil Corporation, creating HF Sinclair.
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hollyfrontierspecialties.com

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sonneborn[™]

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