Industrial Waxes

Food & Agriculture

Sasol Performance Chemicals

About us

Sasol's Performance Chemicals business unit markets a broad portfolio of organic and inorganic commodity and speciality chemicals. Our business employs about 1300 people in four key business divisions: Organics, Inorganics, Wax and PCASG (Phenolics, Carbon, Ammonia and Speciality Gases). Our offices in 18 countries serve customers around the world with a multi-faceted portfolio of state-of-the-art chemical products and solutions for a wide range of applications and industries.

Our key products include surfactants, surfactant intermediates, fatty alcohols, linear alkyl benzene (LAB), short-chain linear alpha olefins, ethylene, petrolatum, paraffin waxes, synthetic waxes, cresylic acids, high-quality carbon solutions as well as high-purity and ultra-high-purity alumina. Our speciality gases sub-division supplies its customers with high-quality ammonia, hydrogen and CO_2 as well as liquid nitrogen, liquid argon, krypton and xenon gases.

Our products are as individual as the industrial applications they serve, with tailor-made solutions creating real business value for customers. Ongoing research activities result in a continuous stream of innovative product concepts that help our customers position themselves successfully in future markets.

Our products are used in countless applications in our daily lives to add value, security and comfort. Typical examples include detergents, cleaning agents, personal care, construction, paints and coatings, leather and metal processing, hot-melt adhesives, bitumen modification and catalyst support for automotive catalysts and other diverse specialty applications including oil and gas recovery, aroma production, plastic stabilisation, and polymer production. Every day, our researchers explore ways to improve our products and develop innovations that improve the quality of people's lives.

At a glance

The Wax Division of Sasol Performance Chemicals is the leading specialist in innovative wax technology.

For many decades the Wax Division of Sasol Performance Chemicals has focussed on the development and sales of paraffin waxes, micro waxes, synthetic waxes and blends or emulsions thereof. Today we serve different industries like inks, paints & coatings, rubber & tire, paper & packaging, textiles, cosmetics as well as road construction, candles and many others.

Micro and macro crystalline waxes are renowned for a wide range of possible applications. Their use ranges from rather simple applications to process oriented tailor-made blends for state of the art production equipment. Specialties are created for innovative solutions.

Refined paraffin waxes are blends of saturated hydrocarbons, purified by modern, environmental friendly technologies. All our products are constantly monitored by a stringent quality control system and are nontoxic. Their environmental properties are characterized by good biodegradability and non-cumulative effects.

Wax solutions for every process.

Food & Agriculture

Sasol Performance Chemicals products in food and agricultural applications are understood as processing aids and formulation additives in many different processes. They are used as inert carriers e.g. for colours, active ingredients and scents. They also enhance hydrophobic properties or act as sealing or release agents depending on the nature of the application. Sasol Performance Chemicals products can also provide better consistency, enhance film forming capabilities or act as a temporary processing aid. Following just a few of the wide variety of these applications are shown.

Rodent Bait Carrier

Paraffin waxes are used for the formulation of rodent baits and function as a processing aid for extrusion and / or pressing. They are the carrier for the active ingredients. The paraffin wax needs to be perfectly odourless and tasteless so that the rodent will uptake the bait without suspicion.

Fishnet Protection

In the seawater fish farming industry, nets need to be protected against bio-fouling like algae and mussels. Fish cages stay at the surface as the farmer needs to feed and monitor the fish. Mussels and algae however are able to increase the nets´ weight for sinking. Bio-fouling also may affect the water exchange which would have direct influence on fish health and quality.

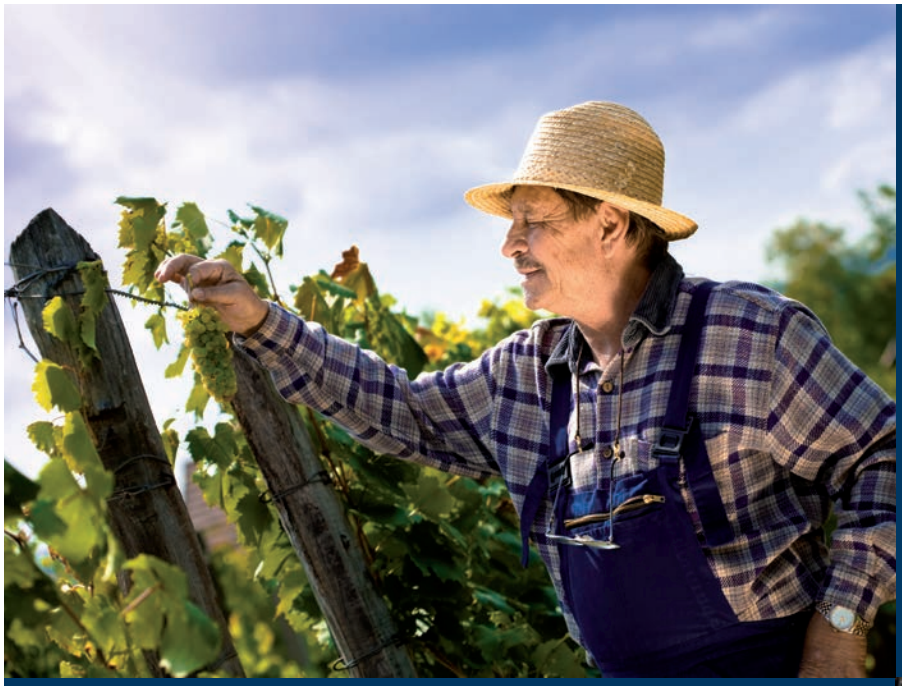
A paraffin wax dispersion like HydroWax 730 is used as tolerant water born carrier for active ingredients. By drowning the nets in a formulation of HydroWax with incorporated active ingredients a waxy, flexible, sticky and water repellent film may be formed on the entire surface of the nets. This effectively protects the nets throughout the whole production cycle of the fish.

Grafting Wax and Extrusion Processing Aid

Microcrystalline waxes may provide consistency in grafting waxes which provide artificial bark in nurseries and orchards. The same wax type may also act as a lubricating aid in animal feed extrusion also providing water repellence and as a dust binder. As such it provides efficiency at relatively low processing temperatures. Microcrystalline wax therefore is used at very limited amount resulting in the required behaviour.

Fertilizer Dustbinding and Anticaking Coatings

In the fertilizer industry waxes and special blends are used as dust binders and conditioning agents. With our special range of dust binding waxes you are able to agglomerate the fines for a dust free handling of the fertilizer. As conditioners the waxes coat the particles and reduce moisture uptake due to deliquescence and therefore prevent eventual caking of the material.



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Technical Data

Rodent Baits

	Congealing Point [°C]	Oil Content [%]	Penetration at 25°C [1/10 mm]	Viscosity at 100 °C [mm²/s]
Sasolwax 7040	68 - 72	0 - 0.5	11 - 15	6 - 7
Sasolwax 6403	62 - 66	0 - 0.5	16 - 22	5.5 - 7

Fish Farming

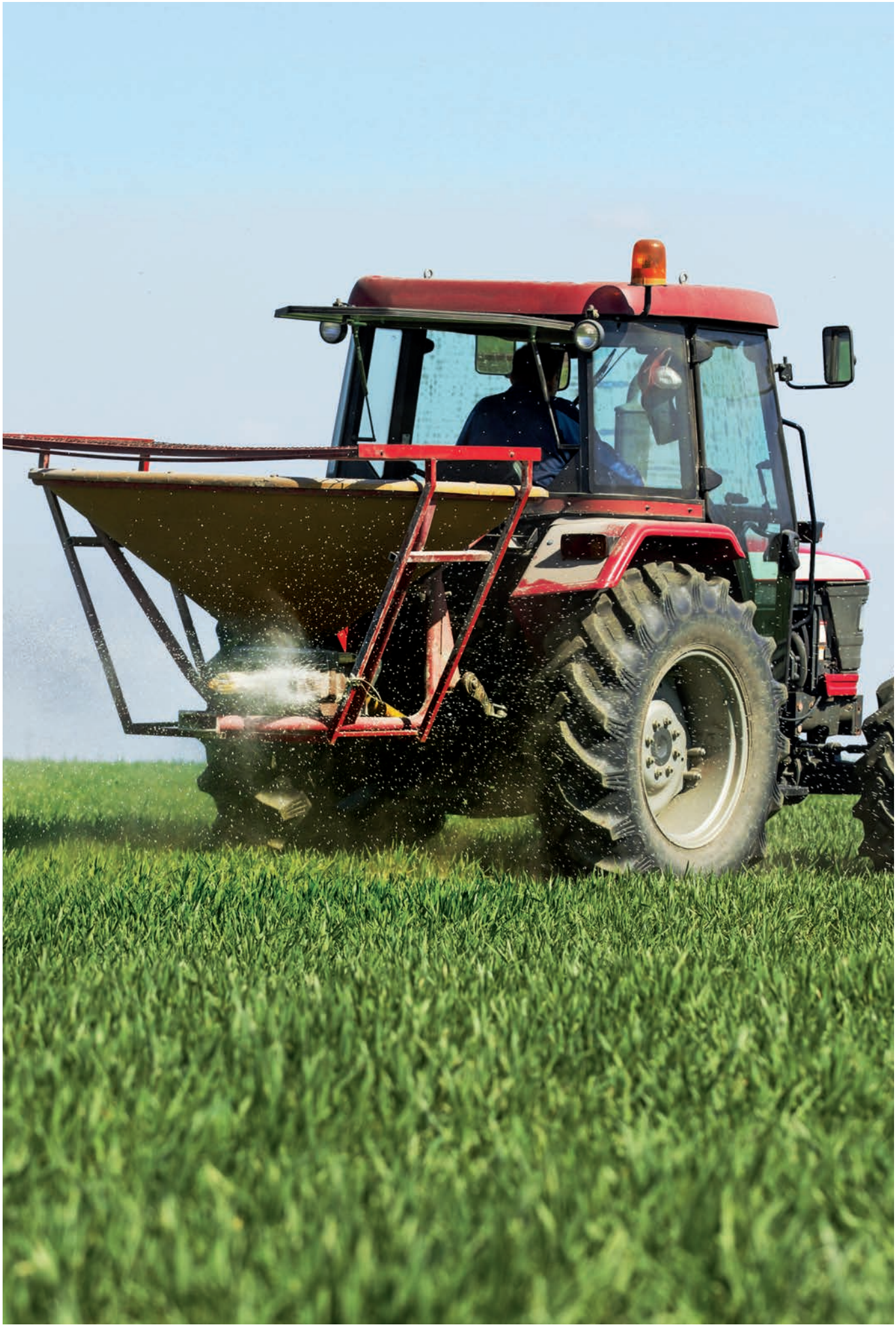
	Water Content [%]	Viscosity typical [mPa • s]	pH typical	Emulsifier
HydroWax 138	38 - 42	350	9	Anionic/Nonionic

Grafting Waxes and Extrusion of Animal Feed

	Congealing Point [°C]	Oil Content [%]	Penetration at 25°C [1/10 mm]	Viscosity at 100 °C [mm²/s]
Sasolwax 7835	70 - 80	0 - 2.5	25 - 30	13 - 16

Fertilizer Coatings

	Congealing Point [°C]	Penetration at 25°C [1/10 mm]	Viscosity at 100 °C [mm²/s]
Sasolwax 4605	40 - 45		3 - 5



Sasol Performance Chemicals
Wax Division

Worthdamm 13–27
20457 Hamburg, Germany

industrial.waxes@de.sasol.com

Global Contacts

Europe	+49 40 78115 0	wax@de.sasol.com
North America	+1 510 232 8704	wax@us.sasol.com
Latin America	+55 11 4612 8199	wax@us.sasol.com
	+55 11 2898 9768	
Asia-Pacific	+86 21 22 180581	wax@ap.sasol.com
Middle East	+20 3 420 52 10	wax@alexandria-wax.com
Africa	+27 16 960 2088	sasol.wax@sasol.com

www.sasol.com

Industrial Waxes – Food & Agriculture 11/16 GB