SASOL CHEMICALS

Solvents Division,
Europe & Mediterranean

Overview

SASOL AT A GLANCE

Sasol is an international integrated chemicals and energy company that leverages technologies and the expertise of our 30 300 people working in 33 countries. We develop and commercialise technologies, and build and operate world-scale facilities to produce a range of high-value product stream, including liquid fuels, chemicals and low-carbon electricity.

SASOL CHEMICALS

Sasol Chemicals produces and markets a range of commodity chemicals based on the Fischer Tropsch (FT) and natural gas value chains including feedstocks of ethane, ethylene, propylene and ammonia.

Final products include explosives, fertilisers, polymers (polyethylene, polypropylene, and polyvinyl chloride), mining reagents (Sodium cyanide), chloro-alkali chemicals and a range of alcohols, ketones, acrylate monomers, and other oxygenated solvents. Other Sasol Chemicals products, available through Performance Chemicals SBU include Organics, Inorganics & Catalyst, Wax and PCASG (Phenolics, Carbon, Ammonia and Speciality Gases).

Our products are used in countless applications in our daily lives to add value, security and comfort.

Typical applications include aerosols, cosmetics, fragrances, packaging, paints, adhesives, pharmaceuticals, polishes, printing, plastics, mining (particularly in gold extraction), pulp and paper, steel, textiles, water treatment and purification, agricultural fertilisers and chemicals. Our commercial explosives products and opencast services are employed by all of Southern Africa's leading mining houses.

SASOL INDUSTRIAL CHEMICALS OVERVIEW

Solvents products are manufactured in world-class plants situated in Secunda and Sasolburg (South Africa) and Marl (Germany), which have a combined production capacity of ~1.2 million tons a year.
Products are supplied to customers in over 80 countries through a network of sales offices in the Americas, Europe, Middle East and Asia and Sub-Saharan Africa.

The products of our Industrial Chemicals Division are important to a wide range of applications:

Acrylate monomers (Ethyl acrylate and Butyl acrylate)
Emulsions for surface coating, adhesives, textile, pulp and paper, water treatment and super absorbent polymer.

Ethanol
Pharmaceuticals, cosmetics, fragrances and surgical procedures.

C3, C4 and other Alcohols (n-Propanol, n-Butanol, iso-Butanol, mixed Alcohols and Alcohol blends)
Printing and inks, antiseptics, fungicides, cosmetic preparations and other personal care applications, lacquer thinners, derivative manufacture such as plasticizers, alkylated glycol ethers, esters, acrylates, antifreeze and screen wash.

Esters (Ethyl acetate and Propyl acetate)
Formulations for adhesives and cosmetic, solvent for urethane resins, as process and extraction medium, printing and inks, lacquer thinners and coatings.

Glycol ethers and Glycol ether-acetates
With applications in coatings and mining industry.

Ketones (Acetone, MIBK and MEK)
Solvent in paints, rubber additives and anti-oxidants, degreasing of metal surfaces, refinery de-waxing, pharmaceuticals, flavours and fragrances.

Product specifications

Product	Description	CAS No.	Molar Mass in g/mol	Boiling point in °C @ 1013 hPa	Density in g/ml @20 °C	Flash point in °C	Water, mass% max	Explosion limit in % by volume of air	Selected applications
Alcohols									
Ethanol 99.9 UN (1) Ethanol 99.9 DB (2)	Ethyl alcohol of 99.99 % volume purity (1) Ethyl alcohol of 99.99 % volume purity denatured with Bitrex (2)	64-17-5	46.08	78	0.79	12	0.15	3.5 - 15.0	Raw material for adhesives, binders, fuels or fuel additives, aerosol propellants, anti-freezing agents, cleaning agents, disinfectants, cosmetic agents, fragrances, pharmaceuticals, toiletries, surgical procedure, printing inks and printing ink additives.
n-Propanol	Normal propyl alcohol of 99.90 % mass purity	71-23-8	60.09	97	0.80	24	0.1	2.1 - 13.5	Used as a solvent in antiseptics applications, pharmaceutical preparations, drug synthesis, cosmetic preparations and flexographic inks. Raw material for the manufacture of normal propyl amines, normal propyl paraben, normal propyl phthalate and normal propyl acetate.
n-Propanol BPR	Normal propyl alcohol of 99.90 % mass purity and biocide quality	71-23-9	60.09	97	0.80	24	0.1	2.1 - 13.6	The product is intended for use as a biocidal active substance for PT1 (Human hygiene), PT2 (Disinfectants and algaecides not intended for direct application to humans or animals) and PT 4 (Food and feed area).
n-Butanol	n-Butanol of 99.8 % mass purity	71-36-3	74.12	118	0.81	35	0.03	1.4 - 11.3	Used as a solvent in lacquers, lacquer thinners, etch primers, liquid printing inks, foundry dressings and stain removers. Raw material for the manufacture of acetates, xanthates, phthalates, mixed alkylated glycol ethers and butylated resins.
Isobutanol	iso-Butyl alcohol of 99.5 % mass purity	78-83-1	74.12	108	0.80	31	0.1	1.7 - 10.9	Used as a solvent in lacquers, lacquer thinners, etch primers, liquid printing inks, foundry dressings and stain removers. Raw material for the manufacture of acetates, xanthates, phthalates, mixed alkylated glycol ethers and butylated resins.
Mixed Alcohols									
Isopropylol	C3 alcohol distillation cut	67-63-0 64-17-5 78-93-2		82	0.79	13	0.1	3.3 - 19	Used as a solvent in lacquers, lacquer thinners, etch primers, liquid printing inks, disinfectants, fungicides, latex rubber production, foundry dressings, stain removers, antifreeze and as a fountain solution in lithographic printing.
Ethyol 78	Reaction mass of Ethanol and Isopropyl alcohol, denatured with MEK and Bitrex	64-17-5 67-63-0		73	0.79	17	1	2.0 - 15.0	Raw material for pesticides, photochemicals, material for printing inks and printing ink additives. Solvent for industrial use. Also used as an automotive screen wash additive.
Ketones									
Acetone	Acetone of 99.90 % mass purity	67-64-1	58.08	56	0.79	-17	0.3	2.5 - 13.0	Used as a chemical intermediate in Methyl Methacrylate (MMA), Bis-Phenol A (BPA), MIBK, DAA, and MIBC production. Used as a solvent in paints, inks, nail polish removers, acetylene cylinders, adhesives. Also used as a solvent in the manufacture of pharmaceuticals, vitamins and cosmetics.
MEK	Methyl ethyl ketone of 99.75 % mass purity	78-93-3	72.11	79	0.81	-6	0.05	1.5 - 11.5	Used in nitro-cellulose, polyester and most alkyd and phenolic resins, in degreasing of metal surfaces, and in the extraction of fats, oils and waxes.
MIBK	Methyl isobutyl ketone of 99.5% mass purity	108-10-1	100.16	117	0.80	14	0.05	1.2 - 8.0	Used in nitro-cellulose and other natural and synthetic resins, adhesives, herbicides, and plastics. Also used as an extractant for certain metals, and antibiotics and dewaxing of mineral oils. Other applications are production of synthetic leather, transparent paper, aluminium foil and degreasing of metal surfaces.
Acrylates									
Ethyl Acrylate	Ethyl acrylate of 99.5 % mass purity.	140-88-5	100.11	99	0.92	9	0.05	1.7 - 13.0	A versatile monomer to provide performance characteristics to polymer formulations for latex and solution copolymers, copolymer plastics and cross-linkable polymer systems. Major markets include surface coatings, textiles, adhesives and plastics
Butyl Acrylate	n-Butyl acrylate of 99.5 % mass purity.	141-32-2	128.17	147	0.90	41	0.05	1.5 - 9.9	A versatile monomer which provides performance characteristics in polymer formulations for latex and solution co-polymers, copolymer plastics and cross-linkable polymer systems. Major markets include surface coatings, textiles, adhesives and plastics.
Glacial Acrylic Acid	Glacial acrylic acid of 99.5% purity	Acrylic acid	72.06	140.9 °C	1.05	53.5	0.1	No data available	Used as a feedstock for manufacturing acrylates. Also used as an intermediate in the production of super absorbent polymers and carbomer for the personal care industry, as well as water treatment chemicals. Other applications include pulp and paper, clay, textiles and surface coatings.

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Esters									
Ethyl Acetate	Ethyl acetate of 99.80 % mass purity	141-78-6	88.11	77	0.90	-4	0.03	2.1 - 11.5	Used as a solvent in surface coatings, inks and as a process and extraction medium. Good solvent for a variety of resins including epoxies, urethanes, cellulosics acrylics and vinyl in applications such as coatings for wood furniture and fixtures, containers and closures, auto refinishing, for wood maintenance and marine. General solvent in formulations for products such as adhesives and cosmetics.
n-Propyl acetate	Propyl acetate of 99.5 mass% purity	109-60-4	102.13	101	0.89	11.8	0.1	2.0 - 8.0	Used as a solvent in surface coatings and inks. It is also commonly used in fragrances and as a flavor additive.
Butyl glygol acetate	Butyl monoglycol acetate of 98% mass purity	112-07-2	160.22	190	0.94	78	0.05	1.7 - 8.4	Important use in the coatings industry. Other applications are inks (flexographic, gravure and screen printing), dyes to print, colour leather and textiles. Also used in furniture polishes and wood stains.
Butyl diglygol acetate	Butyl diglycol acetate of 97 mass% purity	124-17-4	204.27	235 - 250	0.98	102	0.1	0.6 - 10.7	Used as a high-boiling solvent, levelling agent and coalescent in paints, lacquers and printing inks. Other application are dyes in wood stains and furniture polishes.
Glycol Ethers									
Butyl Glycol Ether (BGE)	Butyl glycol ether of 99% mass purity	111-76-2	118.18	170	0.9	67	0.1	1.1 - 10.6	Used widely in the surface coating industry as a solvent. BGE reduces the viscosity in alky resin varnishes and acts as a property regulator, coalescer and flow improver in water based paints. Other applications include printing inks, cleansers and mineral oil emulsions, where BGE is used as a solubiliser. BGE has outstanding solvent power for many natural and synthetic resins as well as cellulose derivatives.
Butyl diglycol Ether (BDGE)	Butyl diglycol ether of 99% mass purity	112-34-5	162.2	230	0.95	115	0.1	0.7 - 5.3	Used as solvent in the coating industry, printing inks, component in surface cleaners e.g. degreasing matals and cutting oils. Used as starting material of Butyl diglycol acetate.
Butyl Triglycol Ether (BTGE)	Butyl triglycol ether of 70% mass purity	143-22-6 1559-34-8 112-34-5	206.31	277 - 333	0.98 - 0.99	131 - 13142	0.2	0.7 - 3.8	Butyl triglycol ether (BTG) has high dissolving power for cellulose nitrate, many synthetic, natural resins and dyestuffs. BTG is used typically in cutting and hydraulic oils, particularly in brake fluids, mining, oil field chemicals and textile dyes.

SALES ENQUIRIES
Sasol Chemicals, has locations and representation in South Africa, Botswana, Lesotho, Namibia, Zambia, West Africa, the United States, Brazil, the United Kingdom, France, Belgium, Germany, Italy, the United Arab Emirates, Singapore, Hong Kong, China and Japan.

European & Mediterranean enquiries
Sasol Solvents Germany GmbH, Anckelmannsplatz 1, 20537 Hamburg
Email: sales.solvents@de.sasol.com
Telephone Office: +49 40 636841000