



TRADE & INDUSTRIAL POLICY STRATEGIES

IMPORTS LOCALISATION AND SUPPLY CHAIN DISRUPTION STUDY: FOURTH QUARTER 2021

Trade & Industrial Policy Strategies (TIPS) is a research organisation that facilitates policy development and dialogue across three focus areas: trade and industrial policy, inequality and economic inclusion, and sustainable growth

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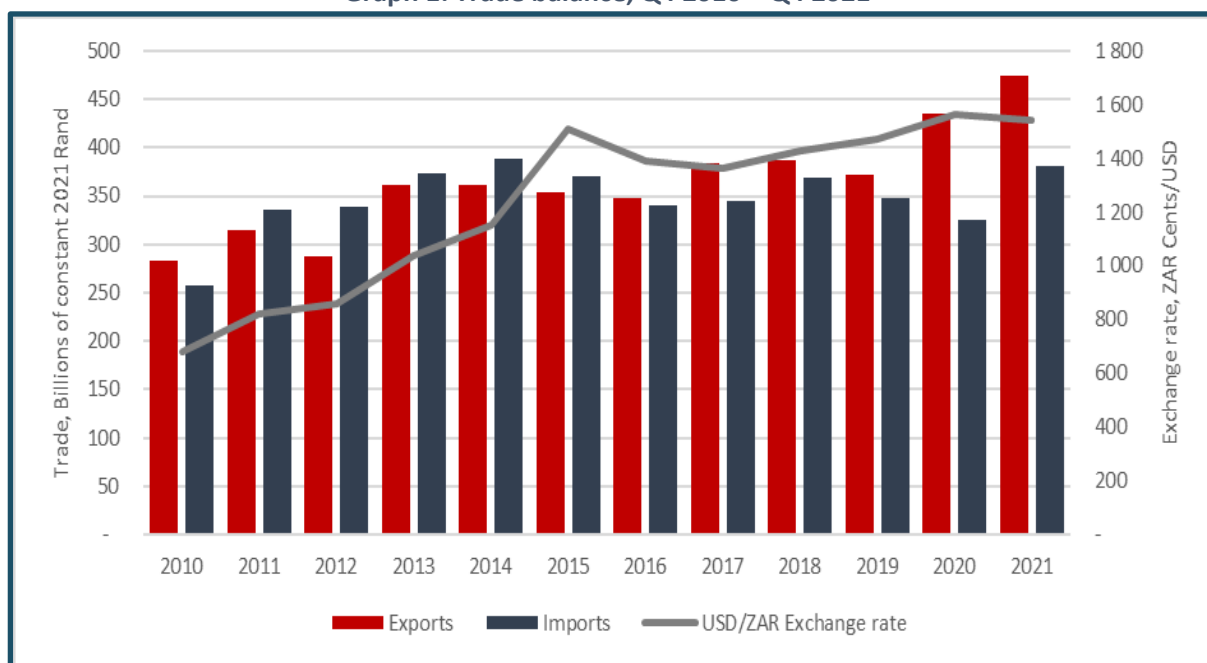
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TRADE ANALYSIS

The trade surplus declined to R93.7 billion in the fourth quarter of 2021, from R101 billion in the third quarter of the same year. As the world emerges from the pre-vaccine impact of the COVID-19 pandemic, global trade has improved. In South Africa, imports have been growing at higher rates than exports which reached their peak at the height of the pandemic. This is evident in the 17% growth in imports to R381 billion in the fourth quarter of 2021, while exports grew by a lower 9% to R475 billion (see Graph 1).

Almost half of the value of total imports (about R182.5 billion) came from five countries (China, the United States, Germany, India and Saudi Arabia). Moreover, almost a quarter of total imports (R88.7 billion) came from China, while the US and Germany contributed 7% apiece to total imports, and India and Saudi Arabia contributed 6% and 5% respectively to total imports. In addition, exports to the top five countries (the US, China, Germany, Japan, and the United Kingdom) accounted for about 39% of total exports. The largest share (about 11% or R51.9 billion) went to the US, followed by China and Germany at 9% (R42.7 billion) and 8% (R36 billion) respectively, along with Japan and the UK at 6% apiece.

Graph 1: Trade balance, Q4 2010 – Q4 2021



Source: Calculated from South African Reserve Bank (SARS) Trade Statistics and South African Reserve Bank (SARB).

PRODUCT ANALYSIS¹

Product 1: Ammonium sulphate

Ammonium sulphate (HS 31022100) is a white inorganic salt with several industrial uses, including as a fertiliser, and to a lesser extent, as a flame retardant. The product was ranked 123rd in the Top 200 list of imports by Rand value, with 31 million kilograms imported for R350 million in the fourth quarter of 2021 (see Table 1).

¹ The written analysis more often than not focuses on the period between 2013 and 2020 because SARS did not record Southern African Customs Union (SACU) trade data prior to that. Nevertheless, the graphs begin in 2010 to illustrate the extent of the change, particularly for exports. The SARS note detailing the change can be found here: <https://www.sars.gov.za/Media/MediaReleases/Pages/14-November-2013---Inclusion-of-new-data-in-SA-Trade-Stats.aspx>

Table 1: Product key data – Ammonium sulphate , Q4 2021

KEY DATA	NOT PREVIOUSLY MADE IN SOUTH AFRICA	PREVIOUSLY MADE BUT CANNOT COMPETE IN THE FACE OF LOW-COST COMPETITOR	CURRENTLY MADE IN SOUTH AFRICA AND IMPORTS INCREASING OVERTIME
Rank in Top 100 imports by Rand value			123rd
Rand value of imports			R349.7 million
Rank in Top 50 imports by quantity			22nd
Quantity of import			86.6 million kilograms
Capital good or consumer good			Capital good
If intermediate good; what value chain?			Chemicals
Good for final consumption (yes/no)			No
Designation status			Not designated

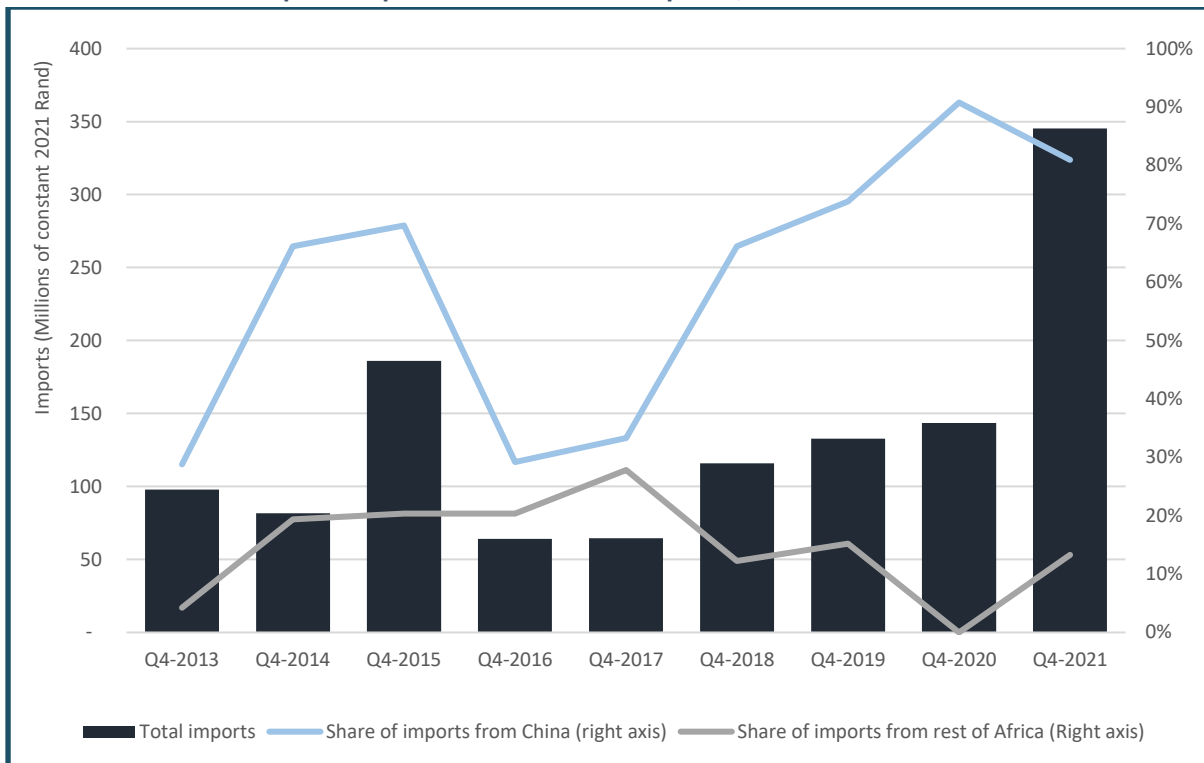
Ammonium sulphate is a nitrogen-based fertiliser salt manufactured in one of three ways. The most common is by reacting ammonia with concentrated sulphuric acid or by scrubbing tail gas in the manufacturing of sulphuric acid. Otherwise, it can be produced as a by-product in the manufacture of coke or caprolactam. In all these processes ammonium sulphate is in solution form. It must then be heated, evaporated and turned into a salt (primarily for ease of storage). The compound is typically used as a fertiliser, particularly for alkaline soil. The product also acts as a flame retardant due to its high melting point which increases the combustion temperature of materials. It has also been used as a wood preservative; however, this use has been discontinued due to problems arising from the accelerated metal corrosion resulting from wood preserved using the compound.

Ammonium sulphate accounts for less than 5% of global nitrogen fertilisers in the market. The global production capacity of ammonium sulphate has, in the last decade, shifted from Western Europe to China. The shift in production and supply capacity is seen in the decline of imports from Belgium and an increase in imports from China. Further, the global demand for ammonium sulphate is set to increase by 2.5% to the tune of US\$7 billion by 2025.²

In Rand terms, ammonium sulphate imports surged by about 141% to R349.7 million, from R143.5 million in the fourth quarter of 2020. Moreover, imports show a 160% surge from the pre-COVID amount of R132.8 million in the fourth quarter of 2019 (see Graph 2). The bulk of these imports (81% in the fourth quarter of 2021) came from China, with another 13% coming from the rest of Africa. Notably, African imports mainly come from Madagascar, with sporadic and minimal amounts from countries such as eSwatini, Egypt and Mauritius.

² Albarelli, G. 2018. Revisiting the Merseburg Process: Economic Opportunity and Environmental Benefit?

Graph 2: Imports of ammonium sulphate, Q4 2013 – Q4 2021



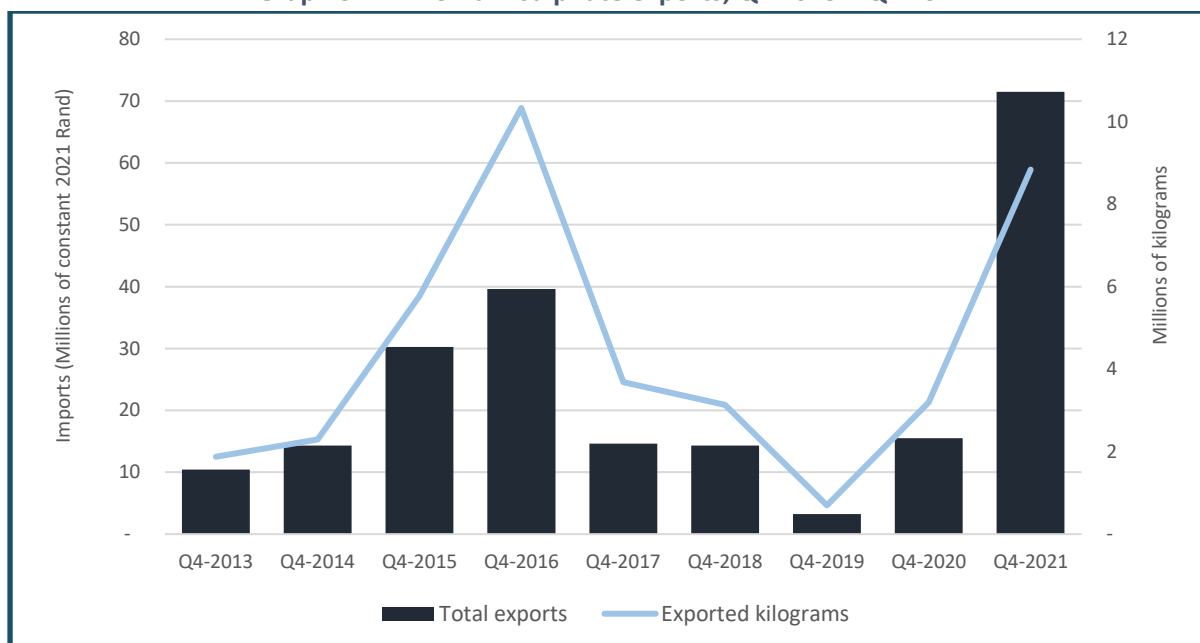
Source: Calculated from ITC Trade Map data. Downloaded from <https://www.trademap.org> in May 2022.

Despite the high global and domestic demand for nitrogen-based fertilisers, including ammonium sulphate, the extent of local production of ammonium sulphate is quite low. Sasol is the only major local producer of ammonium sulphate. Sasol’s R1 billion state-of-the-art Nitro plant in Secunda has the capacity to produce 400 000 tons of ammonium nitrate and ammonium sulphate per annum. Outside of Sasol, there is little to no industrial capacity to produce the compound. Moreover, the climate crisis requires a shift from products that produce greenhouse gas emissions, which include ammonium sulphate (a by-product of ammonia, released during manufacturing coal gas or coal coke used for steel production). However, local production of green ammonia would present an opportunity for the possible local manufacture of decarbonised ammonium sulphate.

Besides local consumption, some of this product is destined for export markets, most of which are within the continent (see Graph 3). Similar to imports, exports show a surge in the fourth quarter of 2021, rising from R15.5 million in the fourth quarter of 2020 to R71.5 million in 2021.

The entirety of fourth quarter 2021 exports went to the rest of the continent, with 86% of the value (83% of exported kilograms) going to Zimbabwe. Other countries to which South Africa exported this product include Zambia (R6.2 million); Namibia (R1.7 million), and Botswana (R1.1 million), among others.

Graph 3: Ammonium sulphate exports, Q4 2013 – Q4 2021



Source: Calculated from ITC Trade Map data. Downloaded from <https://www.trademap.org> in May 2022.

Product 2: Sodium hydroxide “caustic soda” in aqueous solution “soda lye or liquid soda”

Sodium hydroxide (or caustic soda) in an aqueous solution (HS 28151200) is a corrosive water solution containing sodium and hydroxide ions that produce a solution with a hydrogen ion concentration lower than that of pure water.³ Caustic soda is commercially available in an aqueous solution or solid flakes. It is a co-product of chlorine production, and a crucial intermediary substance with uses across industries such as pharmaceuticals, paper and pulp, and personal care products. It cleans and disinfects, as well as reducing the acidity of substances. Close substitutes include potassium hydroxide (caustic potash) and in some instances peroxide of sodium and potassium. The product was ranked 87th in the Top 200 list of imports by value, with imports amounting to R472.5 million and 98.7 million kilograms imported.

Table 2: Product key data – Sodium hydroxide “caustic soda” in aqueous solution “soda lye or liquid soda”, Q4 2021

KEY DATA	NOT PREVIOUSLY MADE IN SOUTH AFRICA	PREVIOUSLY MADE BUT CANNOT COMPETE IN FACE OF LOW-COST COMPETITORS	CURRENTLY MADE IN SOUTH AFRICA AND IMPORTS INCREASING OVER TIME
Rank in Top 100 imports by Rand value			87th
Rand value of imports			R472.5 million
Rank in Top 50 imports by quantity			20th
Quantity of imports			98.7 million kilograms
Capital good or consumer good			Capital good
If intermediate good; what value chain?			Various: paper and pulp, pharmaceuticals, personal care products
Good for final consumption (yes/no)			No
Designation status			Not Designated

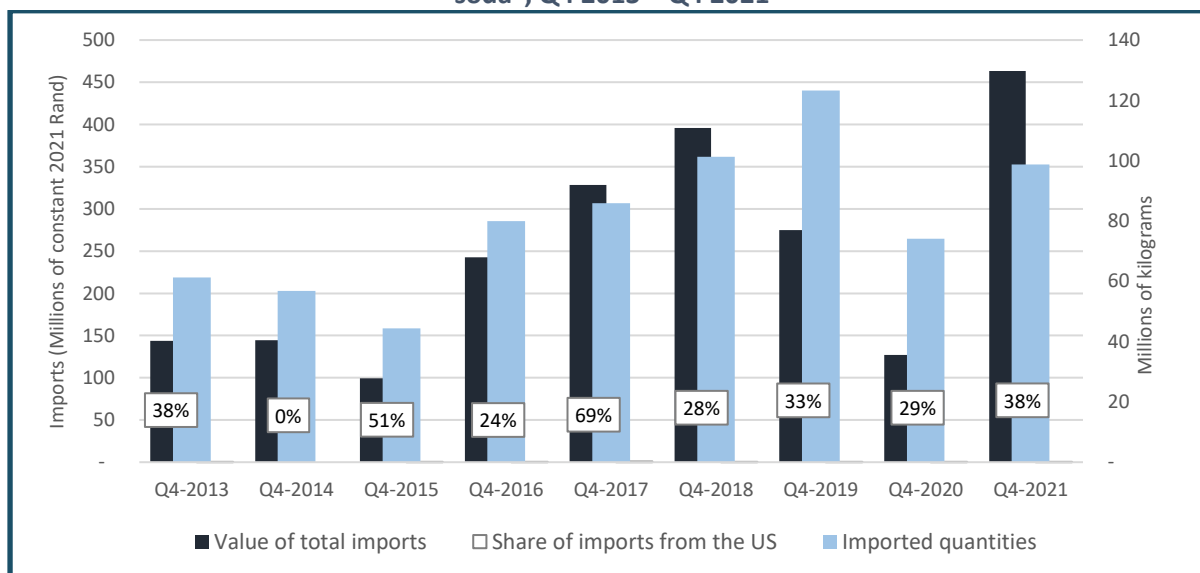
³ <https://sciencing.com/alkaline-vs-basic-6132782.html>

Caustic is typically manufactured by the Castner-Kellner process or the Nelson Diaphragm cell, which involves performing the electrolysis of brine solution to get sodium hydroxide. Alternatively by Loewig’s process (see Coker, 2017).⁴ This would seemingly be an opportunity for local producers of salt to take advantage of, however, the production method of producing caustic soda is an energy-intensive process and requires specialised technologies. There have been attempts to increase domestic production capacity; the attempts fell short of realisation, as unstable electricity supply (key contributor among other factors) hindered the process, and led to the project cancellation. The recent announcement allowing uncapped own generation of electricity could present an opportunity to resuscitate the project.

Prior to the entry of African Chemicals, Sasol and NCP Chlorchem were the main commercial producers of caustic soda in South Africa, with the only other competitor on the continent based in Egypt. This excludes Mondi – the paper products manufacturer – which produces caustic soda for internal use. Africa Chemicals estimates local consumption at about 492 000 dry metric tonnes per annum, with Sasol producing about 12 000 dry metric tonnes per month, and NCP Chlorchem producing about 7 000 dry metric tonnes in a month. The balance is mainly imported by Protea Chemicals and SAPPI.⁵ While this presents an opportunity for new entrants – as was the case with African Chemicals, which has capacity to supply about 10 000 liquid metric tonnes a month – the barriers to entry are high, particularly upfront capital costs and operational capital.

In 2021, global demand for caustic soda had reached 75.9 million tonnes, representing a market worth an estimated R455 billion per annum. Global demand is expected to reach an estimated 89.6 million tonnes in 2024. Locally, an estimated 228 000 dry metric tonnes of caustic soda are manufactured, far below the demand level. Thus 98.7 million kilograms (about 98 731 metric tonnes) were imported in the fourth quarter of 2021. This has been the trend in the local caustic market, which prompted the International Trade Administration Commission (ITAC) in 2018, after an application by the Rustenburg Base Metal Refiners, to recommend the creation of a rebate provision for the importation of caustic soda.⁶ Graph 4 shows imports of caustic soda.

Graph 4: Imports of Sodium hydroxide “caustic soda” in aqueous solution “soda lye or liquid soda”, Q4 2013 – Q4 2021



Source: Calculated from ITC Trade Map data. Downloaded from <https://www.trademap.org> in May 2022.

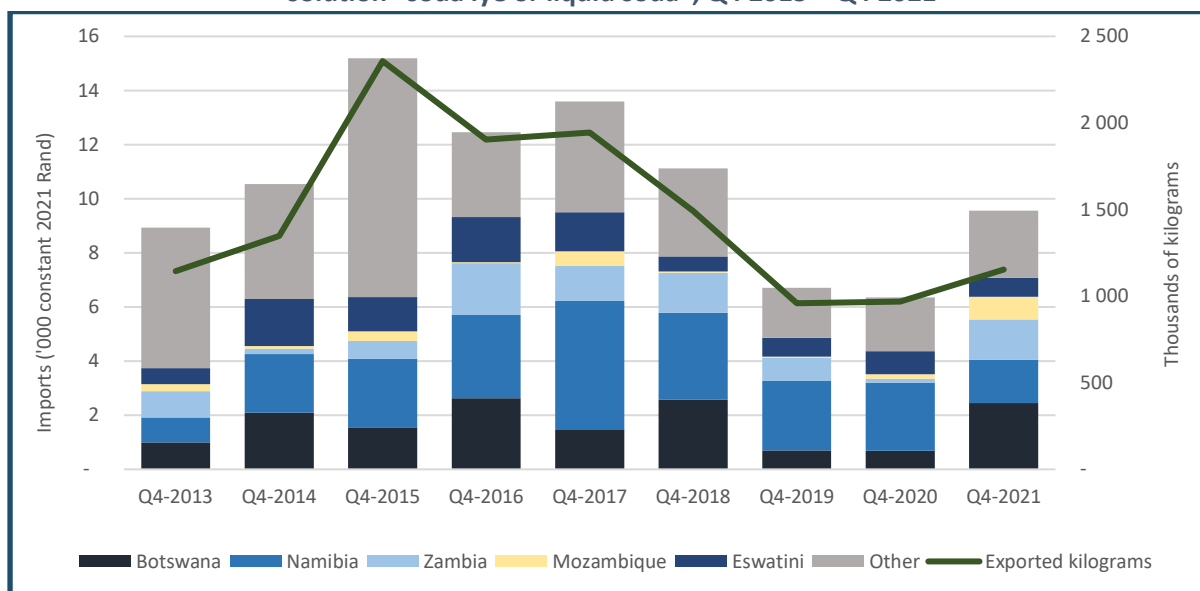
⁴ Coker, A.K. (2007). Ludwig's Applied Process Design for Chemical and Petrochemical Plants. Ludwig's Applied Process Design for Chemical and Petrochemical Plants. 2. 10.1016/B978-0-7506-7766-0.X5000-3.

⁵ <https://www.africhemicals.co.za/projects/dissolution-plant-project>

⁶ http://www.itac.org.za/upload/document_files/20181116093442_Report-592.pdf

South Africa exported about R9.6 million worth of caustic soda in the fourth quarter of 2021, up from R6.4 million in the fourth quarter of 2020. Fourth quarter exports have fluctuated since peaking at R15.2 million in the fourth quarter of 2015. As of the fourth quarter of 2021, Botswana is the top export destination in Rand terms, followed by Namibia and Zambia (see Graph 5).

Graph 5: South Africa’s top export destinations for Sodium hydroxide “caustic soda” in aqueous solution “soda lye or liquid soda”, Q4 2013 – Q4 2021



Source: Calculated from ITC Trade Map data. Downloaded from <https://www.trademap.org> in May 2022.

Product 3: Parts of machinery for working mineral substances of heading 8474, n.e.s.

Parts of machinery for working mineral substances of heading 8474, n.e.s. (H.S. 84749000) refers to components and accessories for heavy equipment used in industries like mining and construction to sort, separate, wash as well as crush earth, stones and ores, among other uses. The product was ranked 60th in the Top 200 list of imports by Rand value, with imports valued at R585.7 million and 7.8 million kilograms imported (see Table 3).

Table 3: Product key data – Parts of machinery for working mineral substances of heading 8474, n.e.s., Q4 2021

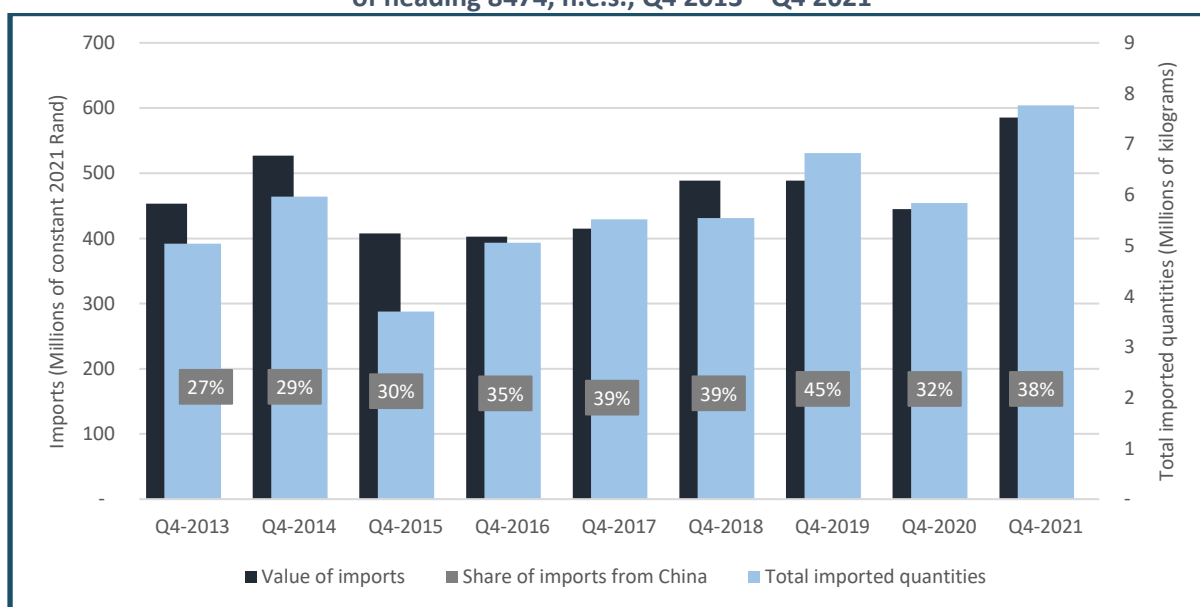
KEY DATA	NOT PREVIOUSLY MADE IN SOUTH AFRICA	PREVIOUSLY MADE BUT CANNOT COMPETE IN FACE OF LOW-COST COMPETITORS	CURRENTLY MADE AND IMPORTS INCREASING OVER TIME
Rank in Top 100 imports by Rand value			60th
Rand value of imports			R585.7 million
Rank in Top 50 imports by quantity			N/A
Quantity of imports			7.8 million kilograms
Capital good or consumer good			Capital good
If intermediate good; what value chain?			Heavy machinery
Good for final consumption (yes/no)			Yes
Designation status			Not designated

South Africa has a rich mining history, with the sector at the heart of South Africa’s industrialisation. The sector has backwards and forward linkages in the economy and is important for labour absorption, particularly of low- to semi-skilled labour. Generally, the sector’s operations are deeply linked to a reliable supply of the necessary equipment and related components. Without a stable supply of machinery and components, effective extraction of minerals would be hindered, affecting both the profitability and the sustainability of the sector. The same outlook is true for construction and industrial equipment. Without components these industries cannot function optimally, making the manufacturing of parts of machinery for working mineral substances a vital part of the value chain.

South Africa has several components and equipment manufacturers within its borders, who not only supply domestic markets but also manufacture for the global value chain. Manufacturers operating in the country include Hitachi, Sandvik, Bell Equipment, and Barloworld SA (see TIPS, 2021, for a comprehensive list).⁷ The sector is largely dominated by multinationals, and except for one or two players the smaller private firms operating in the sector are mainly foreign-owned, with a similar trend in automotive components manufacturing.⁸ This presents an opportunity to develop South African manufacturing capacity (likely with foreign technology), and leverage regional markets created by multinational corporations using South Africa as a conduit to the rest of the African market.

Imports rose to R585.7 million in the fourth quarter of 2021, from R445.2 million in the fourth quarter of 2020 (see Graph 6). About 38% of the total value of imports came from China, with another 16% from India as well as 10% from Germany, among others.

Graph 6: Imports of parts of machinery for working mineral substances of heading 8474, n.e.s., Q4 2013 – Q4 2021



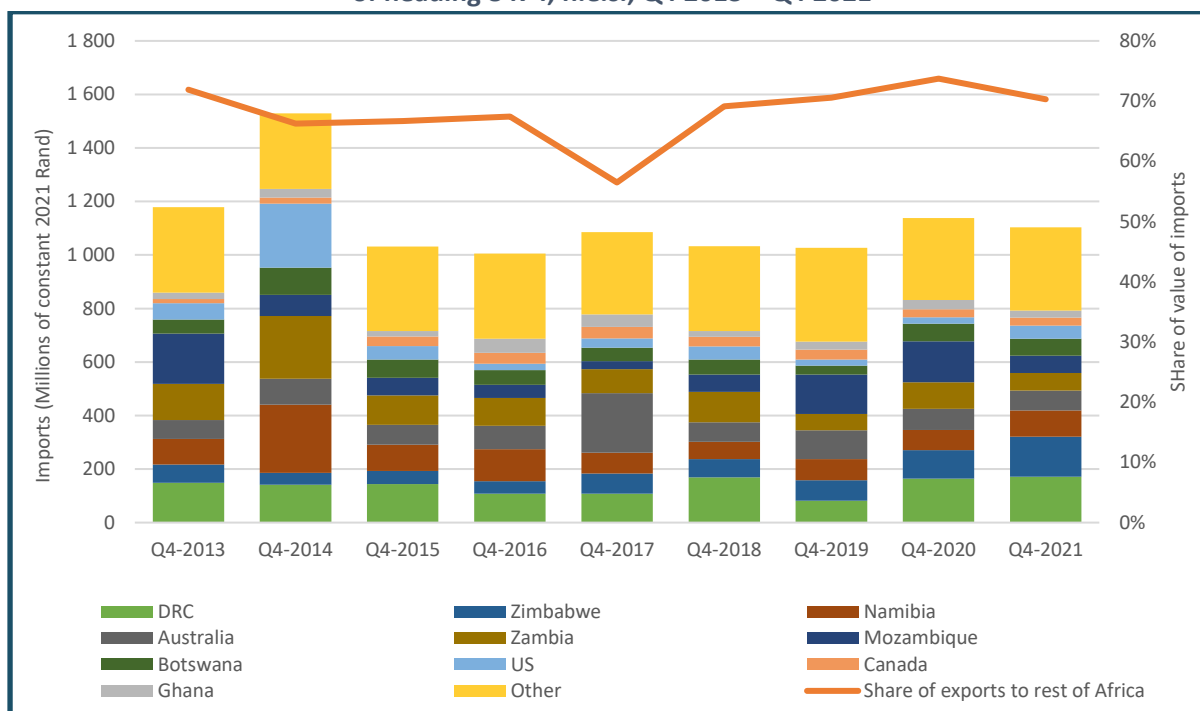
Source: Calculated from ITC Trade Map data. Downloaded from <https://www.trademap.org> in May 2022.

South Africa is a net exporter of parts of machinery for working mineral substances of heading 8474, n.e.s. Exports amounted to R1.1 billion in the fourth quarter of 2021, down about 3% from the fourth quarter of 2020. About R171.5 million worth of these exports went to the Democratic Republic of the Congo (DRC), with another 14% to Zimbabwe. In all, the exports to the top 10 destinations accounted for 72% of total exports, and also included countries outside the continent. Among others, these included Australia (R73.2 million); the US (R49.2 million); and Canada (R30.3 million). Graph 7 shows exports by destination.

⁷ TIPS. (2021). <https://www.tips.org.za/manufacturing-data/manufacturing-sectors/item/4196-capital-equipment-2021>

⁸ Rustomjee, Z., Kaziboni, L. and Steuart, I., 2018. Structural transformation along metals, machinery and equipment value chain—developing capabilities in the metals and machinery segments.

Graph 7: South Africa's top export destinations for machinery for working mineral substances of heading 8474, n.e.s., Q4 2013 – Q4 2021



Source: Calculated from ITC Trade Map data. Downloaded from <https://www.trademap.org> in May 2022.

Product 4: Articles of plastics and articles of other materials of heading 3901 to 3914, n.e.s: Other

Though there is no standard technical description for Articles of plastics and other materials, because the products are recorded as “other”, this product (HS 39269090) includes a range of plastic products such as nylon cable ties, roller pulley wheels, and plastic moulds and polyvinyl chloride (PVC) edge banding (used to seal plywood edges), among others. This product has a general import duty of 20%. Table 4 shows the key data for this product, including the Rand value of imports, import quantities, as well as the designation status for the fourth quarter of 2021.

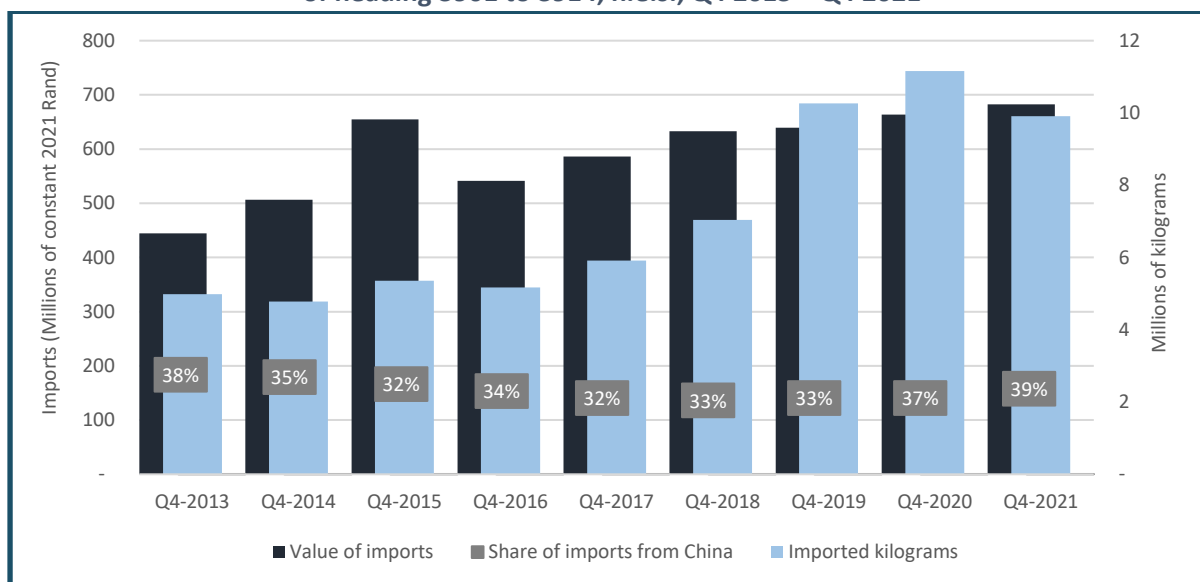
Table 4: Product key data – Articles of plastics and articles of other materials of heading 3901 to 3914, n.e.s., Q4 2021

KEY DATA	NOT PREVIOUSLY MADE IN SOUTH AFRICA	PREVIOUSLY MADE BUT CANNOT COMPETE IN FACE OF LOW-COST COMPETITORS	CURRENTLY MADE IN SOUTH AFRICA AND IMPORTS DECREASING OVER TIME
Rank in Top 100 imports by Rand value			51st
Rand value of imports			R681.4 million
Rank in Top 50 imports by quantity			N/A
Quantity of imports			9.9 million kilograms
Capital good or consumer good			Capital good
If intermediate good; what value chain?			Various: including construction
Good for final consumption (yes/no)			Yes
Designation status			Not Designated

Imports of articles of plastics and articles of other materials of heading 3901 to 3914 n.e.s. grew by about 3% in the year to the fourth quarter of 2021. In real terms, this is the highest fourth quarter

value recorded. The bulk of the imports (39%) came from China, with another 15% from Germany, and 8% from the US. Other countries from which South Africa imported these products include Italy, the Netherlands and Thailand, among others. Graph 8 shows the value of imports, along with imported quantities and the share of imports (in value) from the top import source (China).

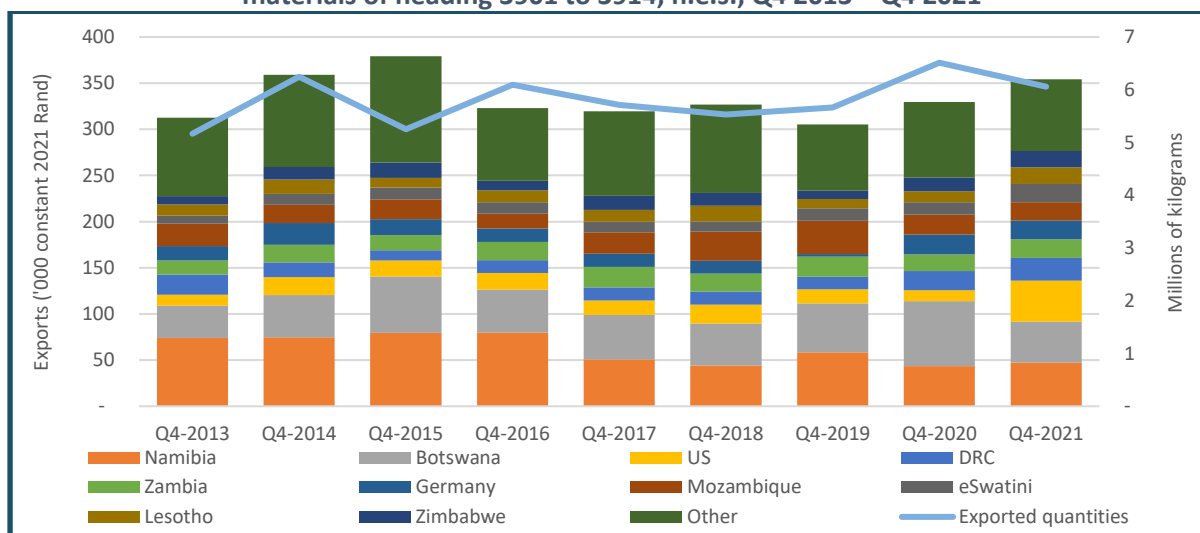
Graph 8: Imports of articles of plastics and articles of other materials of heading 3901 to 3914, n.e.s., Q4 2013 – Q4 2021



Source: Calculated from ITC Trade Map data. Downloaded from <https://www.trademap.org> in May 2022.

Some local production exists, though the extent is unclear. Some of these products are destined for export markets within and outside the continent. In the fourth quarter of 2021, exports amounted to R354.3 million, up about 7% from the same period in 2020. About 78% of total exports went to 10 countries, eight of which are African countries, while the other two are the US and Germany (see Graph 9).

Graph 9: South Africa's top export destinations for articles of plastics and articles of other materials of heading 3901 to 3914, n.e.s., Q4 2013 – Q4 2021



Source: Calculated from ITC Trade Map data. Downloaded from <https://www.trademap.org> in May 2022.

The domestic plastic industry is supported by the industry association, Plastics SA. In its 2021 Annual Report, Plastics SA reported that the plastic industry in South Africa employed at least 60 000 people across the value chain. The industry is dominated by three companies: Sasol, Safripol and Hosaf, which

all manufacture primary plastics (globally, 100 companies manufacture primary plastics). In addition to these, there are 1 800 smaller manufactures of downstream plastic products, of which most are small and medium enterprises (SMEs). The upstream manufacturing industry is generally hard for SMEs to penetrate because of its high capital intensity. In terms of research and development in the industry, several institutions are involved including the Council for Scientific and Industrial Research (CSIR) on compostable plastics and waste-to-energy systems, the Plastics Industry Skills Development, Testing and Innovation cluster, Safripol, Mpact and Shisalanga Construction.

Bottlenecks in the industry include the high costs of raw materials and primary plastics, insufficient research and development, environmental and health concerns, constrained consumer spending, relatively uncompetitive manufacturing equipment, and the relatively small size of the regional and domestic market. The government has established a Plastics Industry Master Plan aimed at mitigating these challenges for the growth of the industry.

Product 5: Terephthalic acid and its salts

Terephthalic acid and its salts (HS 29173600) are a useful import product in the chemical and plastics industries in South Africa. Terephthalic acid is an organic compound that is used as a raw material to manufacture polyesters that are known as polyethylene terephthalate (PET). PETs are popularly used as an intermediate product that manufactures PET-bottles, packaging for food items, household, personal care and pharmaceutical products, PET-film, engineering plastics and poultry feed additives.

Table 5: Product key data – Terephthalic acid and its salts , Q4 2021

KEY DATA	NOT PREVIOUSLY MADE IN SOUTH AFRICA	PREVIOUSLY MADE BUT CAN'T COMPETE IN FACE OF LOW-COST COMPETITORS	LOCAL PRODUCTION UNCLEAR AND IMPORTS DECREASING OVER TIME
Rank in Top 100 imports by Rand value			58th
Rand value of imports			R591.8 million
Rank in Top 50 imports by quantity			33rd
Quantity of imports			86.6 million kilograms
Capital good or consumer good			Capital good
If intermediate good; what value chain?			Various: Plastics, fabrics
Good for final consumption (yes/no)			No
Designation status			Not Designated

Terephthalic acid is one of the primary raw materials used in producing PET, which is a useful intermediate product in the polyester chain. PET⁹ is then used in the manufacture of carbonated drink bottles, water bottles, plastic jars, vegetable punnets, food trays and strapping tape. It is also used in the textile industry (where it is called polyester). In South Africa, Safripol¹⁰ is reported to be the only domestic producer of PET, and imports the Terephthalic acid from outside South Africa. As there is an established PET manufacturing industry in South Africa, ITAC in March 2020 increased the import duty of PET from 10% to 15%, in an effort to encourage buying from local producers. Though local production of Terephthalic acid is unknown, its imports are important as they feed into polyester

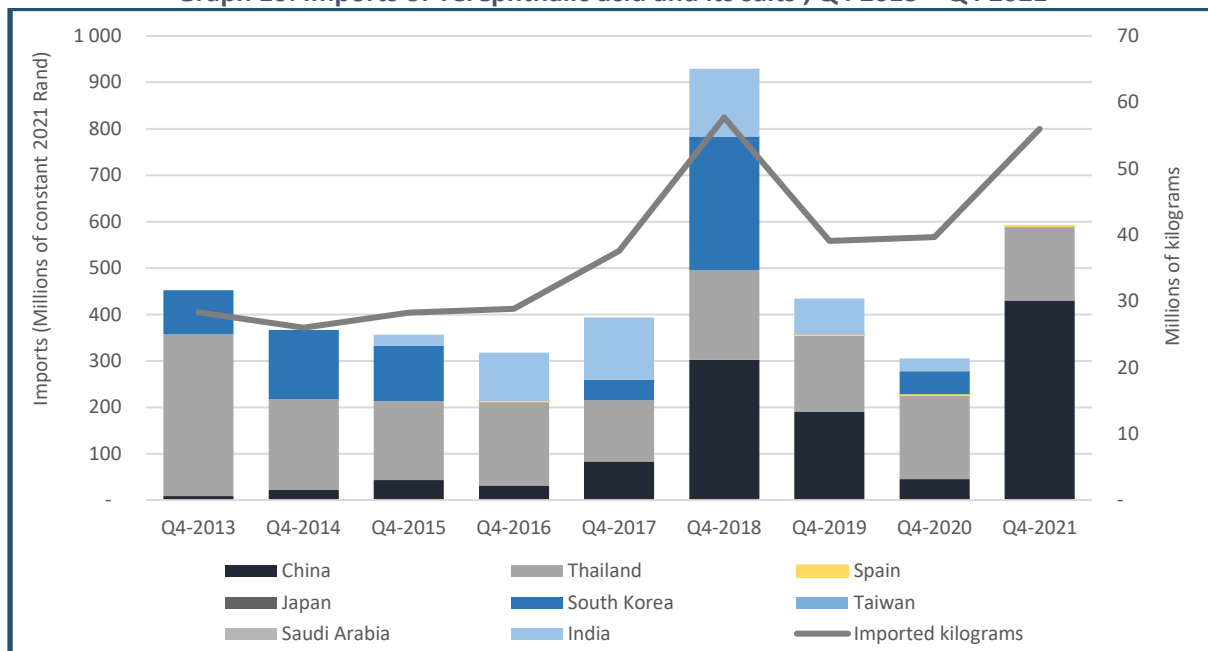
⁹ <https://www.plasticsinfo.co.za/tag/polyethylene-terephthalate/>

¹⁰ <https://kap.co.za/diversified-chemical/polymers/>

chains that produce recyclable PETs -- the country boasts of having one of the highest¹¹ recycling rates of in the world.

Fourth quarter imports peaked at R929.3 million in the fourth quarter of 2018, after which they fell to R305.2 million in the fourth quarter of 2020 due to the COVID-19 pandemic. Nevertheless, imports surged in the fourth quarter of 2021, surpassing pre-COVID levels. Imports of this product primarily come from China and Thailand, with sporadic imports from countries such as Spain, South Korea and India (see Graph 10). There are barely any exports of this product, suggesting that all imports and any local production is for domestic consumption.

Graph 10: Imports of Terephthalic acid and its salts , Q4 2013 – Q4 2021



Source: Calculated from ITC Trade Map data. Downloaded from <https://www.trademap.org> in May 2022.

¹¹ <https://www.plasticsinfo.co.za/2019/08/22/south-african-pet-recycling-rates-amongst-the-highest-in-the-world/>

ANNEXURE 1: TOP 200 IMPORT PRODUCTS BY RAND VALUE, Q4 2021

RANK	HS CODE	PRODUCT DESCRIPTION	IMPORT VALUE, RAND BILLION	CHANGE IN RANK Q4 2020 - Q4 2021	DESIGNATION STATUS
1	27090000	Crude oil	23.73	No change	Not designated
2	27101230	Diesel	19.15	2	Not designated
3	98010040	Original equipment components: for goods vehicles	10.91	No change	
4	27101202	Light oils and preparations: Petrol	9.27	4	Not designated
5	98010030	Automotive components: For motor cars	9.02	-3	
6	85171210	Cellphones	7.68	-1	Not designated
7	87032290	Cars and related vehicles: Cylinder capacity 1 000 cm3 to 1 500 cm3	4.08	3	Not designated
8	85176290	Routers and set-top boxes: Other	3.20	-2	Not designated
9	98010045	Original equipment components: for goods vehicles	3.09	2	
10	71081300	Gold, in semi-manufactured forms, for non-monetary purposes	2.68	7	Not designated
11	31021000	Urea, whether or not in aqueous solution	2.55	13	Not designated
12	28182000	Aluminium oxide (excluding artificial corundum)	2.46	4	Not designated
13	87032390	Cars and related vehicles: cylinder capacity 1 500 cm3 to 3 000 cm3	2.41	-6	Not designated
14	74081100	Wire of refined copper, with a maximum cross-sectional dimension of > 6 mm	2.31	6	Not designated
15	33021000	Mixtures of odoriferous substances and mixtures, incl. alcoholic solutions of a kind used in the food and drink industries	2.09	No change	Not designated
16	87032190	Cars and related vehicles: cylinder capacity not exceeding 1 000 cm3	1.97	-4	Not designated
17	10063000	Semi-milled or wholly milled rice, whether or not polished or glazed	1.89	-8	Not designated
18	71023100	Non-industrial diamonds unworked or simply sawn, cleaved or bruted	1.87	-5	Not designated
19	85177090	Parts for telephones, routers and other telecoms devices	1.69	-1	Not designated
20	85044000	Static converters	1.57	6	Not designated
21	38220000	Diagnostic or laboratory reagents (pharmaceutical chemicals)	1.49	-2	Not designated
22	90189000	Instruments and appliances used in medical, surgical or veterinary sciences, n.e.s.	1.48	No change	Not designated
23	84314990	Parts of machinery of heading 8426, 8429 and 8430, n.e.s.: Other	1.44	-2	Not designated

RANK	HS CODE	PRODUCT DESCRIPTION	IMPORT VALUE, RAND BILLION	CHANGE IN RANK Q4 2020 - Q4 2021	DESIGNATION STATUS
24	27101226	Light oils and preparations, of petroleum or bituminous minerals: Illuminating kerosene	1.43	214	Not designated
25	87033290	Cars and related vehicles: cylinder capacity 1 000 cm ³ to 2 500 cm ³	1.42	4	Not designated
26	98010015	Automotive components: for tractors and buses	1.27	16	
27	84295200	Self-propelled bulldozers, etc.: With 360 degree revolving superstructure	1.26	7	Not designated
28	27160000	Electrical energy	1.23	9	Not designated
29	85299075	Parts suitable for use solely or principally with transmission and reception apparatus: Display panels	1.22	21	30%-60%, 20%-100% designated for components
30	84715000	Processing units for automatic data-processing machines	1.18	-7	Not designated
31	27111100	Natural gas, liquefied	1.16	8	Not designated
32	87089990	Parts and accessories for tractors and buses	1.15	1	Not designated
33	27101207	Light oils and preparations: Aviation kerosene	1.12	37	Not designated
34	87082900	Parts and accessories of bodies for tractors and buses	1.11	-4	Not designated
35	84439900	Parts and accessories of printers, copying machines and facsimile machines, n.e.s.	1.09	-10	Not designated
36	27011900	Coal, whether or not pulverised, non-agglomerated	1.05	366	Not designated
37	87032490	Cars and related vehicles: cylinder capacity exceeding 3 000 cm ³	1.03	-1	Not designated
38	27101235	Light oils and preparations: Residual fuel oils	1.01	91	Not designated
39	98010025	Original equipment components: for buses and taxis	1.01	33	Not designated
40	17011300	Raw cane sugar, in solid form, not containing added flavouring or colouring	0.87	No change	Not designated
41	61091000	T-shirts, singlets and other vests of cotton, knitted or crocheted	0.86	4	100% designated
42	87033390	Cars and related vehicles: cylinder capacity exceeding 2 500 cm ³	0.85	-4	Not designated
43	84798990	Machines and mechanical appliances, n.e.s.: Other	0.84	-15	Not designated
44	87041090	Dumpers for off-highway use : Other	0.83	-12	Not designated
45	23040000	Oilcake and other solid residues, resulting from the extraction of soya-bean oil	0.81	-1	Not designated
46	27111200	Propane, liquefied	0.81	139	Not designated
47	31054000	Ammonium dihydrogen orthophosphate	0.80	4	Not designated

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48	88033000	Parts of aeroplanes or helicopters, n.e.s. (excluding those for gliders)	0.79	-5	Not designated
49	95030090	Tricycles, scooters, pedal cars and similar wheeled toys: Other	0.76	8	Not designated
50	87042181	Vehicles for the transport of goods: Other	0.69	17	Not designated
51	39269090	Articles of plastics and articles of other materials of heading 3901 to 3914, n.e.s.: Other	0.68	-2	Not designated
52	28439000	Inorganic or organic compounds of precious metals	0.68	-21	Not designated
53	02071210	Frozen fowls of the species Gallus domesticus: Mechanically deboned meat	0.65	8	Not designated
54	27131200	Petroleum coke, calcined	0.64	38	Not designated
55	88024000	Aeroplanes and other powered aircraft of an of an unladen weight > 15.000 kg	0.64	-20	Not designated
56	84717000	Storage units for automatic data-processing machines	0.61	-4	Not designated
57	21069090	Food preparations, n.e.s.: Other	0.60	-11	Not designated
58	29173600	Terephthalic acid and its salts	0.59	65	Not designated
59	84733000	Parts and accessories of automatic data-processing machines	0.59	-3	Not designated
60	84749000	Parts of machinery for working mineral substances of heading 8474, n.e.s.	0.59	17	Not designated
61	27101215	Light oils and preparations: Illuminating kerosene	0.58	379	Not designated
62	85437000	Electrical machines and apparatus, having individual functions, n.e.s. in chapter 85	0.58	No change	Not designated
63	27011200	Bituminous coal, whether or not pulverised, non-agglomerated	0.57	-22	Not designated
64	33049990	Beauty or make-up preparations and preparations for the care of the skin: Other	0.56	-6	Not designated
65	85152100	Fully or partly automatic machines for resistance welding of metals	0.56	3008	Not designated
66	31042000	Potassium chloride for use as fertiliser	0.55	55	Not designated
67	84089090	Compression-ignition internal combustion piston engine "diesel or semi-diesel engine": Other	0.54	22	Not designated
68	84314300	Parts for boring or sinking machinery of subheading 8430.41 or 8430.49, n.e.s.	0.53	-9	Not designated
69	84014000	Parts of nuclear reactors, n.e.s. [Euratom]	0.53	4709	Not designated
70	73269090	Articles of iron or steel, n.e.s. (excluding cast articles or articles of iron or steel wire): Other	0.53	-1	100% designated
71	72083900	Flat-rolled products of iron or non-alloy steel, of a width of >= 600 mm, in coils, simply hot-rolled, not clad, plated or coated, of a thickness of < 3 mm, not pickled, without patterns in relief	0.52	284	100% designated

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72	28141000	Anhydrous ammonia	0.51	133	Not designated
73	84099990	Parts suitable for use solely or principally with diesel or semi-diesel engine, n.e.s.: Other	0.51	No change	Not designated
74	48115990	Paper and paperboard, surface-coloured, surface-decorated or printed, coated, impregnated or covered with artificial resins or plastics: Other	0.51	-3	Not designated
75	85444990	Electric conductors, for a voltage <= 1.000 V, insulated, not fitted with connectors: Other	0.51	59	90% designated
76	84807100	Injection or compression-type moulds for rubber or plastics	0.50	-21	Not designated
77	84148000	Air pumps, air or other gas compressors and ventilating or recycling hoods incorporating a fan	0.50	27	Not designated
78	27011100	Anthracite, whether or not pulverised, non-agglomerated	0.50	2808	Not designated
79	22083010	Whiskies : In containers holding 2 li or less	0.50	-25	Not designated
80	27040000	Coke and semi-coke of coal, of lignite or of peat, whether or not agglomerated	0.49	1320	Not designated
81	39072090	Polyethers, in primary forms (excl. polyacetals and goods of 3002 10): Other	0.49	22	Not designated
82	84834000	Gears and gearing for machinery ball or roller screws; gear boxes and other speed changers, including torque converters	0.48	-14	Not designated
83	84433100	Printers and fax machines	0.48	-30	Not designated
84	64039990	Footwear with rubber or plastic soles: Other	0.48	-19	100% designated
85	85258090	Television cameras, digital cameras and video camera recorders: Other	0.48	-22	Not designated
86	87083090	Brakes and servo-brakes and their parts, n.e.s.: Other	0.47	-12	Not designated
87	28151200	Sodium hydroxide "caustic soda" in aqueous solution "soda lye or liquid soda"	0.47	267	Not designated
88	90318000	Instruments, appliances and machines for measuring or checking	0.46	7	Not designated
89	5040010	Guts, bladders and stomachs of animals: Sausage casings	0.45	-8	Not designated
90	33029090	Mixtures of odoriferous substances and mixtures, incl. alcoholic solutions: Other	0.45	-8	Not designated
91	62034210	Men's or boys' trousers, bib and brace overalls, breeches and shorts, of cotton	0.45	-25	100% designated
92	39069090	Acrylic polymers, in primary forms (excluding poly"methyl methacrylate"): Other	0.44	24	Not designated
93	85443000	Ignition wiring sets and other wiring sets for vehicles, aircraft or ships	0.43	-18	90% designated
94	85287290	Reception apparatus for television: Other	0.43	104	30% designated
95	85371090	Boards, cabinets and similar combinations of apparatus for electric control or the distribution of electricity, for a voltage <= 1.000 V: Other	0.43	-12	Not designated

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96	76012000	Unwrought aluminium alloys	0.43	52	Not designated
97	38112100	Prepared additives for oil lubricants containing petroleum oil or bituminous mineral oil	0.43	-21	Not designated
98	22030090	Beer made from malt: Other	0.42	8	Not designated
99	85166000	Electric ovens, cookers, cooking plates and boiling rings, electric grillers and roasters, for domestic use	0.42	-20	Not designated
100	90183900	Needles, catheters, cannulae and the like, used in medical sciences	0.42	-14	Not designated
101	25030000	Sulphur of all kinds	0.42	199	Not designated
102	84139100	Parts of pumps for liquids, n.e.s.	0.42	-5	Not designated
103	84271000	Self-propelled trucks fitted with lifting or handling equipment	0.41	21	Not designated
104	84839000	Toothed wheels, chain sprockets and other transmission elements presented separately	0.41	-11	Not designated
105	84795000	Industrial robots, n.e.s.	0.41	623	Not designated
106	85183000	Headphones and earphones, with or without microphone, and sets consisting of a microphone and one or more loudspeakers	0.40	7	Not designated
107	84304100	Self-propelled boring or sinking machinery for boring earth or extracting minerals or ores	0.40	-13	Not designated
108	38170010	Mixed alkylbenzenes and mixed alkylnaphthalenes produced by the alkylation of benzene and naphthalene	0.39	No change	Not designated
109	27101900	Medium oils and preparations, of petroleum or bituminous minerals	0.39	71	Not designated
110	84219990	Parts of machinery and apparatus for filtering or purifying liquids or gases, n.e.s.: Other	0.39	-14	Not designated
111	76042965	Bars, rods and solid profiles, of aluminium alloys, n.e.s. 370 mm	0.39	-21	Not designated
112	87169090	Parts of trailers and semi-trailers and other vehicles not mechanically propelled, n.e.s.: Other	0.39	6	Not designated
113	87042183	Motor vehicles for the transport of goods	0.39	-8	Not designated
114	74031100	Copper, refined, in the form of cathodes and sections of cathodes	0.38	-26	Not designated
115	22021010	Waters, incl. mineral and aerated, with added sugar, sweetener or flavour (collapsible plastic tubes)	0.38	-17	Not designated
116	84295120	Self-propelled front-end shovel loaders	0.38	67	Not designated
117	51011900	Greasy wool, incl. fleece-washed wool, neither carded nor combed	0.38	46	100% designated
118	84082000	Compression-ignition internal combustion piston engine	0.37	-3	Not designated

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119	71023900	Diamonds, worked, but not mounted or set (excluding industrial diamonds)	0.37	50	Not designated
120	72026000	Ferro-nickel	0.36	153	100% designated
121	47032100	Semi-bleached or bleached coniferous chemical wood pulp	0.36	80	Not designated
122	82073000	Interchangeable tools for pressing, stamping or punching	0.35	90	Not designated
123	31022100	Ammonium sulphate	0.35	187	Not designated
124	69091900	Ceramic wares for chemical or other technical uses	0.35	-77	Not designated
125	24022010	Cigarettes, containing tobacco : Imported from Switzerland	0.34	143	Not designated
126	84295900	Self-propelled mechanical shovels, excavators and shovel loaders	0.34	9	Not designated
127	33030090	Perfumes and toilet waters (excl. aftershave lotions, personal deodorants and hair lotions): Other	0.34	11	Not designated
128	85235100	Data storage devices for recording data from an external source [flash memory cards or flash electronic storage cards]	0.33	14	Not designated
129	29053100	Ethylene glycol "ethanediol"	0.33	141	Not designated
130	85235210	Cards incorporating one or more electronic integrated circuits "smart cards": Digital	0.33	-5	Not designated
131	85072000	Lead acid accumulators (excl. spent and starter batteries)	0.33	-22	Not designated
132	79011100	Unwrought zinc, not alloyed, containing by weight >= 99,99% of zinc	0.32	-68	Not designated
133	84133000	Fuel, lubricating or cooling medium pumps for internal combustion piston engine	0.32	-7	Not designated
134	84821000	Ball bearings	0.32	6	Not designated
135	85122000	Electrical lighting or visual signalling equipment for motor vehicles	0.32	-7	Not designated
136	39023000	Propylene copolymers, in primary forms	0.32	20	Not designated
137	90211000	Orthopaedic or fracture appliances	0.32	-36	Not designated
138	39041000	Poly"vinyl chloride", in primary forms, not mixed with any other substances	0.31	143	Not designated
139	72254000	Flat-rolled products of alloy steel other than stainless, of a width of >= 600 mm, not further worked than hot-rolled, not in coils (excluding products of silicon-electrical steel)	0.31	121	100% designated
140	84818079	"Appliances for pipes, boiler shells, tanks, vats or the like	0.31	-4	70% designated
141	85389090	Parts suitable for use solely or principally with the apparatus of heading 8535, 8536 or 8537, n.e.s.: Other	0.31	17	Not designated
142	42029200	Bags and similar containers, with outer surface of plastic sheeting or textile materials	0.31	12	Not designated

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143	84729000	Office machines, n.e.s.	0.31	-52	Not designated
144	32061100	Pigments and preparations based on titanium dioxide of a kind used for colouring any material or produce colorant preparations	0.30	16	Not designated
145	20097900	Apple juice, unfermented, Brix value > 20 at 20°C	0.30	6	Not designated
146	85423900	Electronic integrated circuits (excl. such as processors, controllers, memories and amplifiers)	0.30	No change	Not designated
147	35079000	Enzymes and prepared enzymes, n.e.s. (excluding rennet and concentrates thereof)	0.30	20	Not designated
148	90328900	Regulating or controlling instruments and apparatus	0.30	-34	Not designated
149	85444290	Electric conductors for a voltage <= 1.000 V, insulated, fitted with connectors, n.e.s.: Other	0.30	6	90% designated
150	84249000	Parts of fire extinguishers, spray guns and similar appliances for projecting, dispersing or spraying liquids or powders, n.e.s.	0.30	14	Not designated
151	23091090	Dog or cat food, put up for retail sale: Other	0.30	51	Not designated
152	84292000	Self-propelled graders and levellers	0.30	75	Not designated
153	84818090	Appliances for pipes, boiler shells, tanks, vats or the like: Other	0.30	-33	70% designated
154	21011190	Extracts, essences and concentrates, of coffee : Other	0.29	-47	Not designated
155	34021300	Non-ionic organic surface-active agents, whether or not put up for retail sale (excluding soap)	0.29	20	Not designated
156	85269100	Radio navigational aid apparatus	0.29	109	Not designated
157	88023000	Aeroplanes and other powered aircraft of an unladen weight > 2.000 kg but <= 15.000 kg (excl. helicopters and dirigibles)	0.29	-70	Not designated
158	84223000	Machinery for filling, closing, sealing or labelling bottles, cans, boxes, bags or other containers; machinery for capsuling bottles, jars, tubes and similar containers; machinery for aerating beverages	0.29	-13	Not designated
159	40012200	Technically specified natural rubber "TSNR"	0.29	144	Not designated
160	18069000	Chocolate and other preparations containing cocoa, in containers or immediate packings of <= 2 kg	0.29	-27	Not designated
161	49019900	Printed books, brochures and similar printed matter	0.29	-34	Not designated
162	30023000	Vaccines for veterinary medicine	0.29	-13	Not designated
163	84295190	Self-propelled front-end shovel loaders: Other	0.29	-19	Not designated
164	84151010	"Air conditioning machines designed to be fixed to a window, wall, ceiling or floor, self-contained or 'split-system'"	0.28	-27	Not designated

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165	29349900	Nucleic acids and their salts, whether or not chemically defined	0.28	-117	Not designated
166	84143000	Compressors for refrigerating equipment	0.28	-54	Not designated
167	84719000	Magnetic or optical readers, machines for transcribing data onto data media in coded form and machines for processing such data, n.e.s.	0.28	137	Not designated
168	64041190	Sports footwear : Other	0.28	-36	100% designated
169	27081000	Pitch obtained from coal tar or from other mineral tars	0.28	252	Not designated
170	85423100	Electronic integrated circuits as processors and controllers	0.28	-11	Not designated
171	62046210	Women's or girls' trousers, bib and brace overalls, breeches and shorts of cotton: Other, trousers	0.28	-49	100% designated
172	19021900	Uncooked pasta, not stuffed or otherwise prepared, not containing eggs	0.28	85	Not designated
173	99000000	Commodities not elsewhere specified	0.28	-71	Unclear
174	28362000	Disodium carbonate	0.28	-31	Not designated
175	71129200	Waste and scrap of platinum	0.28	2336	Not designated
176	85165000	Microwave ovens	0.28	-59	Not designated
177	84799000	Parts of machines and mechanical appliances, n.e.s.	0.27	-93	Not designated
178	84181000	Combined refrigerator-freezers, with separate external doors	0.27	8	Not designated
179	84229000	Parts of dishwashing machines, packing or wrapping machinery and other machinery and apparatus of heading 8422, n.e.s.	0.27	2	Not designated
180	84099190	Parts suitable for use solely or principally with spark-ignition internal combustion piston engine, n.e.s.: Other	0.27	-39	Not designated
181	84137090	Centrifugal pumps, power-driven: Other	0.26	42	Not designated
182	84718000	Units for automatic data-processing machines	0.26	14	Not designated
183	84291100	Self-propelled bulldozers and angledozers, track laying	0.26	-103	Not designated
184	61051000	Men's or boys' shirts of cotton, knitted or crocheted	0.25	-11	100% designated
185	33061000	Dentifrices, incl. those used by dental practitioners	0.25	94	Not designated
186	84716000	Input or output units for automatic data-processing machines	0.25	31	Not designated
187	84111200	Turbojets of a thrust > 25 kN	0.25	3579	Not designated
188	84822090	Tapered roller bearings, incl. cone and tapered roller assemblies: Other	0.25	19	Not designated

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189	84812000	Valves for oleohydraulic or pneumatic transmission	0.25	-2	70% designated
190	11072020	Roasted malt: Of barley	0.25	76	Not designated
191	95069100	Articles and equipment for general physical exercise, gymnastics or athletics	0.25	-72	Not designated
192	84672990	Electromechanical tools for working in the hand, with self-contained electric motor: Other	0.25	173	Not designated
193	61099000	T-shirts, singlets and other vests of textile materials, knitted or crocheted (excluding cotton)	0.25	-43	100% designated
194	84212330	Oil or petrol-filters for internal combustion engines : Suitable for use with motor vehicle engines	0.24	-37	Not designated
195	84705000	Cash registers incorporating a calculating device	0.24	140	Not designated
196	90261000	Instruments and apparatus for measuring or checking the flow or level of liquids (excluding meters and regulators)	0.24	-5	Not designated
197	90278000	Instruments and apparatus for physical or chemical analysis, or for measuring or checking viscosity, porosity, expansion, surface tension or the like	0.24	-31	Not designated
198	85015290	AC motors, multi-phase, of an output > 750 W but <= 75 kW : Other	0.24	18	Not designated
199	90213100	Artificial joints for orthopaedic purposes	0.24	-31	Not designated
200	87085085	Drive-axles with differential: Other parts of drive axles	0.24	-89	Not designated