Chemicals for use in industry, science and photography, as well as in agriculture, horticulture and forestry; unprocessed artificial

resins, unprocessed plastics; fire extinguishing and fire prevention compositions; tempering and soldering preparations;

substances for tanning animal skins and hides; adhesives for use in industry; putties and other paste fillers; compost, manures,

fertilizers; biological preparations for use in industry and science.

Explanatory Note

Class 1 includes mainly chemical products for use in industry, science and agriculture, including those which go to the making of products belonging to other classes.

This Class includes, in particular:

- sensitized paper;
- tyre repairing compositions;
- salt for preserving, other than for foodstuffs;
- certain additives for use in the food industry, for example, pectin, lecithin, enzymes and chemical preservatives;
- certain ingredients for use in the manufacture of cosmetics and pharmaceuticals, for example, vitamins, preservatives and antioxidants;
- certain filtering materials, for example, mineral substances, vegetable substances and ceramic materials in particulate form.

This Class does not include, in particular:

- raw natural resins (Cl. 2), semi-processed resins (Cl. 17);
- chemical preparations for medical or veterinary purposes (Cl. 5);
- fungicides, herbicides and preparations for destroying vermin (Cl. 5);
- adhesives for stationery or household purposes (Cl. 16);
- salt for preserving foodstuffs (Cl. 30);
- straw mulch (Cl. 31).

Indication acetate of cellulose, unprocessed acetates [chemicals]*

acetic anhydride

acetone

acetylene

acetylene tetrachloride

acid proof chemical compositions

acids*

acidulated water for recharging batteries / acidulated water for recharging accumulators



SUMMARY OF CHEMICALS AL-RAFA'A GRO	OUP (PVT) LTD
acrylic resins, unprocessed	
actinium	
activated carbon / activated charcoal	
additives, chemical, to drilling muds / chemical additives to drilling muds	ıds
additives, chemical, to fungicides / chemical additives to fungicides	
additives, chemical, to insecticides / chemical additives to insecticide	 S
additives, chemical, to motor fuel / chemical additives to motor fuel	
adhesive preparations for surgical bandages	
adhesives for billposting	
adhesives for industrial purposes	
adhesives for paperhanging / adhesives for wallpaper	
adhesives for wall tiles	
adjuvants, other than for medical or veterinary purposes	
agar-agar for industrial purposes	
agglutinants for concrete	
agricultural chemicals, except fungicides, herbicides, insecticides and	
parasiticides	
albumenized paper	
albumin [animal or vegetable, raw material]	
alcohol*	
aldehydes*	
alginates for industrial purposes	
alginates for the food industry	
alkalies	
alkaline iodides for industrial purposes	
alkaline metals	
alkaline-earth metals	
alkaloids*	
alum	
alumina	
aluminium acetate*	
aluminium alum	
aluminium chloride	
aluminium hydrate	
aluminium iodide	
aluminium silicate	
americium	
ammonia [volatile alkali] for industrial purposes / volatile alkali [ammo	nia] for
industrial purposes	
ammonia alum	



ammonia*
ammoniacal salts
ammonium aldehyde
ammonium nitrate
ammonium salts
amyl acetate
amyl alcohol
anhydrides
anhydrous ammonia
animal albumen [raw material]
animal carbon
animal carbon preparations
animal charcoal
animal manure
metal annealing preparations
anthranilic acid
anti-boil preparations for engine coolants
anti-frothing solutions for batteries / anti-frothing solutions for accumulators
anti-incrustants
anti-knock substances for internal combustion engines
anti-sprouting preparations for vegetables
anti-tarnishing chemicals for windows
antifreeze
antimony
antimony oxide
antimony sulfide
antioxidants for use in manufacture
antioxidants for use in the manufacture of cosmetics
antioxidants for use in the manufacture of food supplements
antioxidants for use in the manufacture of pharmaceuticals
antistatic preparations, other than for household purposes
argon
arsenic
arsenious acid
artificial sweeteners [chemical preparations]
astatine
auxiliary fluids for use with abrasives
bacterial preparations, other than for medical and veterinary use
bacteriological preparations for acetification
bacteriological preparations, other than for medical and veterinary use



SUMMARY OF CHEMICALS	AL-RAFA'A GROUP (PVT) LTD
barium	
barium compounds	
barium sulfate	
baryta	
baryta paper	
barytes	
bases [chemical preparations]	
basic gallate of bismuth	
bate for dressing skins / dressing, except oils, for skins	
bauxite	
beer preserving agents	
beer-clarifying and preserving agents	
bentonite	
benzene	
benzene derivatives	
benzene-based acids	
benzoic acid	
benzoic sulfimide	
benzol	
berkelium	
bicarbonate of soda for chemical purposes	
bichloride of tin	
bichromate of potassium	
bichromate of soda	
biochemical catalysts	
biological preparations, other than for medical or veterinar	• • •
biological tissue cultures, other than for medical or vetering	ary purposes
biostimulants for plants	
birdlime	
bismuth	
bismuth subnitrate for chemical purposes	
blood charcoal	
blue vitriol / copper sulfate [blue vitriol]	
blueprint cloth	
blueprint paper	
bone charcoal	
borax	
boric acid for industrial purposes	
brake fluid	
brazing fluxes	



SUIVIIVIARY OF CHEIVIICALS	AL-RAFA'A GROUP (PV1) LTD
brazing preparations	
brickwork preservatives, except paints and oils	
bromine for chemical purposes	
by-products of the processing of cereals for industrial purp	oses
caesium	
calcined soda	
calcium carbide	
calcium cyanamide [fertilizer] / calcium cyanamide [fertilise	er]
calcium salts	
californium	
calomel [mercurous chloride]	
camphor, for industrial purposes	
carbide	
carbolineum for the protection of plants	
carbon	
carbon black for industrial purposes	
carbon disulfide	
carbon for filters	
carbon tetrachloride	
carbonates	
carbonic acid	
carbonic hydrates	
casein for industrial purposes	
casein for the food industry	
cassiopium [lutetium] / lutetium [cassiopium]	
catalysts	
catechu	
caustic alkali	
caustic soda for industrial purposes	
caustics for industrial purposes	
cellulose	
cellulose derivatives [chemicals]	
cellulose esters for industrial purposes	
cellulose ethers for industrial purposes	
cement [metallurgy]	
cement for footwear	
cement for mending broken articles	
cement preservatives, except paints and oils	
cement-waterproofing chemicals, except paints	
ceramic compositions for sintering [granules and powders]	



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ceramic materials in particulate form, for use as filtering media

cerium

chemical additives for oils

chemical coatings for ophthalmic lenses

chemical condensation preparations

chemical intensifiers for paper

chemical intensifiers for rubber

chemical preparations for facilitating the alloying of metals

chemical preparations for scientific purposes, other than for medical or veterinary use

chemical preparations for smoking meat

chemical preparations for use in photography

chemical preparations to prevent diseases affecting cereal plants

chemical preparations to prevent diseases affecting vine plants

chemical preparations to prevent mildew

chemical preparations to prevent wheat blight / **chemical** preparations to prevent wheat smut

chemical reagents, other than for medical or veterinary purposes

chemical substances for analyses in laboratories, other than for medical or veterinary purposes / **chemical**

preparations for analyses in laboratories, other than for medical or veterinary purposes

chemical substances for preserving foodstuffs

chemicals for the manufacture of paints

chemicals for the manufacture of pigments

chemicals for use in forestry, except fungicides, herbicides, insecticides and parasiticides

chemicals, except pigments, for the manufacture of enamel

chimney cleaners, chemical

chlorates

chlorides

chlorine

cholic acid

chromates

chrome alum

chrome salts

chromic acid

chromic salts

chromium oxide



cinematographic film, sensitized but not exposed / **cinematographic** films, sensitized but not exposed

citric acid for industrial purposes

clarification preparations / purification preparations

coal saving preparations

cobalt oxide for industrial purposes

collagen for industrial purposes

collodion*

colour-brightening chemicals for industrial purposes / **color-brightening** chemicals for industrial purposes

combusting preparations [chemical additives to motor fuel]

compost

concrete preservatives, except paints and oils

concrete-aeration chemicals

condensation-preventing chemicals

coolants for vehicle engines

corrosive preparations

cream of tartar for chemical purposes

cream of tartar for industrial purposes

cream of tartar for the food industry

creosote for chemical purposes

crotonic aldehyde

cryogenic preparations

cultures of microorganisms, other than for medical and veterinary use

curium

currying preparations for leather

currying preparations for skins

cyanides [prussiates] / prussiates

solutions for cyanotyping

cymene

damp-proofing chemicals, except paints, for masonry

decolorants for industrial purposes / **bleaching** preparations [decolorants] for industrial purposes

defoliants

degreasing preparations for use in manufacturing processes / **grease-removing** preparations for use in

manufacturing processes

dehydrating preparations for industrial purposes

dendrimer-based polymers for use in the manufacture of capsules for pharmaceuticals



descaling	preparations,	other than	for household	purposes

detergent additives to petrol / **detergent** additives to gasoline

detergents for use in manufacturing processes

dextrin [size]

diagnostic preparations, other than for medical or veterinary purposes

diastase for industrial purposes

diatomaceous earth

diazo paper

disincrustants

dispersions of plastics

preparations of the distillation of wood alcohol

distilled water

dolomite for industrial purposes

drilling muds

dry ice [carbon dioxide]

dysprosium

electrophoresis gels

emollients for industrial purposes

emulsifiers

enamel-staining chemicals

engine-decarbonising chemicals / **chemical** preparations for decarbonising engines

enzyme preparations for industrial purposes

enzyme preparations for the food industry

enzymes for industrial purposes

enzymes for the food industry

epoxy resins, unprocessed

erbium

esters*

ethane

ethers*

ethyl alcohol

ethyl ether

europium

expanded clay for hydroponic plant growing [substrate]

fat-bleaching chemicals

fatty acids

ferments for chemical purposes

fermium

ferrocyanides



SUMINIARY OF CHEMICALS	AL-RAFA'A GROUP (PVI) LID
ferrotype plates [photography]	
fertilizers / fertilisers	
fertilizing preparations / fertilising preparations	
filtering materials of chemical substances	
filtering materials of mineral substances	
filtering materials of unprocessed plastics	
filtering materials of vegetable substances	
filtering preparations for the beverages industry	
finishing preparations for use in the manufacture of steel	
fire extinguishing compositions	
fireproofing preparations	
fish meal fertilizers / fish meal fertilisers	
fissionable chemical elements	
fissionable material for nuclear energy	
fixing baths [photography]	
fixing solutions [photography]	
flashlight preparations	
flavonoids [phenolic compounds] for industrial purposes	
flocculants	
flour for industrial purposes	
flower preservatives	
flowers of sulfur for chemical purposes	
fluids for hydraulic circuits / liquids for hydraulic circuits	
fluorine	
fluorspar compounds	
formic acid	
formic aldehyde for chemical purposes	
foundry binding substances	
foundry moulding preparations / foundry molding preparat	tions
foundry sand	
francium	
fuel for nuclear reactors	
fuel-saving preparations	
fuller's earth for use in the textile industry	
fulling preparations	
fulling preparations for use in the textile industry	
gadolinium	
gallic acid for the manufacture of ink	
gallium	
gallnuts	



gallotannic acid galvanizing baths / baths for galvanizing galvanizing preparations gambier gas purifying preparations / preparations for the purification of gas gelatine for industrial purposes gelatine for photographic purposes genes of seeds for agricultural production getters [chemically active substances] glass-frosting chemicals glass-staining chemicals glaziers' putty glucose for industrial purposes glucose for the food industry glucosides glue for industrial purposes
galvanizing preparations gambier gas purifying preparations / preparations for the purification of gas gelatine for industrial purposes gelatine for photographic purposes genes of seeds for agricultural production getters [chemically active substances] glass-frosting chemicals glass-staining chemicals glaziers' putty glucose for industrial purposes glucose for the food industry glucosides glue for industrial purposes
gambier gas purifying preparations / preparations for the purification of gas gelatine for industrial purposes gelatine for photographic purposes genes of seeds for agricultural production getters [chemically active substances] glass-frosting chemicals glass-staining chemicals glaziers' putty glucose for industrial purposes glucose for the food industry glucosides glue for industrial purposes
gas purifying preparations / preparations for the purification of gas gelatine for industrial purposes gelatine for photographic purposes genes of seeds for agricultural production getters [chemically active substances] glass-frosting chemicals glass-staining chemicals glaziers' putty glucose for industrial purposes glucose for the food industry glucosides glue for industrial purposes
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glaziers' putty glucose for industrial purposes glucose for the food industry glucosides glue for industrial purposes
glucose for industrial purposes glucose for the food industry glucosides glue for industrial purposes
glucose for the food industry glucosides glue for industrial purposes
glucosides glue for industrial purposes
glue for industrial purposes
glutamic acid for industrial purposes
gluten [glue], other than for stationery or household purposes
gluten for industrial purposes
gluten for the food industry
glutinous tree-grafting preparations / glutinous preparations for tree-banding /
glutinous preparations for tree
grafting / glutinous tree-banding preparations
glycerides
glycerine for industrial purposes
glycol
glycol ether
gold salts
grafting mastic for trees
grafting wax for trees
graphene
graphite for industrial purposes
guano
gum arabic for industrial purposes
gum solvents / degumming preparations
gum tragacanth for industrial purposes
gums [adhesives] for industrial purposes
gurjun balsam for use in the manufacture of varnish
gypsum for use as a fertilizer
metal hardening preparations



	AL-RAFA'A GROUP (PVT) LTD
heavy water	
helium	
holmium	
hormones for hastening the ripening of fruit	
horticultural chemicals, except fungicides, herbicides, insec	cticides and
parasiticides	
humus	
humus top dressing	
hydrates	
hydrazine	
hydrochlorates	
hydrochloric acid	
hydrofluoric acid	
hydrogen	
hydrogen peroxide for industrial purposes	
hypochlorite of soda	
hyposulfites	
industrial chemicals	
iodic acid	
iodine for chemical purposes	
iodine for industrial purposes	
iodised albumen	
iodised salts	
ion exchangers [chemicals]	
iron salts	
isinglass, other than for stationery, household or alimentary	purposes
isotopes for industrial purposes	
kainite	
kaolin / china clay / china slip	
ketones	
kieselgur	
krypton	
lactic acid	
lactose [raw material]	
lactose for industrial purposes	
lactose for the food industry	
lamp black for industrial purposes	
lanthanum	
lead acetate	
lead arsenate	



SUMMARY OF CHEMICALS AL-RAFA'A	GROUP (PVT) LTD
lead oxide	
leather glues	
leather-dressing chemicals	
leather-impregnating chemicals	
leather-renovating chemicals	
leather-waterproofing chemicals	
lecithin [raw material]	
lecithin for industrial purposes	
lecithin for the food industry	
lime acetate	
lime carbonate	
lime chloride	
limestone hardening substances	
liquids for removing sulfates from batteries / liquids for removing su	ılfates from
accumulators	
lithia [lithium oxide]	
lithium	
litmus paper	
Ioam	
magnesite	
magnesium carbonate	
magnesium chloride	
magnetic fluid for industrial purposes	
malt albumen	
manganate	
manganese dioxide	
mangrove bark for industrial purposes	
masonry preservatives, except paints and oils	
mastic for leather	
mastic for tyres / mastic for tires	
meat tenderizers for industrial purposes	
mercuric oxide	
mercury	
mercury salts	
metalloids	
methane	
methyl benzene	
methyl benzol	
methyl ether	
preparations of microorganisms, other than for medical and veterin	ary use



milk ferments for chemical purposes

milk ferments for industrial purposes

milk ferments for the food industry

mineral acids

moderating materials for nuclear reactors

moistening [wetting] preparations for use in bleaching / **wetting** preparations for use in bleaching

moistening [wetting] preparations for use in dyeing / wetting preparations for use in dyeing

moistening [wetting] preparations for use in the textile industry / wetting preparations for use in the textile industry

mordants for metals

mould-release preparations / mold-release preparations

must-fining preparations

nanopowders for industrial purposes

naphthalene

neodymium

neon

neptunium

nitrate paper

nitrates

nitric acid

nitrogen

nitrogenous fertilizers / nitrogenous fertilisers

nitrous oxide

oenological bactericides [chemical preparations for use in wine making]

oil cement [putty]

oil dispersants

oil-bleaching chemicals

oil-purifying chemicals

oil-separating chemicals

oils for currying leather

oils for preparing leather in the course of manufacture

oils for tanning leather

oils for the preservation of food

oleic acid

olivine [silicate mineral]

opacifiers for enamel

opacifiers for glass

organic digestate [fertilizer] / organic digestate [fertiliser]



SUMMARY OF CHEMICALS	AL-RAFA'A GROUP (PVT) LTD
oxalates	
oxalic acid	
oxygen for industrial purposes	
palladium chloride	
paper pulp	
paste fillers for automobile body repair / paste fillers for car	r body repair
peat [fertilizer] / peat [fertiliser]	
peat pots for horticulture	
pectin [photography]	
pectin for industrial purposes	
pectin for the food industry	
perborate of soda	
percarbonates	
perchlorates	
persulfates	
persulfuric acid	
petroleum dispersants	
phenol for industrial purposes	
compositions for the manufacture of phonograph records	
phosphates [fertilizers] / phosphates [fertilisers]	
phosphatides	
phosphoric acid	
phosphorus	
photographic developers	
photographic emulsions	
photographic paper	
photographic sensitizers	
photometric paper	
photosensitive plates	
picric acid	
plant growth regulating preparations	
plasticizers	
plastics, unprocessed	
plastisols	
plutonium	
polish removing substances / substances for removing po	lish
polonium	
polymer resins, unprocessed	
potash	
potash water	



SUIVIIVIARY OF CHEIVIICALS	AL-RAFA'A GROUP (PVI) LID
potassium	
potassium dioxalate	
potato flour for industrial purposes	
potting soil	
power steering fluid	
praseodymium	
preparations for stimulating cooking for industrial purposes	
preservatives for tiles, except paints and oils	
preservatives for use in the pharmaceutical industry	
preparations for preventing the tarnishing of glass	
preparations for preventing the tarnishing of lenses	
substances for preventing runs in stockings	
promethium	
propellant gases for aerosols	
protactinium	
protective gases for welding	
protein [raw material]	
proteins for the food industry	
proteins for use in manufacture	
proteins for use in the manufacture of food supplements	
pyrogallic acid	
quebracho for industrial purposes	
radiator flushing chemicals	
radioactive elements for scientific purposes	
radium for scientific purposes	
radon	
rare earths	
reagent paper, other than for medical or veterinary purpose	S
reducing agents for use in photography	
refrigerants	
renovating preparations for phonograph records	
compositions for repairing inner tubes of tyres / composition	ns for repairing
inner tubes of tires	
compositions for repairing tyres / compositions for repairin	g tires
rhenium	
rock salt	
rubber preservatives	
rubidium	
saccharin	
sal ammoniac	



SUMINARY OF CHEMICALS	AL-RAFA'A GROUP (PVT) LTD
sal ammoniac spirits	
salicylic acid	
salt for preserving, other than for foodstuffs	
salt, raw	
saltpeter / salpetre	
salts [chemical preparations]	
salts [fertilizers] / salts [fertilisers]	
salts for colouring metal / salts for coloring metal	
salts for galvanic cells / salts for galvanic batteries	
salts for industrial purposes	
salts from rare earth metals	
salts of alkaline metals	
salts of precious metals for industrial purposes	
samarium	
sauce for preparing tobacco	
scandium	
seawater for industrial purposes	
seaweeds [fertilizers] / seaweeds [fertilisers]	
sebacic acid	
seed preserving substances	
selenium	
self-toning paper [photography]	
sensitized cloth for photography	
sensitized films, unexposed	
sensitized paper	
sensitized photographic plates	
sensitized plates for offset printing	
separating and unsticking [ungluing] preparations / ungluing	ng preparations /
unsticking and separating	
preparations	
preparations for the separation of greases	
silicates	
silicon	
silicon carbide [raw material]	
silicones	
silver nitrate	
silver salt solutions for silvering	
size for finishing and priming	
size for use in the textile industry	
sizing preparations	
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SUMINARY OF CHEMICALS	AL-RAFA'A GROUP (PVT) LTD
slag [fertilizers] / slag [fertilisers]	
soap [metallic] for industrial purposes	
soda ash	
sodium	
sodium salts [chemical compounds]	
soil conditioning preparations	
soil for growing	
soldering chemicals / welding chemicals	
soldering fluxes	
solidified gases for industrial purposes	
solvents for varnishes	
soot for industrial or agricultural purposes	
sorrel salt	
spinel [oxide mineral]	
spirits of salt	
spirits of vinegar [dilute acetic acid]	
stain-preventing chemicals for use on fabrics	
starch for industrial purposes	
starch paste [adhesive], other than for stationery or housel	
starch-liquifying chemicals [ungluing agents] / ungluing a	agents [chemical
preparations for liquifying starch]	
stearic acid	
stem cells, other than for medical or veterinary purposes	
strontium	
substrates for soil-free growing [agriculture]	
sulfates	
sulfides	
sulfonic acids	
sulfur	
sulfuric acid	
sulfuric ether	
sulfurous acid	
sumac for use in tanning	
superphosphates [fertilizers] / superphosphates [fertilise	rs]
synthetic materials for absorbing oil	
synthetic resins, unprocessed / artificial resins, unprocess	sed
talc [magnesium silicate]	
tan	
tan-wood	
tannic acid	



SUMMARY OF CHEMICALS	AL-RAFA'A GROUP (PVT) LTD
tannin	
tanning substances	
tapioca flour for industrial purposes	
tartar, other than for pharmaceutical purposes	
tartaric acid	
tea extracts for the food industry	
tea extracts for use in the manufacture of cosmetics	
tea extracts for use in the manufacture of pharmaceuticals	
technetium	
compositions for the manufacture of technical ceramics	
tellurium	
metal tempering preparations	
tensio-active agents / surface-active chemical agents	
terbium	
test paper, chemical	
tetrachlorides	
textile-brightening chemicals	
textile-impregnating chemicals	
textile-waterproofing chemicals	
thallium	
thiocarbanilide	
thorium	
compositions for threading	
thulium	
thymol for industrial purposes	
titanite	
titanium dioxide for industrial purposes	
toluol / toluene	
toning baths [photography]	
toning salts [photography]	
topsoil	
toxic gas neutralizers	
preparations of trace elements for plants	
transmission fluid	
transmission oil	
tree cavity fillers [forestry]	
tungstic acid	
uranium	
uranium nitrate	
uranium oxide	



vinic alcohol
viscose
vitamins for the food industry
vitamins for use in the manufacture of cosmetics
vitamins for use in the manufacture of food supplements
vitamins for use in the manufacture of pharmaceuticals
vulcanization accelerators
vulcanizing preparations
wallpaper removing preparations
water glass [soluble glass]
water-purifying chemicals
water-softening preparations
wax-bleaching chemicals
wine finings
witherite
wood alcohol
wood pulp
wood vinegar [pyroligneous acid] / pyroligneous acid [wood vinegar]
X-ray films, sensitized but not exposed
xenon
xylene
xylol
ytterbium
yttrium
zirconia