



VIRA GROUP

**Leading in
Oil, Gas &
Petrochemical Export**

RELIABLE PETROCHEMICAL SUPPLY

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ALCOHOL



METHANOL

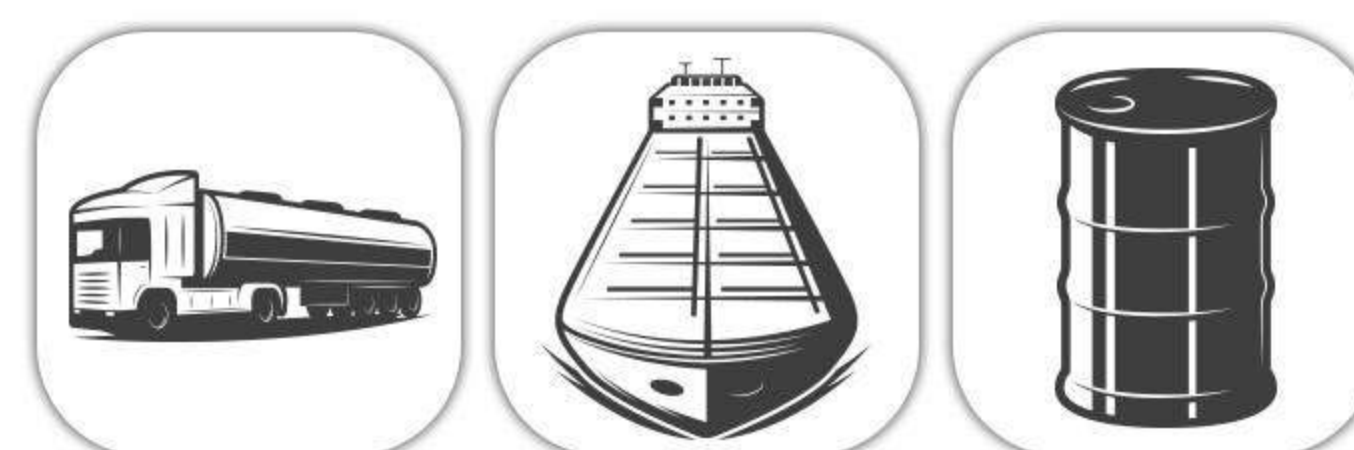
Chemical Formula: CH_3OH

Physical Characteristics: liquid-Clear and free of suspended matter

Grade	Purity(wt%)	SP.GR@20/20
Methanol 98%	Min 98 - Max 99.85	Max 0.795

Packing:

- Bulk
- Drum(220 Litr)



Application:

- MDF and plywood industry
- Melamine resin production
- MTO
- Acetic acid
- MTBE & TAME &PMAA
- Fuel Applications
- Biodiesel
- Formaldehyde
- Methyl Methacrylate
- Producing ethylene and propylene





ETHANOL

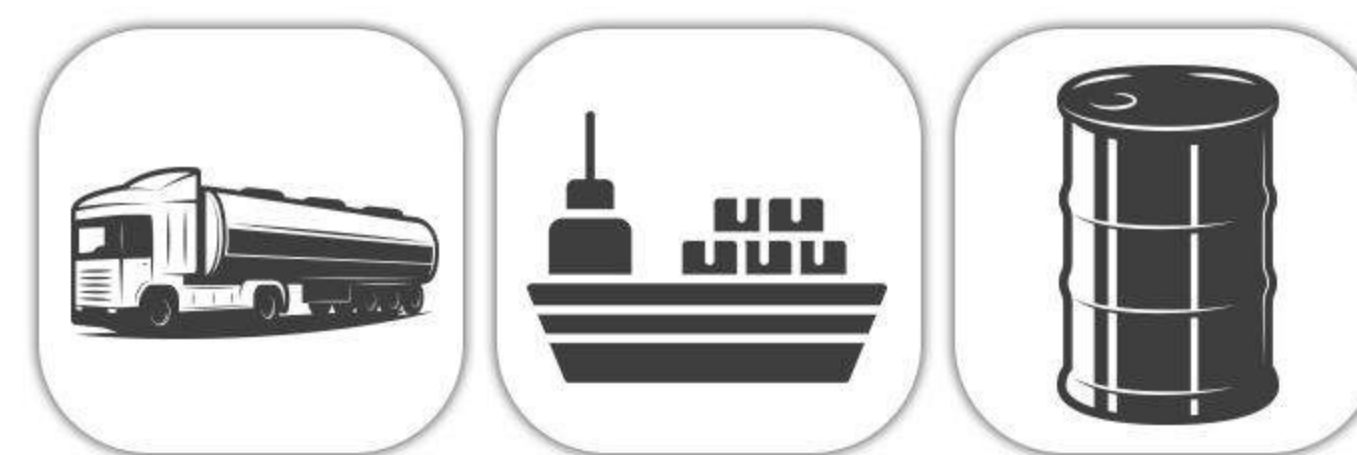
Chemical Formula: C_2H_5OH

Physical Characteristics: liquid- Colorless and Clear

Grade	Purity	Density in air.@20°C
Industrial 92%	92.3% v/v	0.8213 g/ml
Industrial 70%	70% v/v	0.8855 g/ml
Medical 96%	96.1 % v/v	0.8062 g/ml

Packing:

- Bulk
- Drum(220 Litr)



Application:

- Printing ink production
- Production of ethyl acetate
- Ethyl glycol production
- Production of acetic acid





MEA(Mono Ethanol Amine)

Chemical Formula: C2H7NO

Physical Characteristics: liquid

Grade	Purity (WT.%)	SP.GR(20/20°C)
MEA	99 MIN.	10 MAX.

Packing:

- Bulk
- Drum(Plastic Drum,220 kg)



Application:

- Agrochemicals
 - Treatment of gases
 - Detergents
 - Lubricant oils
 - Hygiene and personal care
- Flotation of minerals
 - Pharmaceutical products
 - Dispersing agents for glues,...





DEA(De Ethanol Amine)

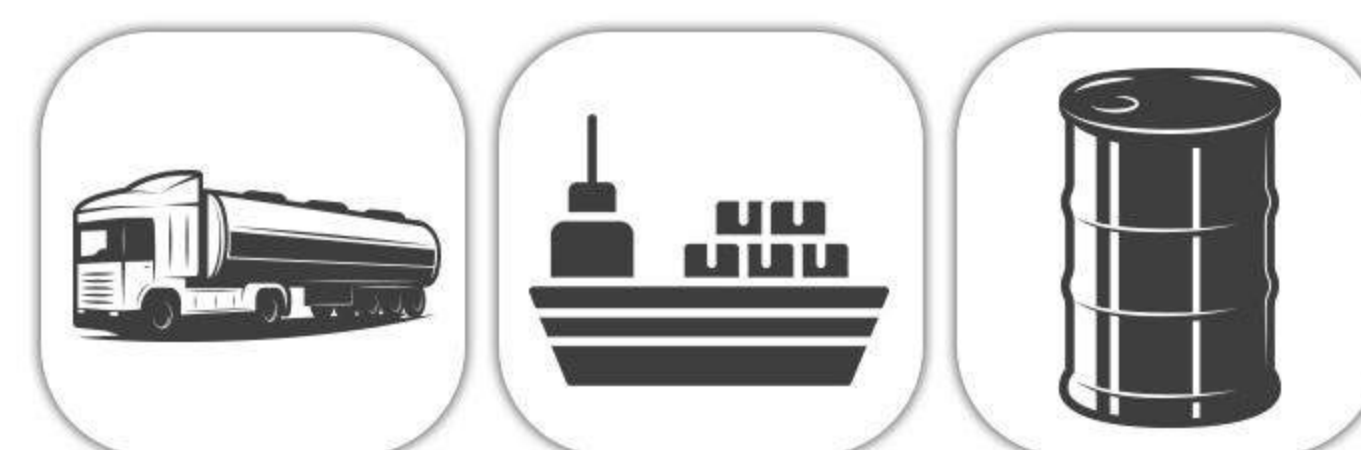
Chemical Formula: $C_4H_{11}NO_2$

Physical Characteristics: liquid

Grade	Purity (WT.%)	SP.GR(20/20°C)
DEA	98.5 Min	1.09 - 1.094

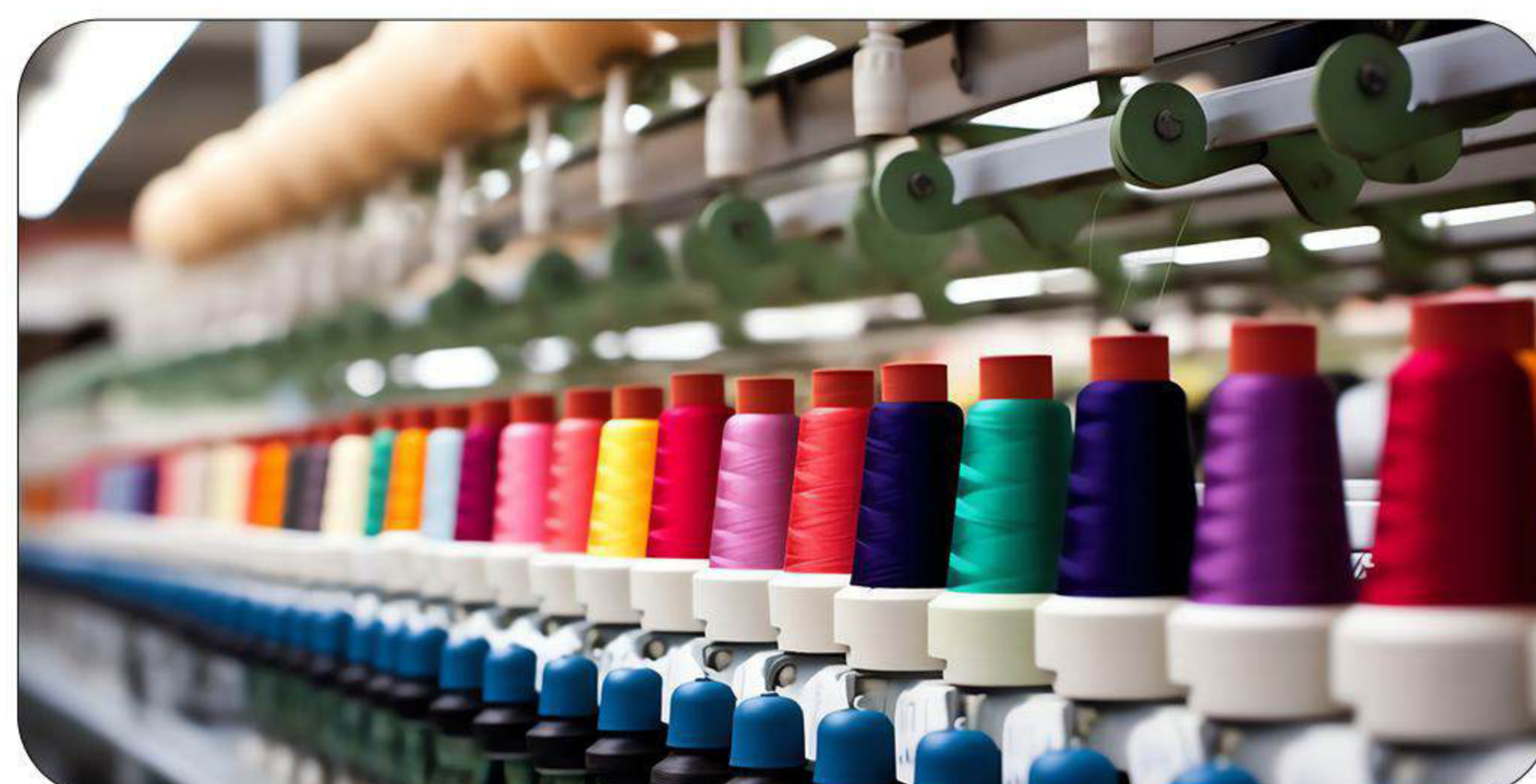
Packing:

- Bulk
- Drum(Metal Drum 220kg)



Application:

- Detergents
- Cosmetics
- Shampoos and hair conditioners
- Of lubricants in the textile industry
- Industrial gas purification
- Preparations of agricultural chemicals
- Metalworking
- Solvents





TEA(Tri Ethanol Amine)

Chemical Formula: $C_6H_{15}NO_3$

Physical Characteristics: liquid

Grade	Purity (WT.%)	SP.GR(20/20°C)
TEA 85%	85 MIN.	1.122-1.130
TEA 99%	99 MIN	1.122-1.127

Packing:

- Bulk
- Drum(Plastic Drum,220 kg)



Application:

- Material
- Polyurethanes
- Anti corrosion ferrous
- Cement industries
- Textile industries
- Acid gas removal





BENZENE

Chemical Formula: C_6H_6

Physical Characteristics: liquid- Clear, free of haze/sediment

Grade	Purity	Density in air.@20°C
Benzene	Min 99.90	0.882 -0.886 gr/cm3

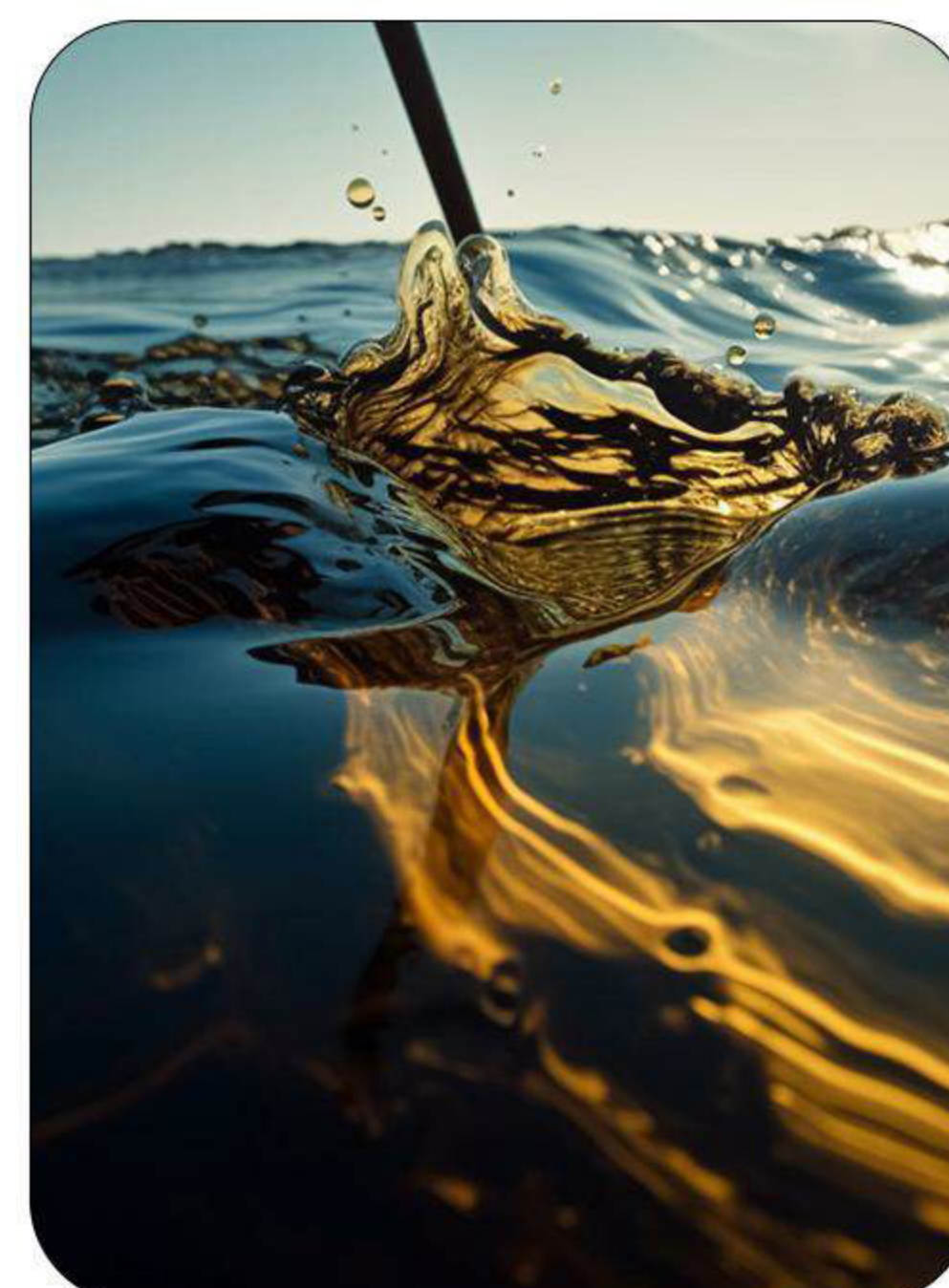
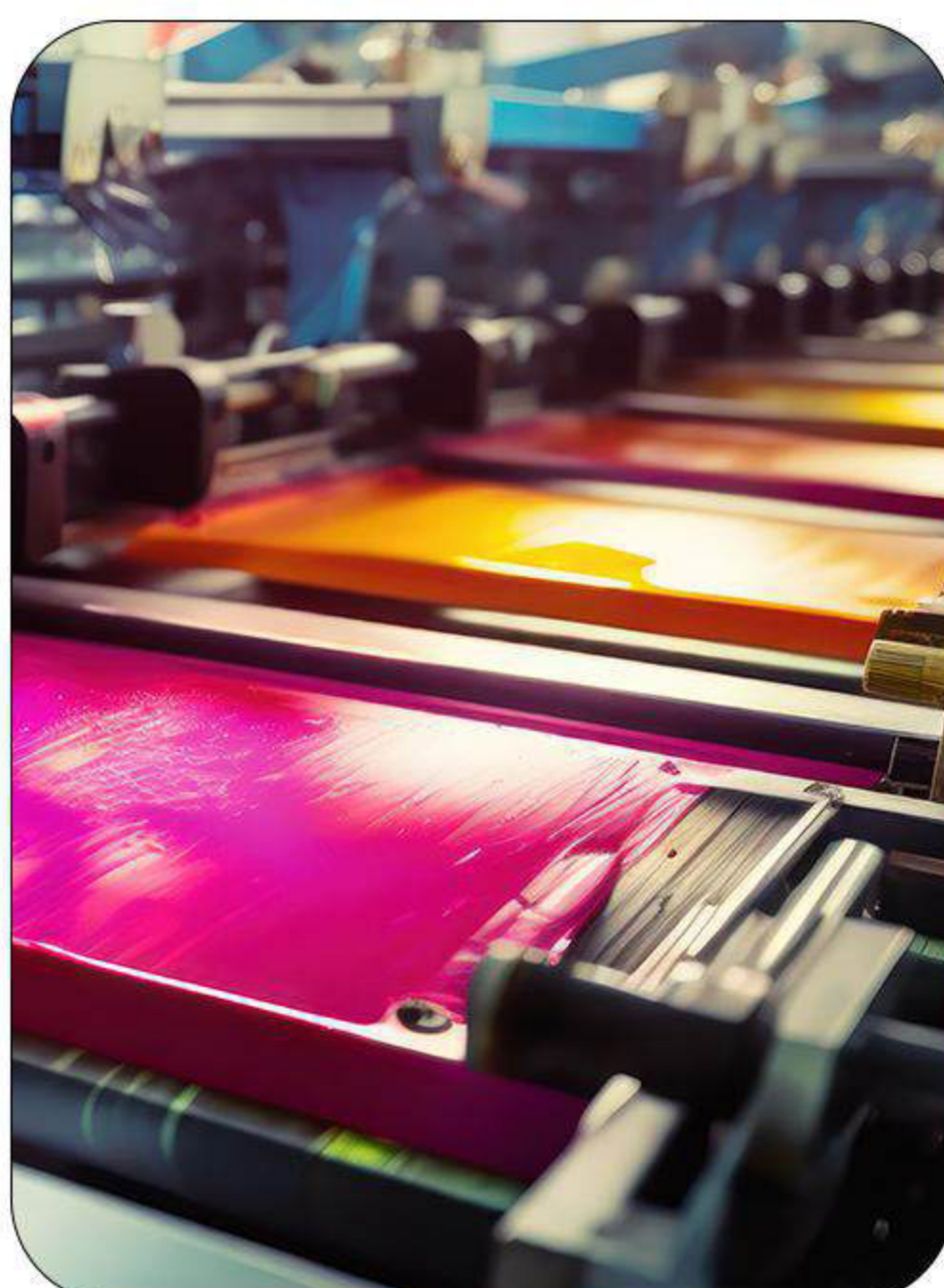
Packing:

- Bulk
- Drum



APPLICATION:

- Fuel • Solvent • Waxes • Resins • Oils • Inks • Paints • Plastics • Rubber
- Explosives • Pharmaceuticals • Dyestuffs • Lubricant • Chemical industry





MIXEDXYLENE

Chemical Formula: $C_6H_4(CH_3)_2$

Physical Characteristics: liquid - Clear liquid free of sedimentation

Grade	Specific Gravity at 15.56/15.56°C
MIXEDXYLENE	0.865 - 0.877 gr/cm3

Packing:

- Bulk
- Drum



Application:

- Solvent for paint
- Pesticide
- Raw material of orthoxylene (Phthalic Anhydride)
- Raw material of metaxylene (isophthalic acid)
- Raw material of paraxylene (terephthalic acid)
- Raw material of ethylbenzene (styrene monomer)





PARAXYLEN

Chemical Formula: C8H10

Physical Characteristics: liquid - Clear liquid free of sedimentation

Grade	Specific Gravity at 15.56/15.56°C	Paraxylene contain(wt%)	Ortho xylene contain(wt%)	Metha xylene contain(wt%)
PARAXYLEN	0.865-0.877GR/cm3	16min	16min	49 max

Packing:

- Bulk
- Drum



Application:

- Production of dimethyl terephthalate DMT
- Production of terephthalic acid PTA
- Vitamins
- Medicinal compounds
- Pesticides





ORTHOXYLEN

Chemical Formula: $C_6H_4(CH_3)_2$

Physical Characteristics: liquid- Colorless liquid

Grade	Purity(WT%)	Specific Gravity at15.56/15.56°C
ORTHOXYEN	98 Min	0.88 - 0.89

Packing:

- Bulk
- Drum



Application:

- . Production of phthalic anhydride PA
- . Production of dioctyl phthalate DOP
- . Colors.....





MDI (Methylene Diphenyl Di IsocyanatEe)

Chemical Formula: C15H10N2O2

Physical Characteristics: liquid- Dark Brown Liquid

Grade	Viscosity at 25(°C)	Specific Gravity at 25(°C)
MDI	150 -300	12-125

Packing:

- Bulk
- Drum(Steel Drum,220 liter)



Application:

- Flexible foams
- Foamed-in-place
- Polyurethane coatings
- Elastomers
- Rigid foams
- Urethane sealants
- Production of roller blade wheels,....





TDI (Toluen Di Isocyanate)

Chemical Formula: $C_9H_6N_2O_2$

Physical Characteristics: liquid-Colorless liquid

Grade	Purity	Sp.gr @ 25°C
TDI	Min. 99.5	1.22 ± 0.

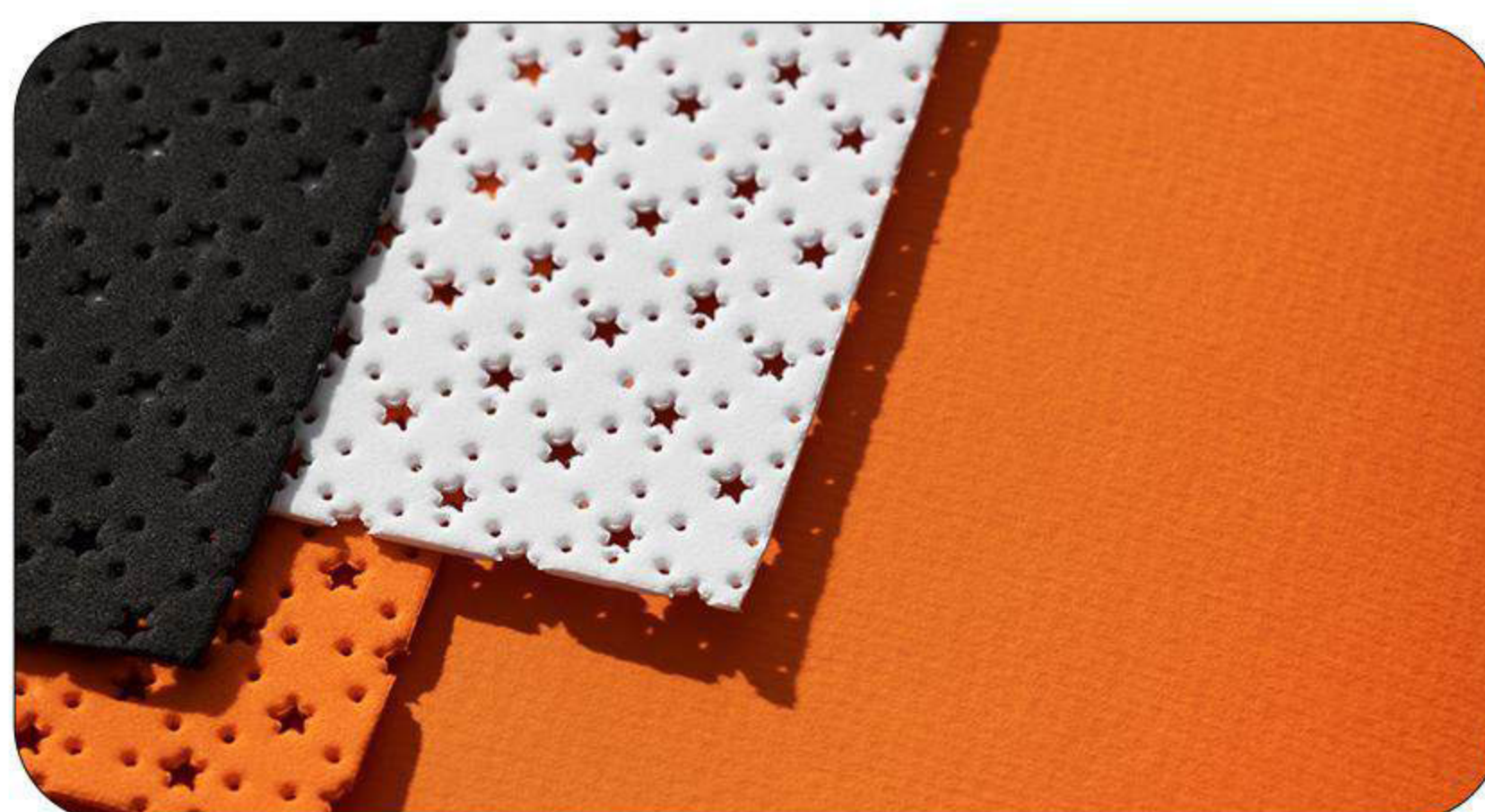
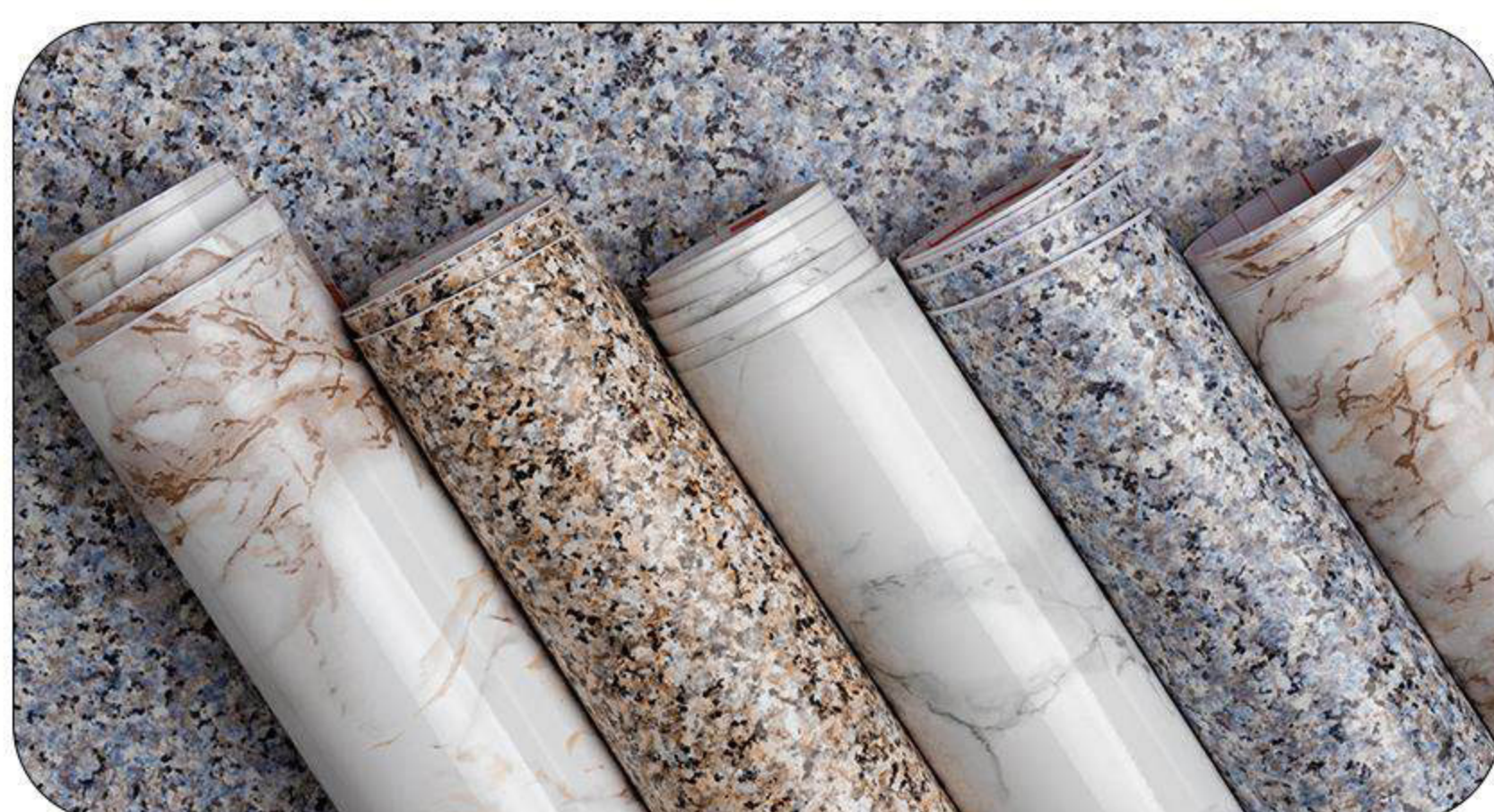
Packing:

- Bulk
- Drum (Steel Drum, 220 liter)



Application:

- Flexible foams
- Foamed-in-place polyurethane plastics
- Polyurethane coatings
- Elastomers
- Rigid pour-in-place foams
- Urethane sealants
- Cast elastomers





CALCIUM HYPOCHLORITE

Chemical Formula: $\text{CA}(\text{CLO})_2$

Physical Characteristics: Solid-White granules

Grade	Active chlorine	Solubility as Active Chlorine(%w/w)
CALCIUM HYPOCHLORITE 65-70% (Industrial & water disinfection)	Min 65%	Min 49
CALCIUM HYPOCHLORITE 60% (Industrial & water disinfection)	Min 57%	Min 50

Packing:

- Containers(25 kg, 45 kg)

APPLICATION:

- An antibacterial in drinking water
- Disinfectant in swimming pools
- Whitening agent in cloths & pulps,....





SODIUM HYPOCHLORITE

Chemical Formula: $\text{CA}(\text{CLO})_2$

Physical Characteristics: Solid- White granules

Grade	Active chlorine	Alkalinty as NaOH
Sodium hypochlorite (industrial &WATER DISINFECTION)	14	1
Sodium hypochlorite	12-18	Min 0.9
Sodium hypochlorite WATER DISINFECTION	15-16	Max 1.2
Sodium hypochlorite (Industrial)	15-16	Min 0.5

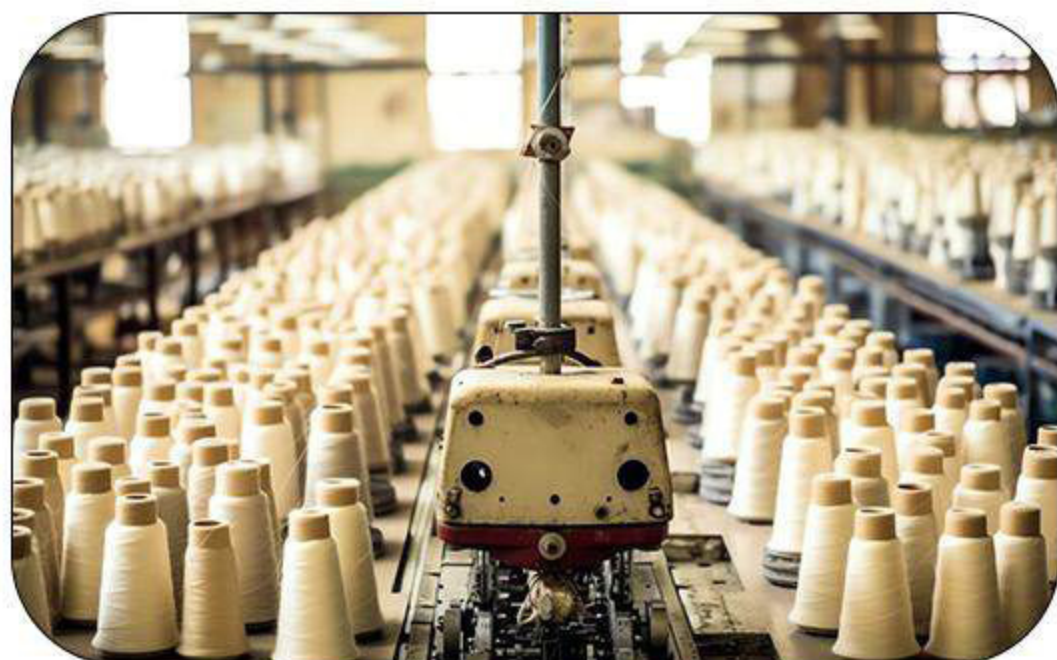
Packing:

- Bulk
- IBC
- Drum(Plastic Drum 220 Litr)



Application:

- Drinking water disinfection
- Wastewater treatment
- Paper pulp
- Textile industries
- Household hygienic disinfection
- Extraction of gold from its ore





CAUSTIC SODA FLAKE

Chemical Formula: NaOH

Physical Characteristics: Solid -white Flakes

Grade	Purity of Sodium Hydroxide-NaOH	Chloride as Nacl-%w/w
CASTIC SODA FLAKE	98.5±0.5	≤ 0.02

Packing:

- 25 kg bags
- Jumbo bags (1MT)



APPLICATION:

- Petroleum Industry (Petroleum products refining)
- Chemical Industry (dyes, water treatment)
- Pulp and Paper Industries (wood treatment)
- Textile Industry
- Metallurgy Industry (Alumina)
- Soap and Detergent Industry





CAUSTIC SODA LIQUID

Chemical Formula: NaOH

Physical Characteristics: Liquid - Colorless, clear, sediment - free

Grade	NaOH	Nacl
CAUSTIC SODA LIQUID	48 - 50 %	Max 0.015

Packing:

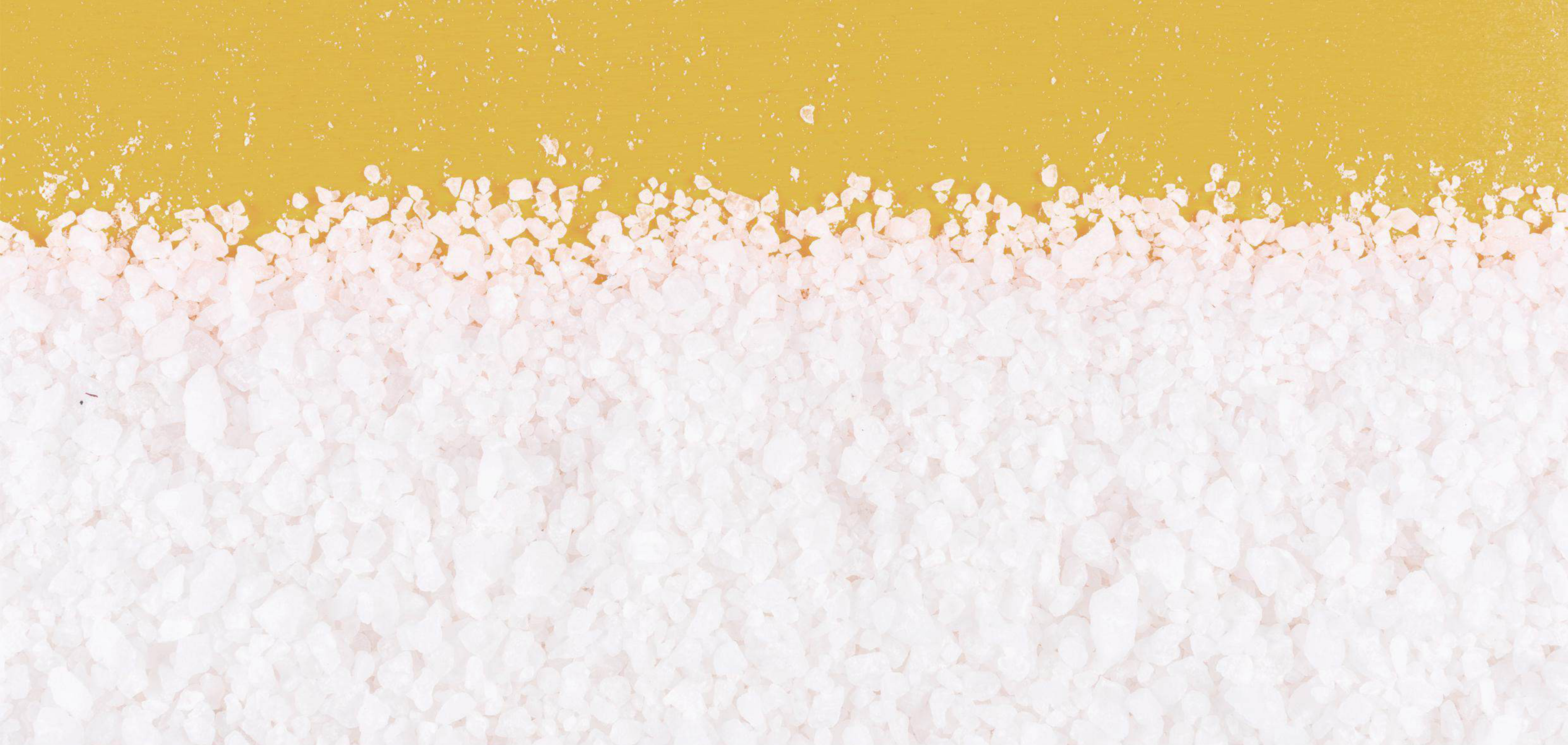
- Bulk
- IBC



Application:

- Acid neutralizer
- Alkaline cleaners
- Biofuels
- Drain cleaner
- Food processing
- Metal cleaners
- Oil well drilling fluids
- Ore flotation
- Petroleum refining
- Pharmaceuticals
- PH control





CALCIUM CHLORIDE

Chemical Formula: CaCl₂

Physical Characteristics: Solid - White Granulated

Grade	Purity	Total Alkalinity(as NaCl)_%w/w
Calcium Chloride	Min 96	Max 4

Packing:

- 25 kg Bags
- Jumbo Bag(1 MT)



Application:

- In drilling oil wells drills and petrochemical industries
- In making pigments and metal soaps
- It is used in coolants and de-moisture industries
- It is used in producing glycerol
- In concrete industries
- Water Treatment



DETERGENTS 4



SLES

Chemical Formula: $\text{CH}_3-(\text{CH}_2)_n-(\text{OCH}_2)_m-\text{OSO}_3\text{-Na}$ $n = 11 - 13$, $m = 2$

Physical Characteristics: Liquid - Light yellow paste

Grade	Active Matter	Sodium sulfate
SLES 70%	70 ± 1	Max 1
	68 - 72	Max 1.5

Packing:

- Drum(210 kg PE drum)



Application:

- Gas and Oil Recovery
- Gas Well Dewatering
- Drilling Additives
- Degreasing Agen
- Printing and Dyeing
- Leather Industries
- Shampoos
- Facial Cleansers
- Degreasing Agent
- Gypsum Additives
- Textile Wet Processing





LABSA(Linear Alkylbenzene Sulfonic Acid)

Chemical Formula: $R-C_6H_5-OSO_3H$ ($R = C_{10} - C_{13}$)

Physical Characteristics: Liquid - Dark brown liquid

Grade	Active Matter	Sulfuric Acid
Labsa 97%	MIN 96%	Max 1.8%

Packing:

- Drum(220 kg PE drum)



Application:

- Car/truck wash
- Emulsion breaker for oil fields
- Dishwashing liquids
- Hard surface care
- Heavy duty cleaning
- Latex manufacture
- Textile scouring,...
- Oil dispersants





DI ETHYLENE GLYCOL (DEG)

Chemical Formula: $C_4H_{10}O_3$

Physical Characteristics: Liquid - Colourless, transparent

Grade	Purity	Specific Gravity.20/20°C
DEG	99.8 wt% Min	1.1175-1.1195

Packing:

- Bulk
- Drum(220 kg PE drum)
- IBC



Applications:

- Rubber
- Tire rubber solvent oil
- Solvent oil used in paints
- Paint thinner
- Cleaning and degreasing machine tools
- Ingredient fuel/oil additive

- Plastic shoes
- Washing solvents
- Coatings paint





MONO ETHYLENE GLYCOL (MEG)

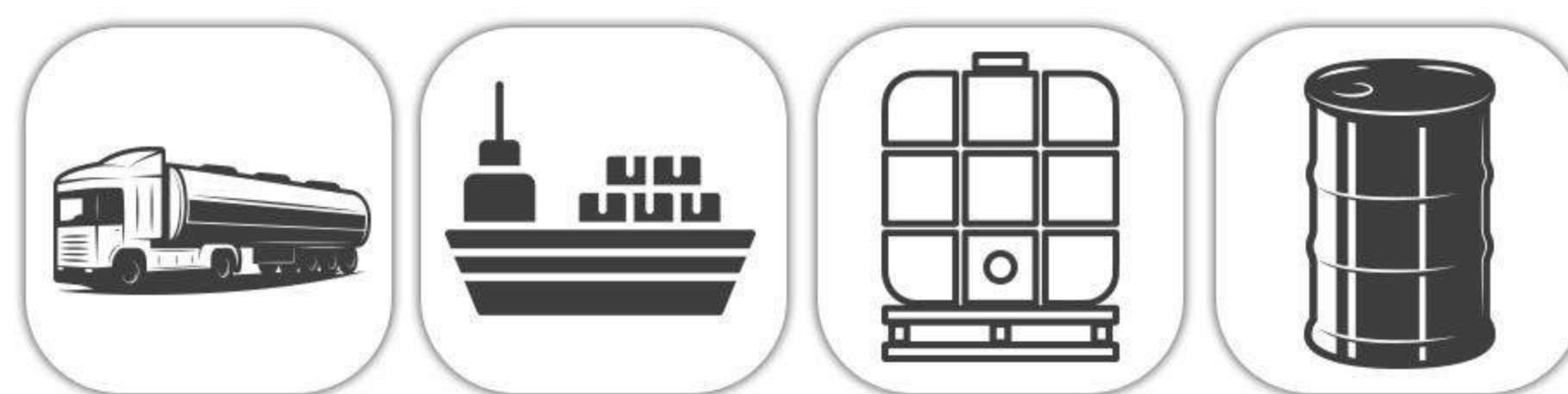
Chemical Formula: $C_2H_6O_2$

Physical Characteristics: Liquid - Colourless, transparent

Grade	Purity	Specific Gravity.20/20°C
MEG	99.8 wt% min	1.1151-1.1156

Packing:

- Bulk
- Drum(220 kg PE drum)
- IBC



Application:

- Polyester
- Resins
- Cellophane
- Printing ink
- Leather
- Cosmetics
- Coolant additives
- Glues
- And adhesives
- Textiles
- Paper
- Pharmaceutical products





TRI ETHYLENE GLYCOL (TEG)

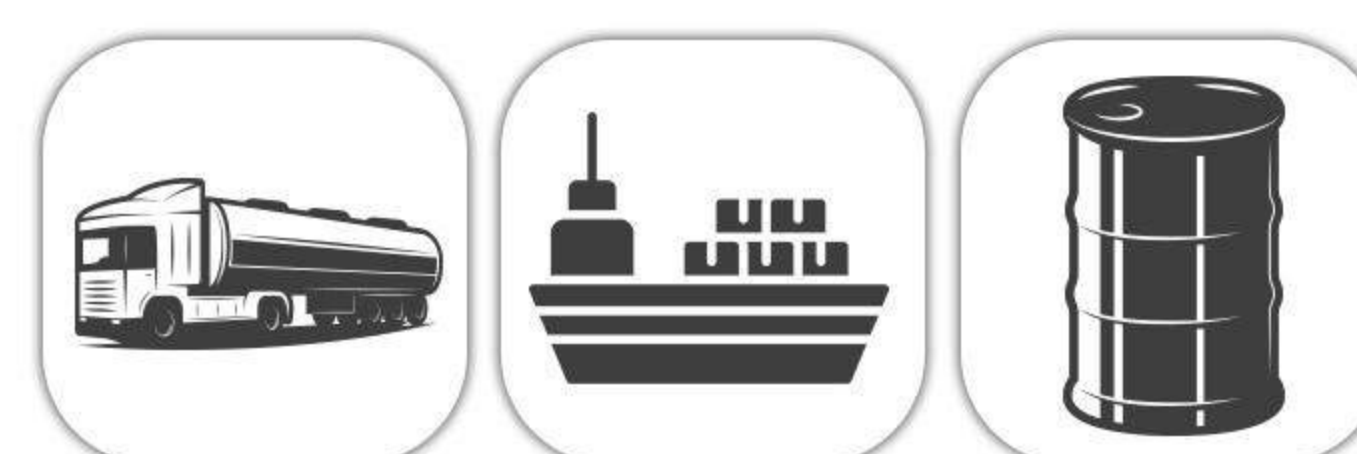
Chemical Formula: $C_6H_{14}O_4$

Physical Characteristics: Liquid - Colourless, transparent

Grade	Purity (wt %)	Specific gravity (20/20°C)
TEG	97 - 99.82 %	1.124-1.126

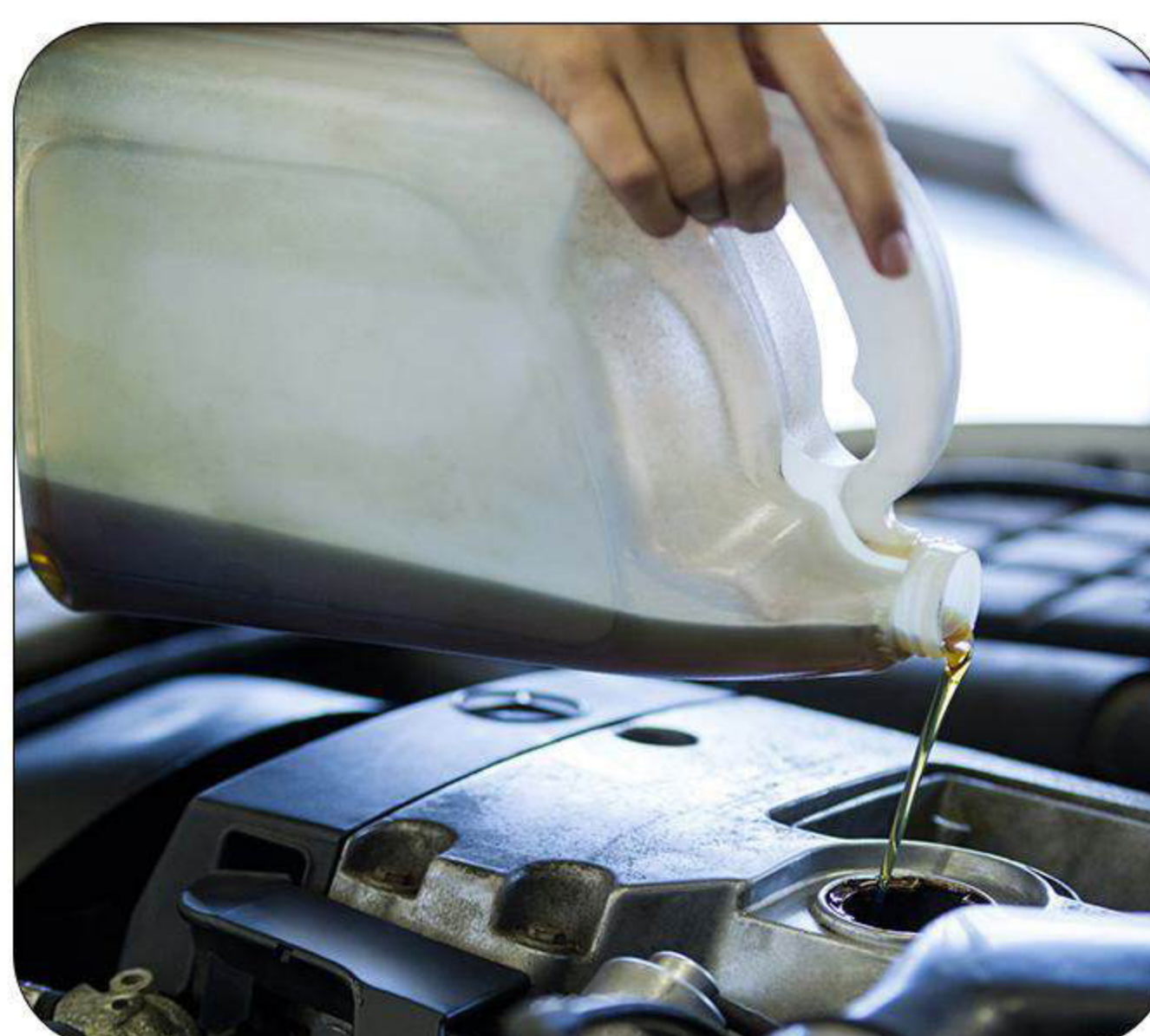
Packing:

- Bulk
- Drum(220 kg Steel drum)



Application:

- Alkyd resins
- Fatty acids (oleic, stearic, lauric, etc.)
- Emulsifiers and plasticizers of polymers
- Solvent in brake fluid formulations
- Fire-resistant hydraulic fluids
- Surface polishers
- Printing ink
- Treatment of gas
- Cutting oils
- Agrochemicals
- The extraction of solvents....





POLYETHYLENE GLYCOL(PEG 400.4000....)

PEG 400

Chemical Formula: $C_{2n}H_{4n+2}O_{n+1}$, n = 8.2 to 9.1

Physical Characteristics: Liquid – Colourless

PEG 4000

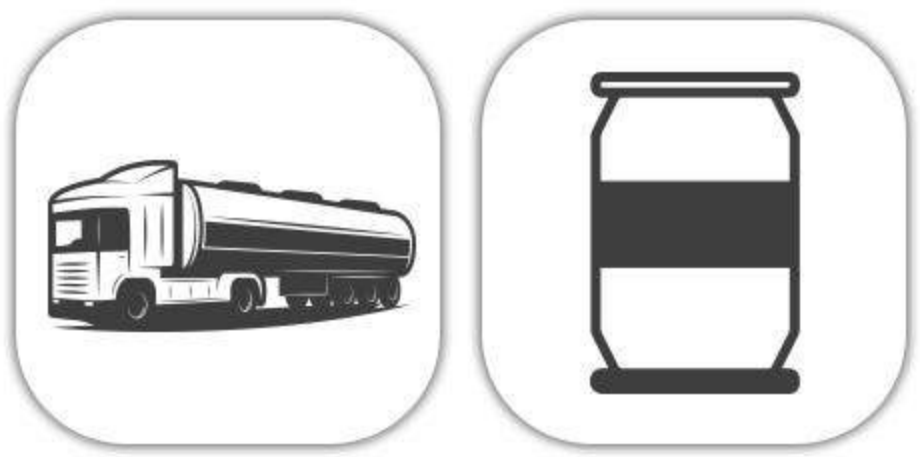
Chemical Formula: $H(OCH_2CH_2)_nOH$

Physical Characteristics: Liquid – Colourless

Grade	Viscosity at 98.9C,cst	PH,5% Solution in water
PEG 400 Industrial	6.8-8.0	4.5 - 7.5
PEG 400 Pharmaceutical	6.8-8.0	4.5 - 7.5
PEG 4000 Industrial	110 -158	4.5 - 7.5
PEG 4000 Pharmaceutical	110 -158	4.5 - 7.5

Packing:

- Drum(220 kg PE drum)



Application:

- As solvent
- Lubricant
- Gelatine capsule
- Liquid oral medications
- Insecticides
- Printing and inks
- Water soluble
- Ointment
- Paints & Coating
- Agriculture
- Paper
- Tablet coating





PROPYLENE GLYCOL (Mpg pharmaceutical, Mpg industrial)

Chemical Formula: $C_3H_8O_2$

Physical Characteristics: Liquid – odorless and colorless clear oily liquid

Grade	SP. GR.(25C)	Purity(on dry basis)(wt.%)
MPG INDUSTRIAL	1.035-1.037	MIN 99
MPG PHARMACEUTICAL	1.035-1.037	MIN 99.5

Packing:

- Drum(220 kg PE drum)



Application:

- Cosmetics
 - Personal care products
 - Coupling agent
 - Oral care (mouth washers, toothpastes)
 - Skin care (creams, lotions and oils)
 - Deodorants and anti-perspirants (roll & stick)
 - Shaving (creams, foams, gels, after shaves)
 - Bath and shower soaps
- Gels and moisturizers
 - Solvent
 - Bakery goods
 - Pet food
 - Food flavorings
 - Cleaners and disinfectants
 - Body care (wipers, antiseptics)





ETHYL ACETATE(99%)

Chemical Formula: $C_4H_8O_2$

Physical Characteristics: Liquid–Clear & Bright

Grade	Purity(wt.%)	Density@20(gr/cm ³)°C
ETHY ACETATE(99%)	Min 99.5	0.897-0.903

Packing:

- Bulk
- Drum(Steel Drum 180 kg, PE Drum 160 kg)



Application:

- Cleaning agents
- Chemicals
- Nitrocellulose
- Cellulose acetate
- Greases
- Resins
- Perfumes
- Synthetic leathers





METHYL ACETATE(85%-99%)

Chemical Formula: $C_3H_6O_2$
Physical Characteristics: Liquid–Clear & Bright

Grade	Purity(wt.%)	Density@20(gr/cm3)°C
METHYL ACETATE(85%)	Min 85	0.900 - 0.920
METHYL ACETATE(99%)	Min 99	0.905 - 0.935

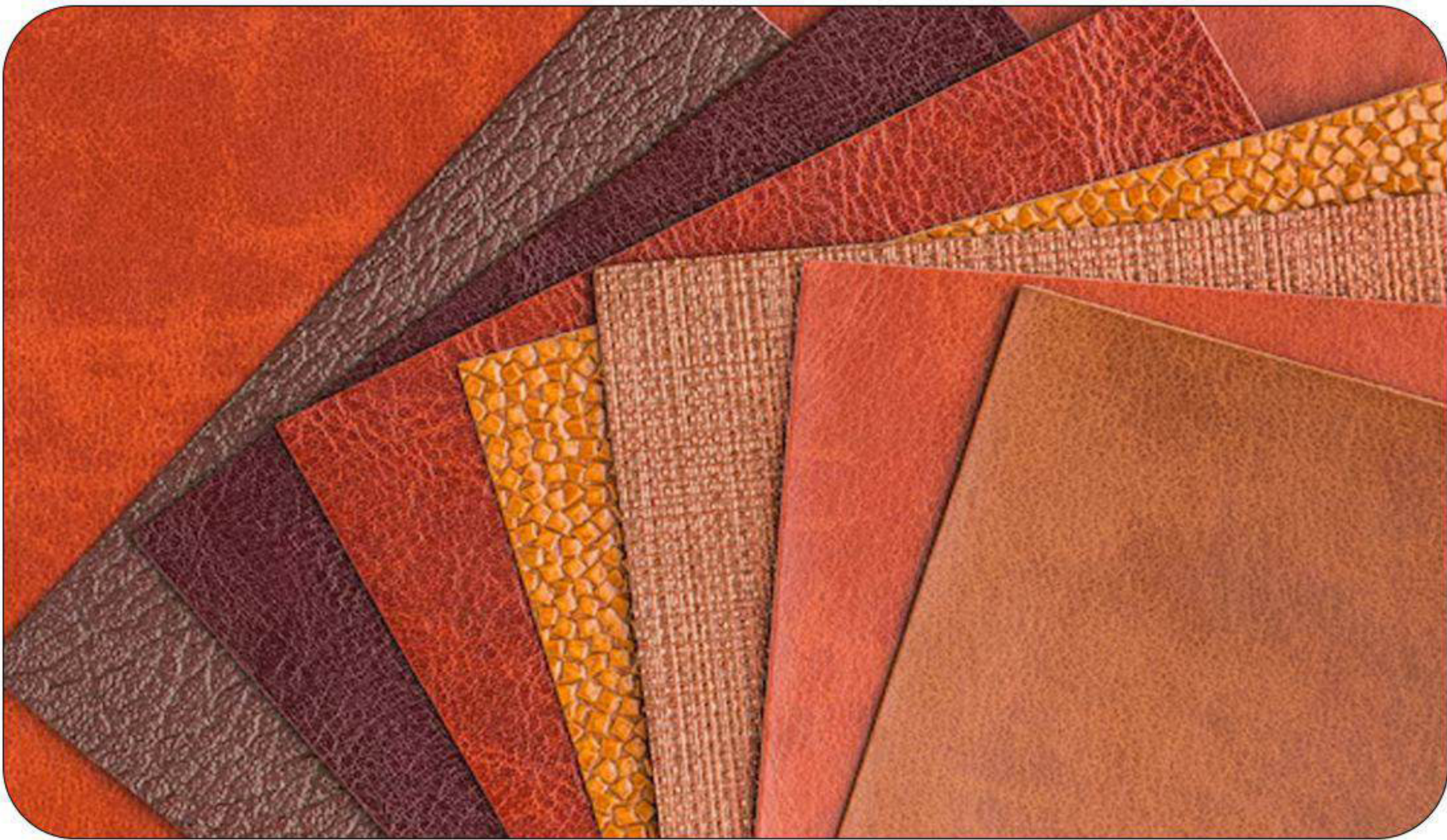
Packing:

- Bulk
- Drum(Steel Drum 180 kg, PE Drum 160 kg)



Application:

- Cleaning agents
- Metal working fluids or binders
- Nitrocellulose
- Synthetic leathers
- Chemicals
- Resins
- Cellulose acetate
- Perfumes





VAM

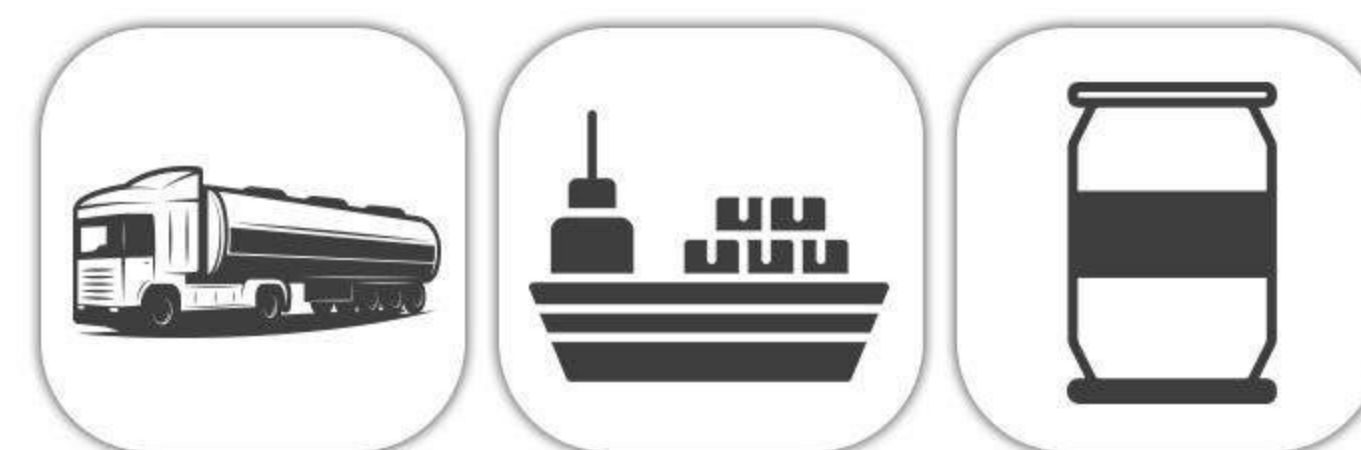
Chemical Formula: $C_4H_6O_2$

Physical Characteristics: Liquid– colourless

Grade	PURITY(WT.%)	Density@20°C
VAM	99.9 MIN	0.932-0.933

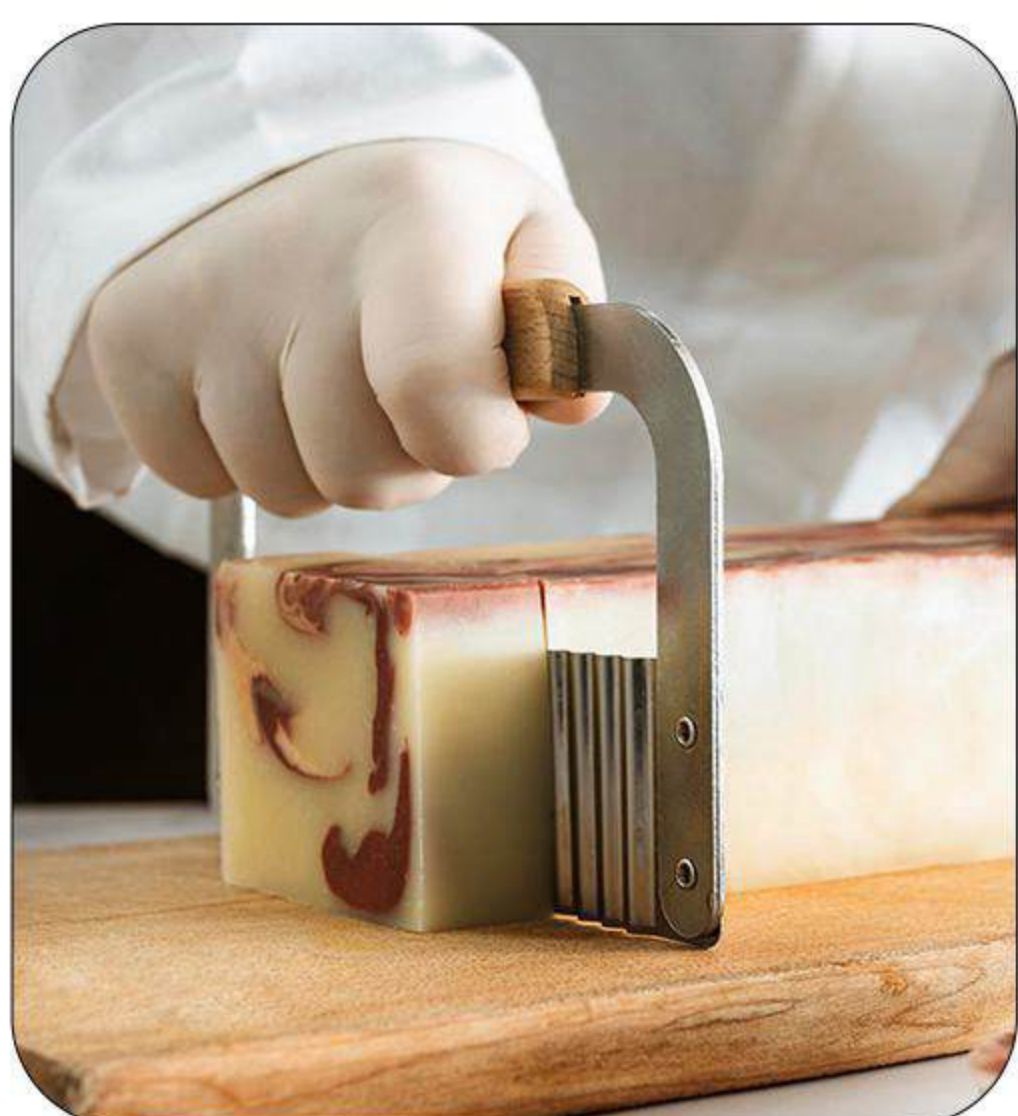
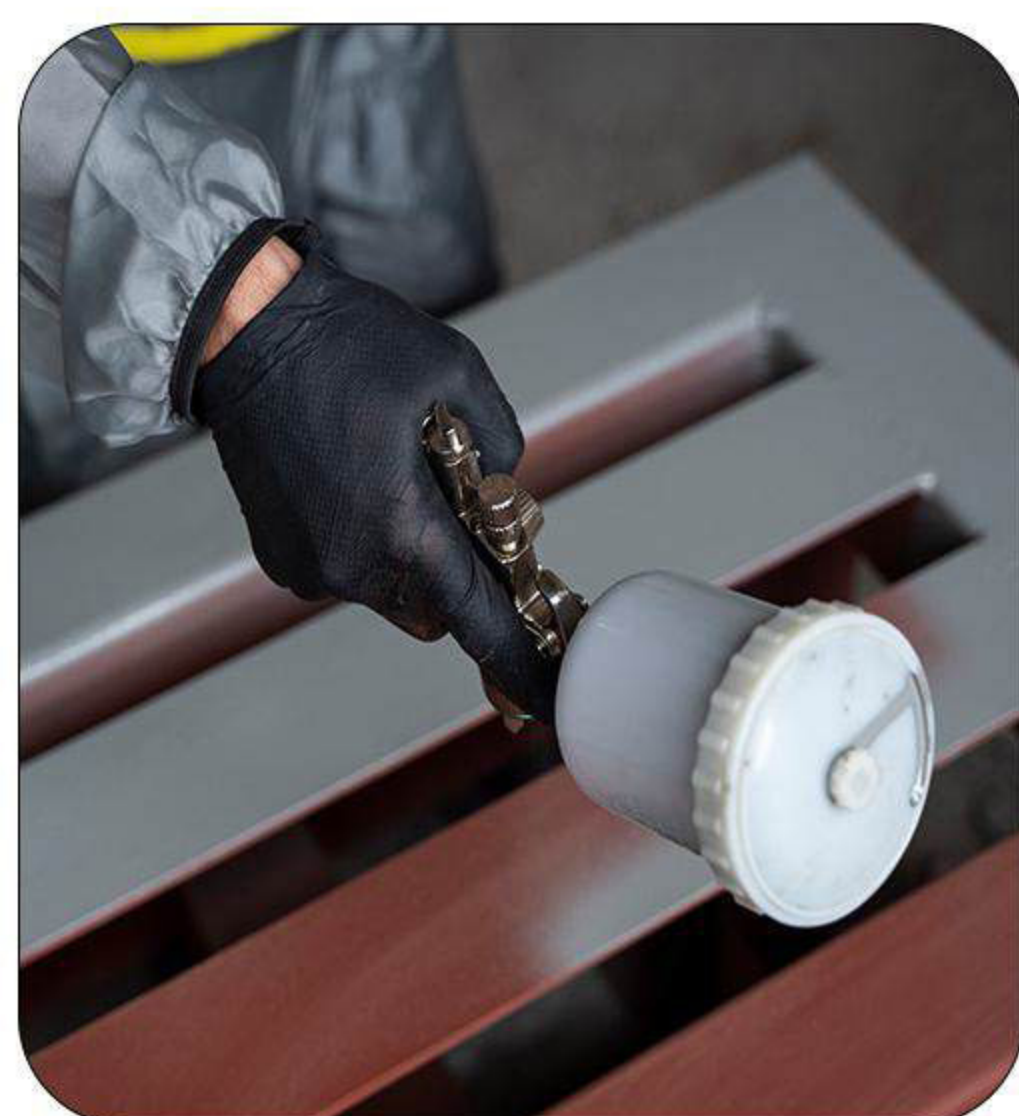
Packing:

- Bulk
- Drum(PE Drum 200 kg)



Application:

- Copolymerization and terpolymerization
- Paints
- Coatings and water-soluble packaging films
- Insulation for magnetic wire
- Safety glass
- Flexible films
- Moldings
- Adhesives
- Coextruded packaging
- Wash primers and coatings
- Insulation



7

ACID

**ACETIC ACIDS**Chemical Formula: CH_3COOH

Physical Characteristics: Liquid– Clear

Grade	Purity (WT%)	Density@20°C Kg/lit
ACETIC ACID	Greater than 99.85	1.048-1.051

Packing:

- Bulk
- Drum
- IBC

***This product is shipped under the special conditions*****Application:**

- Vinegar
- Dyestuffs
- Perfumes
- Synthetic fibers
- Textiles
- Pesticides
- Wood glue
- Photographic films, etc.
- Food additive
- Ethyl acetate
- Dyes
- Soft drink bottles
- Inks
- Plastics
- Rubbers
- Solvent
- Acetic acid
- Acetic anhydride
- Purified terephthalic acid
- Butyl acetate





CITRIC ACIDS

Chemical Formula: CH_3COOH
Physical Characteristics: Liquid– Clear

Grade	content	MOISTURE
CITRIC ACID ANHYDROUS	99.5-100.5%	0.5%
CITRIC ACID MONOHYDRATE	99.5-100.5%	7.5-8.8%

Packing:
- 25 kg Bags

- Application:**
- Food
 - Medicine
 - Chemical
 - Leather
 - Cosmetics





SULFURIC ACIDS

Chemical Formula: H_2SO_4

Physical Characteristics: Liquid- Colorless

Grade	Purity(wt.%)	Density(g/ml)
SULFURIC ACID 98%	Min 98	Min 1.83

Packing:

- Bulk
- IBC



Application:

- Fertilizers
- Pharmaceuticals
- Sugar bleaching
- Water treatment
- Sulfonation agents
- Coloring agents
- Resins
- Paper bleaching
- Gasoline
- Automobile batteries
- Cellulose fibers
- Steel manufacturing
- Amino acid intermediates





HYDROCHLORIC ACID(HCL)

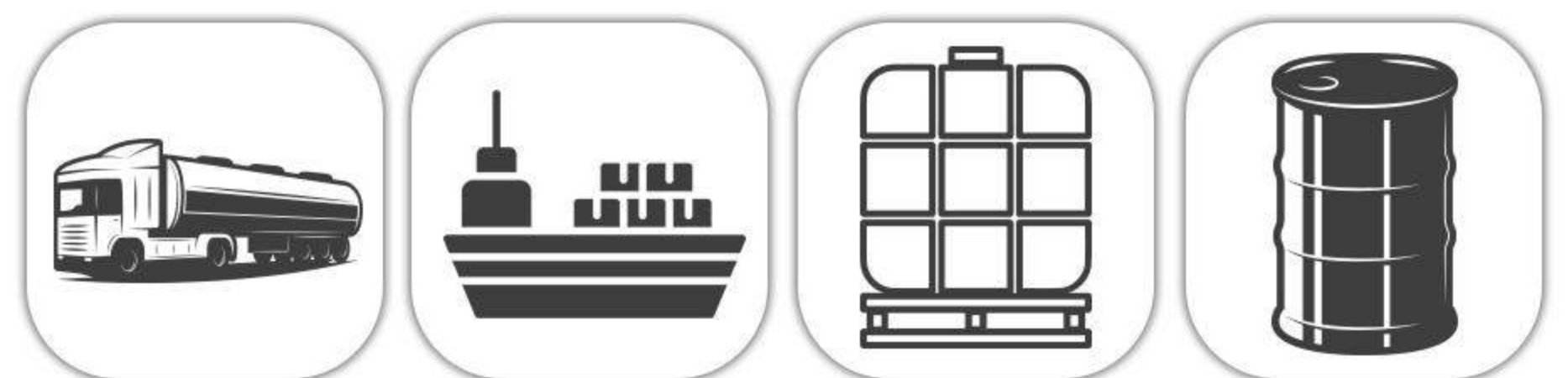
Chemical Formula: HCL

Physical Characteristics: Liquid - Clear

Grade	Purity	Density at20°C
HCL	29-33	Min1.15

Packing:

- Bulk
- IBC
- Drum(220 Litr)



Application:

- Acidizing of petroleum wells
- Demineralizers and resin regeneration
- Dye manufacturing
- Cleaning products
- Ore reduction
- Gelatin
- Pickling
- Metal surface cleaning
- Synthetic Rubber
- Manufacture of Chemical Intermediates

- Roller blade wheels
- Cast elastomers
- Construction applications
- Urethane sealants
- Plastics and Polymers
- Industrial acidizing
- Food Processing
- Pharmaceuticals
- Water Treatment



FERTILIZER ∞



SULFUR

Chemical Formula: S8

Physical Characteristics: Solid-Bright yellow

Grade	Purity(on dry basis)	moisture(wt%)
Granular Sulfur	97.1-99.8	0.5-1.62

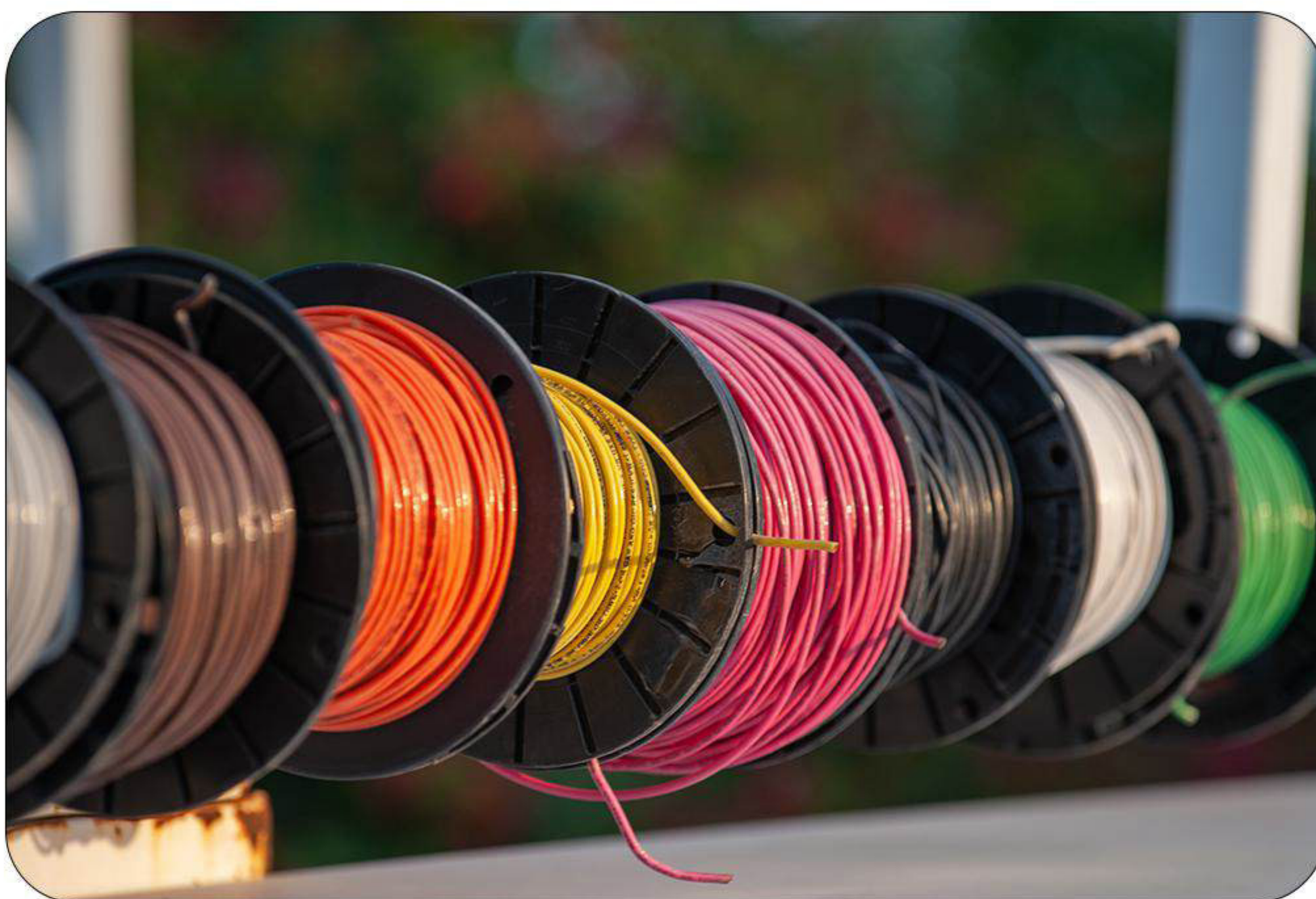
Packing:

- 25 kg Bags
- Jumbo Bag



Application:

- Sulphur compounds
- Sulfuric acid
- Fertilizers
- Tire
- Detergents petroleum refining
- Pharmaceuticals
- Electric insulators
- Gun powder
- Matches





AMMONIUM SULFATE

Chemical Formula: $(\text{NH}_4)_2\text{SO}_4$

Physical Characteristics: Solid- White crystalline (powder/granules)

Grade	Sulfur content %	Solubility in water %
AMMONIUM SULFAT	24%	755 gr/Litr

Packing:

- 50 kg Bags



Application:

- Agriculture
- A spray aid for insecticides
- Fungicides
- Water-soluble herbicides
- Wood industry
- Nylon
- Water
- Leather and tanning industries
- Livestock and poultry farming
- Food industry
- Bread dough
- Fire extinguishing powder
- Wastewater treatment





UREA

Chemical Formula: $\text{CO}(\text{NH}_2)_2$
Physical Characteristics: Solid- White granule

Grade	Nitrogen Content%	Urea Formaldhide(UF)Agent
Uncoated Prilled Urea	Min. 46	Max. 100
Coated Prilled Urea	Min. 46	Anti-Cake or Formaldehyde Treated

Packing:
- 50 kg Bags
- Jumbo Bag(1 MT)



PRILLED UREA

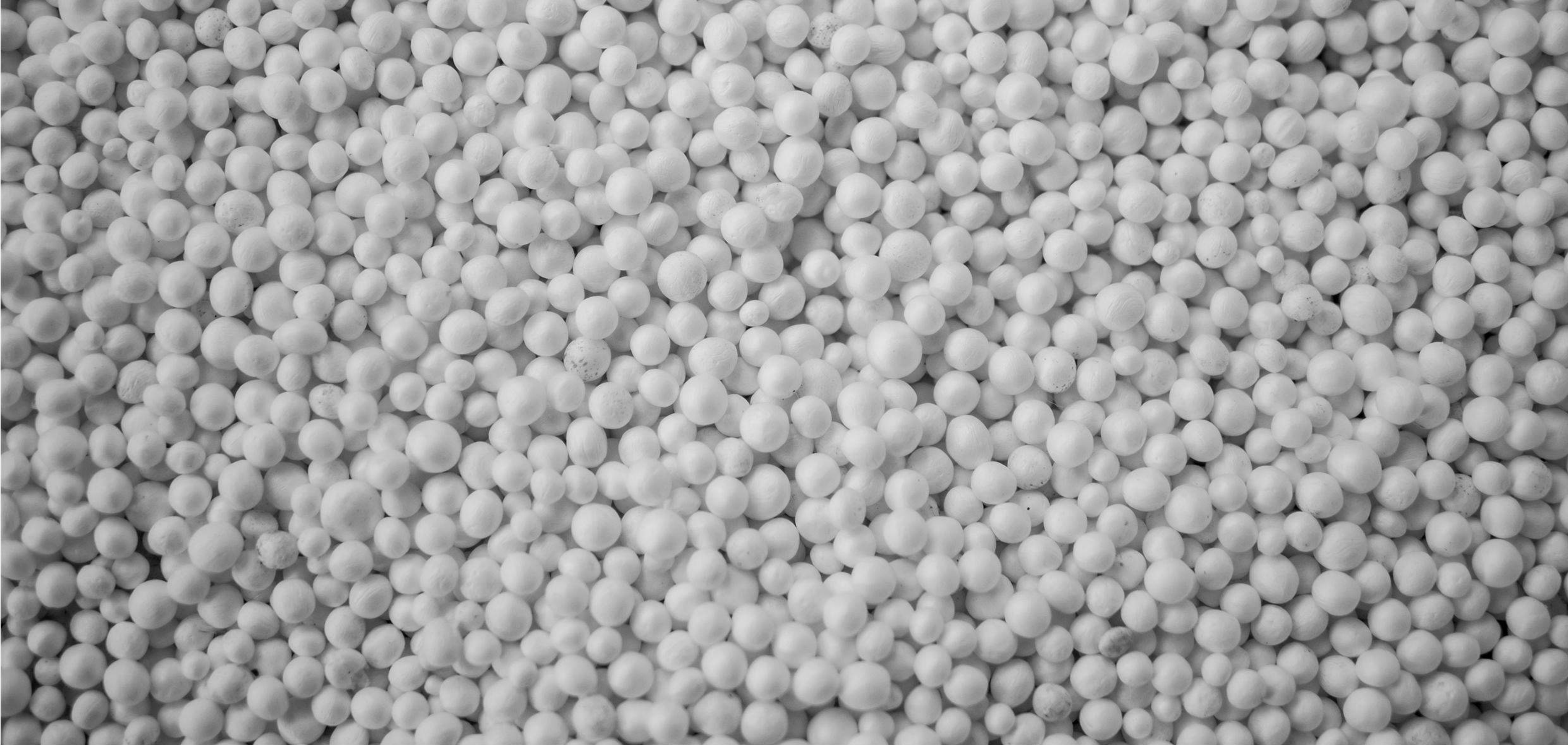
✓ **Uncoated prilled urea:**

- Application:**
- Fertilizer
 - Animal feed additives

✓ **Couted prilled urea:**

- Application:**
- medicine
 - Plastic
 - Rubber
 - Water
 - Nuclear
 - Paints
 - Printing Industry
 - Explosive
 - Lubricants
 - Metal
 - Industrial
 - Paper
 - Toothpastes
 - Treatment
 - Oil Industry
 - Textile Industry





GRANULAR UREA

Grade	Nitrogen Content(WT%)	Formaldehyde
Granular Urea	Min 46	0.3 - 0.55 max

Packing:

- 50 kg Bags
- Jumbo Bag(1 MT)



Application:

- Nitrogen-release fertilizer
- Melamine
- Adhesives
- Moldings
- Laminate
- Plywood
- Coatings.
- (SCR) system



**HEAVY ALKYL BENZENE(HAB)**Chemical Formula: $C_{28}H_{50}$

Physical Characteristics: Liquid – Semi light yellow to light brown

Grade	Density, gr/cm ³	Viscosity, cst
Heavy Alkylbenzene(HAB)	0.895 Max	15 Min

Packing:

- Bulk
- Drum
- IBC

**Application:**

- Cutting Oil
- Thermal Fluid
- Fuel Oil Additive
- Insulating Oil
- Anti corrosion additives
- Chemical lubricant
- Motor vehicle engine oil ingredients
- Refrigerating oils
- Textile
- Lube Industries
- Greases
- Lube oil
- Refrigerating oils
- Industrial detergent





LINEAR ALKYL BENZENE (LAB)

Chemical Formula: $C_6H_5C_nH_{2n+1}$ (n=10-13)
Physical Characteristics: Liquid – Colorless liquid

Grade	Density, gr/cm3	VISCOSITY(40°C)
LAB	0.8550-0.870	<10

Packing:

- Bulk
- Drum
- IBC



Application:

- Detergents
- Household cleaners
- Laundry cleaners





SODIUM BICARBONATE

Chemical Formula: NaHCO_3

Physical Characteristics: Solid–White Crystalline Powder

Grade	Purity	Solubility
Sodium Bicarbonate	Min 99%	9.6 g/100 ml

Packing:

- 25 kg Bags



Application:

- Food industry
- Polymer industries
- Leather tanning industry
- Textile industry
- Pharmaceutical industries
- Livestock and poultry feed industries
- Drinking water purification industries
- Fire extinguishing powder
- Detergent industries





SODIUM CARBONATE

Chemical Formula: Na₂CO₃
Physical Characteristics: Solid–White Powder

Grade	Purity	Solubility
Dense Soda Ash	0.85 - 1.1	99.2 - 99.6
Light Soda Ash	0.45 - 0.6	99.2 - 99.6

Packing:
- 50 kg Bags
- Jumbo bag (1250 kg,1200 kg)



Application:

- Glass
- Soaps
- Detergents
- Mineral-work
- Excavation
- Metal (Iron, Steel, Aluminum, etc.) recycling
- Metallurgic and Petroleum product recycling

- Textile industries
- Water treatment
- Detergent industry
- Sodium compounds
- Paper paste production





AMMONIA 99%

Chemical Formula: NH_3

Physical Characteristics: Liquid– colorless

Grade	Purity(wt%)	water content(wt%)	Oil content mg/kg
Ammonia 99%	99.9%	Max 0.1	Max 5
	99.7%	Max 0.35	Max 5

Packing:

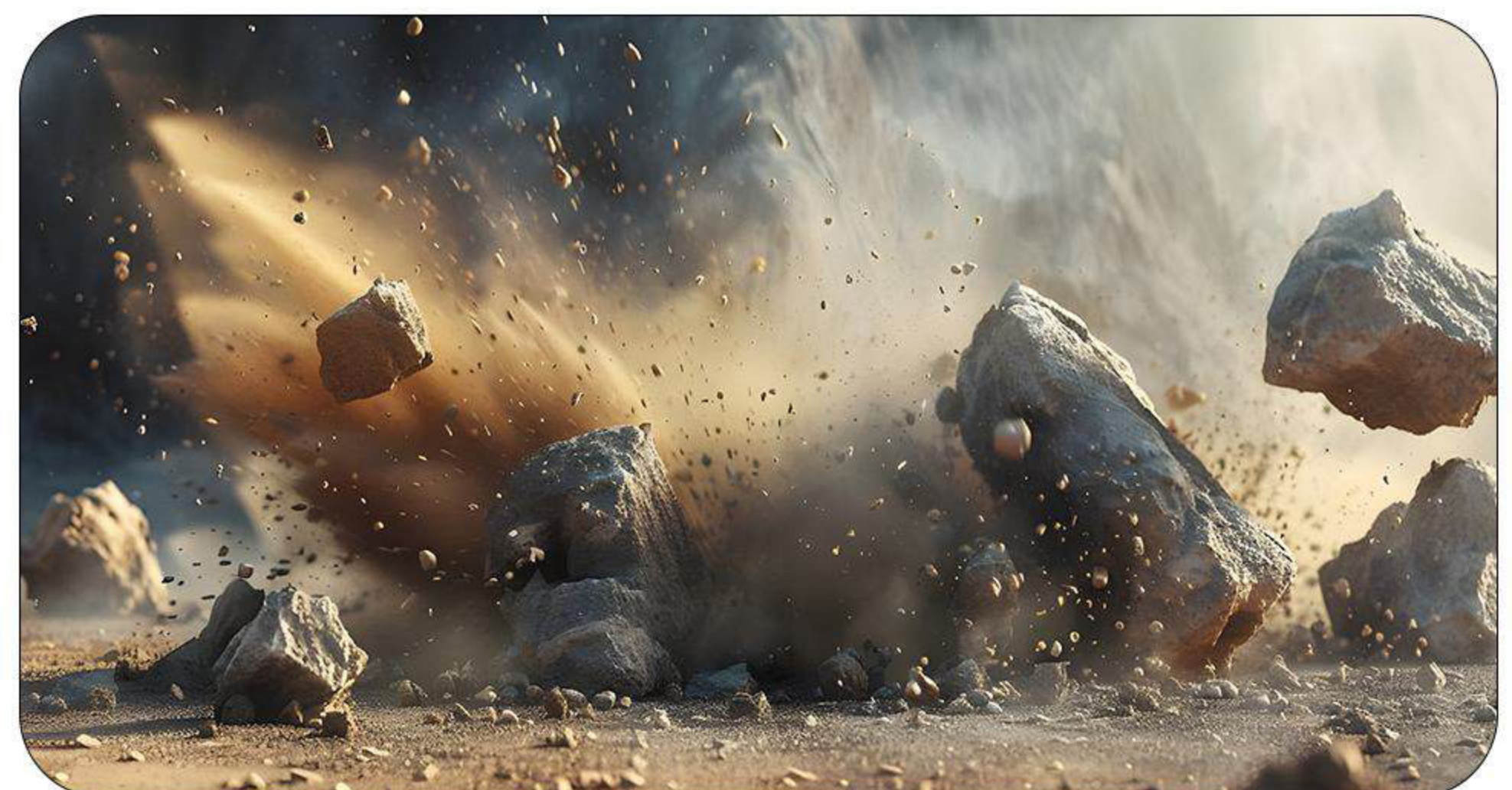
- Bulk



This product is shipped under the special conditions

Application:

- Chemical fertilizers
- Industrial sectors
- Explosives production
- Technology
- Drilling
- Gas transmission





AMMONIA SOLUTION 25%

Chemical Formula: NH_4OH

Physical Characteristics: Liquid – colorless

Grade	Piurty(wt%)	Density(gr/ml)
Ammonia	25%	0.91

Packing:

- Bulk



This product is shipped under the special conditions

Application:

- Agricultural industries
- Fertilizer production industries
- Medicine
- Textiles
- Water and wastewater treatment
- Paper industries
- Dye Production
- Metalworking operations
- Synthetic fiber and some plastics
- Acid neutralization
- Industrial refrigeration systems
- Rubber industries





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