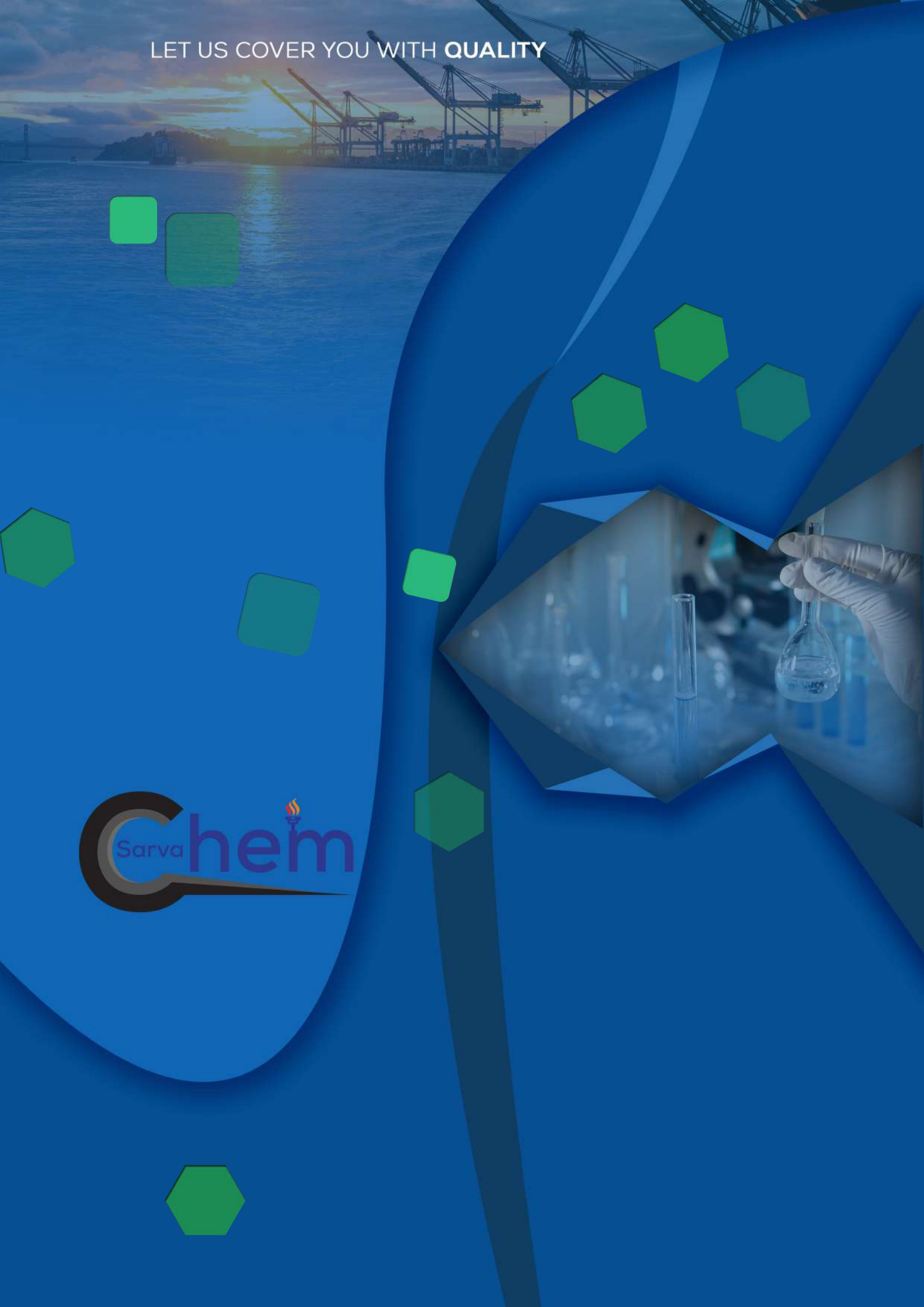


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# CAUSTIC SODA FLAKES

## 99%



Caustic Soda Flake (Solid Sodium Hydroxide) is a hazardous chemical compound used in different industries like textiles processings, detergents, paper and pulp industry and so on...

Chemical Formula: NaOH

Physical Characteristic: White Solid

Chemical Characteristic: A strong base that absorbs water from its surroundings

Packing: 25 KG Bags into 1 Mt Jumbo Bags

Applications:

- Water Treatment
- Disinfectants and Detergents
- Pulp and Paper
- Food Industry
- Oil and Gas
- Mining
- Drilling
- Aluminium Ore Processing
- Pharmaceuticals
- Textile Processing

Chemical Composition	Unit	Result
Sodium Hydroxide NaOH	% Wt	98.5 Min
NaCl	% Wt	0.04 Max
Na <sub>2</sub> CO <sub>3</sub>	% Wt	0.5 Max
Na <sub>2</sub> SO <sub>4</sub>	% Wt	0.01 Max
Fe	ppm Wt	5 Max
Ni pick up	ppm Wt	3 Max
SiO <sub>2</sub>	ppm Wt	100 Max
NaClO <sub>3</sub>	ppm Wt	50 Max
Hg	Nil	Nil
Heavy Metal	ppm	Less than 20



Sea Transportation 50 X  =  25 KG

20 X  = 25 Mt (20ft CTR) 

Land Transportation 50 X  =  25 KG

20 X  = 25 Mt 

# Calcium chloride

Calcium chloride is an inorganic compound. It is white powder or granular at room temperature, and is highly soluble in water.

Calcium chloride desiccants work well over a temperature range from freezing point up to 80 °C or more.

Molecular Formula: CaCl<sub>2</sub>

Physical Characteristic:

1. White Powder (94%)
2. White Granular/Powder (80%)

Chemical Characteristic:  
Highly soluble in water and deliquescent.  
A salt that is solid at room temperature, and behaves as a typical ionic halide.

Applications:

- Deicing and Anti-Icing
- Dust Control
- Water Treatment
- Food Additive
- Desiccant and Drying Agent
- Refrigeration and Cooling
- Pharmaceuticals
- Chemical Industry
- Humidity Control
- Industrial Processes

Chemical Composition	Unit	Result
Appearance	-	Whit Powder / Granular
Insoluble Solid	%	Max 3
Moisture	%	3.5
P.H	P.H	Min 7
Purity	%	Min 94 / 80



Sea Transportation 25 X



1000 KG

=

25 Mt  
(20ft CTR)



Land Transportation 25 X



1000 KG

=

25 Mt



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# SODIUM SULPHIDE (Na<sub>2</sub>S) FLAKES

Sodium Sulfide (Na<sub>2</sub>S) Flakes is a raw material used in various chemical manufacturing processes,

Chemical Formula: Na<sub>2</sub>S

Physical Characteristic: Yellow Solid

Chemical Characteristic: Reducible and corrosive alkaline substance.

Applications:

- Water Treatment
- Pulp and Paper
- Oil Recovery
- Sulfur Dyes
- Textile Processing



Chemical Composition	Unit	Result
Na <sub>2</sub> S	% Wt	60 Min
Fe	ppm	30 Max
Na <sub>2</sub> CO <sub>3</sub>	% Wt	0.5 Max
Na <sub>2</sub> SO <sub>3</sub>	% Wt	2 Max
<b>Unsoluble</b>	<b>ppm Wt</b>	<b>15 Max</b>
Density	kg/m <sup>3</sup>	1600 App
Melting Point	C	90
Colour	-	Yellowish

# SODIUM HYDROSULFIDE FLAKES (Sodium Sulphydrate)

Sodium Hydrosulfide (Na<sub>2</sub>S) Flakes is a raw material used in various chemical manufacturing processes,

Chemical Formula: NaHS

Physical Characteristic: Brown Solid

Chemical Characteristic: Reducible and corrosive alkaline substance.

Applications:

- Water Treatment
- Pulp and Paper
- Oil Recovery
- Sulfur Dyes
- Textile Processing



Chemical Composition	Unit	Result
NaHS	% Wt	66 Min
Na <sub>2</sub> S	% Wt	6 Max
Na <sub>2</sub> CO <sub>3</sub>	% Wt	0.5 Max
Na <sub>2</sub> SO <sub>3</sub>	% Wt	2 Max
Unsoluble	ppm Wt	10 Max
Density	kg/m <sup>3</sup>	1500 App
Melting Point	C	55
Colour	-	Brownish

Sea Transportation

40 X



=



20 X



=

20 Mt  
(20ft CTR)



Land Transportation

50 X



=



20 X



=

25 Mt



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# Granular Urea

Urea has important uses as a fertilizer, also it has been used as a raw material in different industries.

Molecular Formula:  $\text{CH}_4\text{N}_2\text{O}$

Physical Characteristic: White Granule Solid

Chemical Characteristic: Urea serves an important role in the metabolism of nitrogen-containing compounds.

Applications:

- Fertilizers
- Plywood Production
- Plastics
- Medicine
- Cosmetics
- Detergents

Chemical Composition	Unit	Result
Biuret	% Wt	Max 1
Free Ammonia	mg/Kg	100
Formaldehyde	% Wt	0.45-0.55
Water in Fertilizer	% Wt	0.2-0.4
Total Nitrogen Content	% Wt	Min 46
Ph (%10 Solution at 20 C)	-	8.5-9.5
Crushing Strength	Kg	3
Stowage Factor	m3/t	1.35 Bulk
Bulk Density	gr/lit	750/760



By Land

25 X



1000 KG

=

25 Mt



By Sea

25 X



1000 KG

=

25 Mt



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# Calcium Hypochlorite (Per Chlorine)

This chemical is a white and dry granular with a purity of 70%-65%. Calcium hypochlorite granules can be easily dissolved in water which are mainly used in water treatment to disinfect and remove bacteria, algae and micro-organisms.

Molecular Formula:  $\text{Ca}(\text{ClO})_2$

Physical Characteristic: White Granule Solid

Chemical Characteristic: An inorganic compound chlorine powder.

Applications:

- Disinfecting Drinking Water
- Sanitization of Swimming Pools
- Water Treatment
- Industrial

Chemical Composition	Unit	Result
Active Chlorine	% Wt	65
Sodium Chloride	% Wt	10
Solubility as Active Chlorine	% Wt	50
Amount of Water	% Wt	2-8
Residue on 425 Micrometer Sieve	% Wt	Max 75
Residue on 2 mm Sieve	% Wt	Max 20
Pb	mg/Kg	Max 8
Ni	mg/Kg	Max 8
Cr	mg/Kg	Max 12
Cd	mg/Kg	Nil



Sea Transportation

36 X



=

22 X



=

22 Mt  
(20ft CTR)



Land Transportation

36 X



=

22 X



22 Mt



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# SODA ASH DENSE



Soda Ash Dense (Dense Sodium Carbonate) is white, granule shaped product mostly used in glass industry also is a non-hazardous chemical compound.

Chemical Formula:  $\text{Na}_2\text{CO}_3$

Physical Characteristic: White Powder

Packing: There two ways of packing 50 KG bags in 1250 KG Jumbo bags or 1250 KG Jumbo bags only.

Applications:

- Bottle and Jar Production
- Industrial Glass Manufacturers
- Lead Refinement
- Glass Industry
- Glasswool Manufacturers
- Sodium Silicate Production

Chemical Composition	Unit	Result
Sodium Carbonate $\text{Na}_2\text{CO}_3$	% Wt	99.0-99.2
NaCl	% Wt	0.4-0.5
$\text{NaHCO}_3$	% Wt	0.01-0.1
$\text{Na}_2\text{SO}_4$	% Wt	0.04-0.07
Fe	ppm	60-80
Loss on Heating	% Wt	0.15-0.18
Moisture	% Wt	0.15-0.18
Characteristics		
$\text{Na}_2\text{O}$	% Wt	57.91-58.02
Pouring Density	$\text{g}/\text{cm}^3$	0.90-0.94
Mesh	% Wt	5.0-41.0
	% Wt	51.0-75.0
	% Wt	3.0-26408
	% Wt	0.2-1.5



# SODA ASH LIGHT

Soda Ash Light (Light Sodium Carbonate) is one of the non-hazardous, most traded chemical compounds in the world which has been mostly used in chemical industry.

Chemical Formula:  $\text{Na}_2\text{CO}_3$

Physical Characteristic: White Powder

Packing: There two ways of packing 50 KG bags in 1 Mt Jumbo bags or 1 Mt Jumbo bags only.

Applications:

- Chemical Production
- Disinfectants and Detergents
- Pulp and Paper
- Animal Food Industry
- Sodium Bicarbonate Production
- Tile and Ceramic Industry
- Oil Drilling Industry
- Water Treatment
- Sugar Production Industry

Chemical Composition	Unit	Result
Sodium Carbonate $\text{Na}_2\text{CO}_3$	% Wt	99.0-99.2
NaCl	% Wt	0.4-0.5
$\text{NaHCO}_3$	% Wt	0.01-0.1
$\text{Na}_2\text{SO}_4$	% Wt	0.04-0.07
Fe	ppm	60-80
Loss on Heating	% Wt	0.15-0.18
Moisture	% Wt	0.15-0.18
Characteristics		
$\text{Na}_2\text{O}$	% Wt	57.91-58.02
Pouring Density	$\text{g/cm}^3$	0.57-0.60



By Land

20 X



50 KG

=



1000 KG

>

25 X



=

25 Mt



By Sea

25 X



1000 KG

=

20 Mt  
(20ft CTR)



By Land

25 X



1000 KG

=

25 Mt





# SULFUR



Sulfur is one the most important chemical elemnts used as an industrial raw material, main derivative of sulphur is sulphuric acid (H<sub>2</sub>SO<sub>4</sub>).

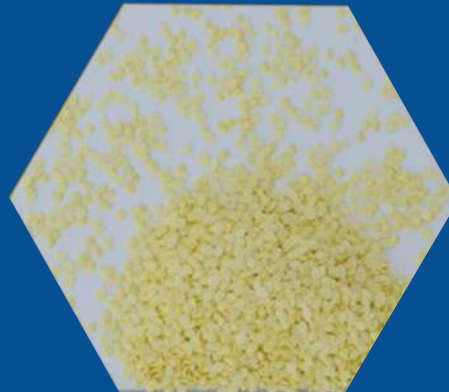
Chemical Formula: S<sub>8</sub>

Physical Characteristic: Pale Yellow in Colour

Applications:

- Bateriaes
- Detergents
- Fertilizers
- Gun Powder
- Matches and Fireworks
- Fungicides

Chemical Composition	Unit	Result
Colour	-	Yellow
Ash and Hydrocarbon Content	% Wt	Max 0.2
Purity on dry basis	% Wt	Min 99.8
Moisture	% Wt	Max 0.5
Acidity as H <sub>2</sub> SO <sub>4</sub>	% Wt	Max 0.2
Bulk Density in Lump	kg/m <sup>3</sup>	1100-1700
Bulk Density in Pastille	kg/m <sup>3</sup>	1100-1500
Main Pastille Size	mm	2-5
Size Distribution in Pastille	%	>5mm %10 Max
	%	2-5mm %75 Min
	%	<2mm %15 Max



By Land

25 X



1000 KG

=

25 Mt



By Sea

25 X



1000 KG

=

25 Mt



# Linear Alkyl Benzene (LAB)

Linear Alkyl Benzene (LAB) is a chemical compound mostly used in detergents and industrial cleaning manufacturing which turns into LABSA after being Sulphonated.

Chemical Formula:  
 $C_6H_5C_nH_{2n+1}$

Physical Characteristic:  
 Light Yellow

## Applications:

Linear alkylbenzene is sulfonated to produce linear alkylbenzene sulfonate (LAS), a biodegradable surfactant. LAS replaced branched dodecylbenzene sulfonates, which were phased out because they biodegrade more slowly.

Chemical Composition	Unit	Result
Linear Alkyl Benzene	% Wt	92 Min
Tetralins	% Wt	1 Max
Sulfonatability	% Wt	98 Min
-2Phenyl Alkanes	% Wt	20 Max
Flash Point	C	140 Min
Acid Wash Color	%T	15 Min
Moisture	ppm	200 Max
Total Normal Paraffin	%Wt	0.5 Max
Saybolt Color	-	+29 Min
Doctor Test	-	Negative

Sea Transportation

4 X



=

32 X



=

24 Mt  
(20ft CTR)



Land Transportation

128 X



=

24 Mt



# Linear Alkylbenzene Sulfonic Acid (LABSA)

Linear Alkylbenzene Sulfonic Acid (LABSA) has been used in different industries and it has been made out of organic sulfur compounds.

Molecular Formula:  $C_nH_{2n+1}SO_3H$

Physical Characteristic: Brown Viscous Liquid

Chemical Characteristic: A non-poisonous strong acid.

Chemical Composition	Unit	Result
Appearance	-	Brown Viscous Liquid
Active Matter	%	Min 96.0
Colour	Klett	Max 40.0
Free Oil (Linear Alkyl Benzene)	%	Max 2.0
Free Acid (H <sub>2</sub> SO <sub>4</sub> )	%	Max 1.8
Moisture (H <sub>2</sub> O)	%	Max 0.5

## Applications:

- Detergents
- Disinfectants
- Soaps
- Liquid Soaps
- Cleaning Powder
- Washing Powder
- Pharmaceuticals
- Color Production
- Battery Production



Sea Transportation

4 X



=



20 X



=

18 Mt  
(20ft CTR)



Land Transportation

110 X



=

24 Mt



# Sodium Lauryl Ether Sulfate (SLES %70)

TEXAPON N70 or SLES %70 is a highly concentrated sodium lauryl ether sulphate derived from natural fatty alcohols

Chemical Formula:  
 $\text{CH}_3(\text{CH}_2)_{10}(\text{OCH}_2\text{CH}_2)_n\text{OSO}_3\text{Na}$

Physical Characteristic:  
 White or Light Yellow Jelly

Chemical Characteristic:  
 Neutral salt,  
 Hazardous,  
 Organic Compound

Chemical Composition	Unit	Result
Appearance	-	Light Yellow
Activity	%	68-73
Colour	mg Pt/g	0-25
NaCl	%	0-0.1
Na <sub>2</sub> SO <sub>4</sub>	%	Max 1
Ph	-	7-9 20@ C

## Applications:

- Shampoo
- Detergents
- Soaps
- Toothpaste
- Liquid Soaps
- Dishwash
- Foaming agent for textile



Sea Transportation

4 X



=

20 X



=

18 Mt  
(20ft CTR)



Land Transportation

110 X



=

24 Mt



# Sodium Bicarbonate

Sodium bicarbonate, also known as baking soda used in different industries like paper making, detergents, food industry and so on. Three grades are:

- Food Grade
- Feed Grade
- Industrial Grade

Chemical Formula:  $\text{NaHCO}_3$

Physical Characteristic: White Crystals or Powders

Applications:

- Food Additive
- Cosmetics
- Printing
- Paper-Making
- Tannage
- Detergents

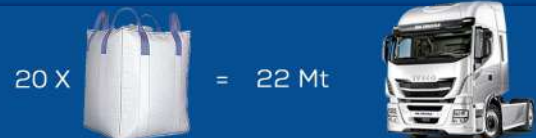
Chemical Composition	Unit	Result
$\text{NaHCO}_3$	% Wt	99
Sodium Carbonate	% Wt	1
Heavy Metals as Pb	% Wt	0.0005
As	% Wt	0.0001
Loss on drying	% Wt	0.25
Cl	% Wt	0.4
Ph Value (10 g/L solution)	% Wt	8.6



Sea Transportation



Land Transportation



# Sodium Hypochlorite (Bleach)

Sodium Hypochlorite (Bleach) is a chemical compound used in cleaning and detergents industries, MBR cell method, the produced sodium hypochlorite has no metallic impurities.

Chemical Formula:  $\text{NaClO}$

Physical Characteristic:  
Clear Yellowish Green Liquid and Solution

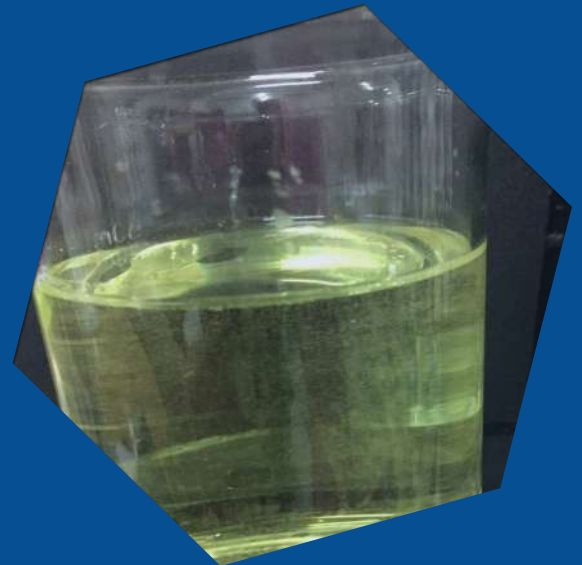
Chemical Characteristic:  
Sodium Hypochlorite has antiseptic properties and it's because of production of free chlorine. It is an unstable solution and gradually loses its properties due to heat and light.

Purity: %15 to %16

## Applications:

- Disinfection
- Decontamination
- Decolorizer
- Bleach of Pulp and Textile Fibers
- Hygienic Disinfectant for Home use

Chemical Composition	Unit	Result
Active Chlorine	g/l	120-180
Free Alkaline as NaOH	% W/V	Min 0.9
Density	g/cm <sup>3</sup>	1.2
Sodium Chlorate	% W/V	0.2
Sediment	% W	Max 0.05
Fe	ppm	Max 1
$\text{Na}_2\text{CO}_3$	% W/V	Max 0.05
Co	ppm	Nil
Cu	ppm	Nil
Ni	ppm	Nil



Sea Transportation



22 X



23 Mt  
(20ft CTR)



Land Transportation



=

24 Mt



# Sodium Silicate



Sodium Silicate also known as water-glass or liquid glass which is colorless or white, but its commercial samples are often greenish or blue; owing to the presence of iron-containing impurities.

Molecular Formula:  $(\text{Na}_2\text{SiO}_2)_n\text{O}$

Physical Characteristic: White Solid

Chemical Characteristic: A non-hazardous inorganic sodium salt

## Applications:

- Automobile Industry
- Ceramic and Tile Industry
- Concrete and Cement Making
- Industrial Cleaning
- Plastic Industry
- Pulp and Paper

Chemical Composition	Unit	Result
Appearance	-	Crystalline Solid
Na <sub>2</sub> O	%	32.2 / 34.4
SiO <sub>2</sub>	%	65.8/ 67.8
Ratio		1.9 / 2.1
Density	20 C Baume	52/45
Purity	%	Min 98



Sea Transportation 25 X



1000 KG

=

25 Mt  
(20ft CTR)



Land Transportation 25 X



1000 KG

=

25 Mt



# White Spirit (Solvent 402)

White Spirit is a petroleum distillate used as paint thinner and mild solvent which is a mixture of chemicals known as petroleum hydrocarbons.

Chemical Formula:  $C_nH_{2n-6}$

Physical Characteristic:  
Clear, Colorless, Non-Viscous Solvent

Chemical Characteristic:  
Flammable, Clear liquid

Applications:

- Paints
- Coatings
- Waxes
- Varnishes
- Adhesives
- Printing
- Ink

Chemical Composition	Unit	Result
Density	g/cm <sup>3</sup>	0.7988
Flash Point	C	45
Total Sulfur	% Wt	0.026
Corrosion Strip Corrosion	-	1a
Mercaptan	ppm	22.4
Color	-	20
Aromatics	Vol%	0
Benzen	Vol%	0



Sea Transportation



22 X



18 Mt  
(20ft CTR)



Land Transportation



=

24 Mt





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