INDICATIVE SPECIFICATION

Name: Caustic Soda Prills (Pearl) & Caustic Soda Solid (Flakes)

Chemical Name: Sodium Hydroxide
CAS. No: 1310-73-2
UN No.: 1823
Chemical Formula: NaOH
Form: Deliquescent solid, can be in the form of pellets or sticks
Colour: White
Boiling Point (°C): 1390
Melting Point (°C): 318
Solubility (water): Soluble with evolution of heat
Solubility (other): Alcohols, Glycerol
Specific Gravity: 2.13 (Water = 1 at 4 °C)
Bulk Density (g/ml): 1.175

<table>
<thead>
<tr>
<th>Chemical Composition</th>
<th>Prills</th>
<th>Flakes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hydroxide NaOH</td>
<td>99% wt. min *</td>
<td>99% wt. min *</td>
</tr>
<tr>
<td>NaCl</td>
<td>0.022% wt. max.</td>
<td>0.022% wt. max.</td>
</tr>
<tr>
<td>Na2CO3</td>
<td>0.94% wt. max.</td>
<td>0.94% wt. max.</td>
</tr>
<tr>
<td>Na2SO4</td>
<td>0.038% wt. max.</td>
<td>0.038% wt. max.</td>
</tr>
<tr>
<td>Fe</td>
<td>5 ppm wt. max.</td>
<td>50 ppm wt. max.</td>
</tr>
<tr>
<td>Ni pick up</td>
<td>3 ppm wt. max.</td>
<td>3 ppm wt. max.</td>
</tr>
</tbody>
</table>
* on dry basis

Packing: 25 Kgs Bags, 25 Kgs Drums, 400 Kg Drum, Jumbo Bags
Slip Sheet. Wooden Palletisation where ever possible.

Contd…
Caustic Soda Prills (Pearl) & Caustic Soda Solid (Flakes) also known as Sodium Hydroxide (NaOH) in the Chlor-Alkali world is used in various applications by numerous industries worldwide.

Agriculture
* Combating foot and mouth diseases
* Decomposing straw

Beverages and Dairies
* Cleaning of fats
* Water treatment
* Cleaning of equipment
* Ion exchange resin regeneration

Chemical Production
* Sodium aluminate, Sodium Cyanide
* Alumina, Silicate, Polycarbonate
* Zeolites, Epoxides
* Pigments (Titanium oxide)
Contd…

Detergents, Soaps and Cleaners
* Sodium tripolyphosphate (detergents)
* Sodium hypochlorite (household bleach, disinfectant)
* Soaps, household cleaning
* Oven cleaners, drain pipe cleaners

Food Processing Edible Oil Refining
* Production of Pretzels
* Refining of edible oils
* Treatment of straw to improve nutrition value and digestability
* Lye peeling of fruits and vegetables

Municipal Water and Sewage Treatment
* pH control
* Odour treatment
* Effluent treatment
* Descaling of piping networks

Oil & Gas Production
* pH control in drilling mud
* Removal of bactericide and Calcium
* Alkaline flooding of oil fields
* Scrubbing off-gases

Contd…
Contd…

Petroleum and Natural Gas Processing
* Removal of acidic contaminant from refined products
* Extraction of phenols
* Scrubbing of off-gas

Pharmaceutical
* Sodium phenolate (Antiseptics, Aspirin)
* Various production processes

Textile Finishing Process
* Scouring to remove contaminants
* Bleaching with oxidizing agent
* Mercerizing to improve luster and dye absorption

General Purpose
* pH Control
* Water acid neutralization
* Catalysis/Drying agent
* Paint stripper, polishes
* Degreasing agent for cleaning metal surfaces
* De-enamelling
* Ion Exchange resin regeneration
* Scrubbing of off-gases