



PROFESSIONAL SOLUTIONS

CAUSTIC SODA

100% Prilled Beads of Sodium Hydroxide

Caustic Soda is Sodium Hydroxide - available in a "prilled" form, i.e. small uniform beads of the purified chemical with very low dust levels.

Uses:

Sodium Hydroxide is the principal strong base used in the chemical industry. It is also used for heavy duty and industrial cleaning.

Soap Production: Sodium Hydroxide is traditionally used in soap making (cold pressed soap, saponification).

Biodiesel: For the manufacture of biodiesel, sodium hydroxide is used as a catalyst for the transesterification of methanol and triglycerides.

Aluminium Etching: Strong bases attack aluminium. Sodium Hydroxide reacts with aluminium and water to release hydrogen gas. In this reaction, Sodium Hydroxide acts as an active catalyst. This reaction can be used in etching, removing anodizing, or converting a polished surface to a satin-like finish, but without further passivation such as anodizing alodining the surface may become degraded, either under normal use or in severe atmospheric conditions.

Cleaning Agent: Sodium Hydroxide is frequently used as an industrial cleaning agent where it is often called "caustic". It is added to water, heated, and then used to clean the process equipment, storage tanks, etc. It can dissolve grease, oils, fats and protein based deposits. The sodium hydroxide solution can also be added to surfactants to stabilise dissolved substances to prevent disposition. A Sodium Hydroxide soak solution is used as a powerful degreaser on stainless and glass bakeware. It is also a common ingredient in oven cleaners.

Leaded Glass Window Restoration: Sodium Hydroxide can be used to dissolve old "weatherproofing cement" in leaded glass windows by soaking the panels overnight in a solution of Sodium Hydroxide.

Paint Stripping: A solution of sodium hydroxide in water was traditionally used as the most common paint stripper on wooden objects. Due to its caustic nature and the fact that it can damage the wood surface raising the grain and staining the colour, its use has been less common.

Domestic Uses: Sodium Hydroxide is used in the home as a drain cleaning agent for clearing clogged drains. It is distributed as a dry crystal or as a thick liquid gel. The chemical mechanism employed is the conversion of grease to a form of soap. Soap is water-soluble, and can be dissolved by flushing with water. This conversion occurs far more rapidly at high temperatures, so commercial drain cleaners may also contain chemicals that react with water to generate heat. Sodium Hydroxide also decomposes complex molecules such as the protein that composes hair. Such drain cleaners (and their acidic versions) are highly caustic and should be handled with care.

Caustic Soda:

- ✓ Cleans
- ✓ Disinfects
- ✓ Concentrated - value for money
- ✓ For commercial or domestic use



Custom Chemicals International Pty Ltd

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USES FOR HEAVY INDUSTRIAL CLEANING

Directions for Use:

WARNING: When Caustic Soda is added to water it produces a strong exothermic reaction - it generates a lot of heat and fumes!

NEVER ADD CAUSTIC SODA TO HOT WATER!!

NEVER ADD A SMALL QUANTITY OF WATER TO A LARGE QUANTITY OF CAUSTIC SODA!!

To prepare a solution of caustic soda, apply personal protective equipment, then add in **SMALL** portions to a larger volume of water with stirring.

PHYSICAL AND CHEMICAL PROPERTIES :

SPECIFICATIONS

APPEARANCE

ODOUR

ALKALINITY

pH

FOAM HEIGHTS

PHOSPHATES

BIO-DEGRADABILITY

SURFACTANT TYPE

SOLUBILITY

TYPICAL VALUES

Solid, white, translucent pearls

Odourless

Alkaline

13.7 (1% solution)

None

None Present

Readily Bio-degradable

Not applicable

Complete in water.



BIODEGRADABILITY

Caustic Soda is readily biodegradable according to Australian Standard AS 4351.



HEALTH & SAFETY

- Classified as Dangerous Goods, according to the ADG Code.
- Classified as a scheduled 6 poison, according to the SUSMP.



IMPORTANT INFORMATION

For more product information or to obtain a Safety Data Sheet (SDS) contact Custom Chemicals International on 07 3204 8300 or email us on sales@customchem.com.au with your enquiry.



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