LEATHER CHEMICALS BROCHURE

www.chemtradeasia.com

About Us

Tradeasia International Pte. Ltd. is a privately owned, independent company headquartered in Singapore. We are a global trading organization providing integrated chemical procurement services with certainty and trust, which makes Tradeasia unique.

Tradeasia International was setup with the sole intention of carrying out chemical distribution services especially to commodity industries in many parts of the world. Today, Tradeasia International represents a growing number of businesses that are serving a variety of markets. We source and supply about 500-600 containers monthly to our customers worldwide.

12	50+	500+	400+
Locations	Suppliers	Products	Clients

Formic Acid

Formic acid is the simplest carboxylic acid and has a formula of HCOOH. Formic acid can be found in the venom of ants. It has a pungent and penetrating odour at room temperature. It is also miscible with water and most polar organic solvents but immiscible in non-polar solvents. Formic acid can be manufactured via several processes: hydrolysis of methyl formate, by-product of acetic acid production and hydrogenation of carbon dioxide.

HS Code	: 2915.11.00
CAS No.	: 64-18-6
Origin	: China
Packaging	: • 1000 @ 25 kg PE Jerry cans, 25 MT / 20'FCL • 980 @ 25 kg Galvanized Drum, 24.5 MT / 20'FCL

Specifications:

Property	Unit	Value
Appearance		Clear, colourless liquid
Purity	%	85
Odor		Pungent
Cl^-	%	≤0.0060
SO_4^{2-}	%	≤0.020
Fe^{3+}	%	≤0.0006
Residue	%	≤0.06

Applications :

Textile & Dyes Industries

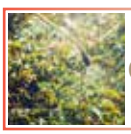
Formic acid is used in dyeing and dye fixing, setting and retaining colors in fibers. Due to its acidic nature, it is also used as a neutralizing agent and pH adjuster in textile processing and finishing of textile.

Leather Industry

Formic acid is used in leather tanning and production during the pickling process to lower the pH of the hides or skins.

Agriculture Industry

Formic acid is also used as a preservative and antibacterial agent in livestock feed. It also allows fermentation to occur quickly, and at a lower temperature, reducing the loss of nutritional value.



Other Applications

Formic acid has a wide range of uses. It is used as a miticide, to kill tracheal mite. It is used instead of mineral acids in some cleaning products such as lime scale remover and toilet cleaners. Its esters are used in the making of perfumes.

Sodium Formate

Sodium formate, HCOONa, is the sodium salt of formic acid, HCOOH. It usually appears as a white deliquescent powder. Sodium formate is used in several fabrics dyeing and printing processes. It is also used as a buffering agent for strong mineral acids to increase their pH, as a food additive (E237), and as a de-icing agent.

HS Code	: 2915.12.00
CAS No.	: 141-53-7
Origin	: China
Packaging	: 1000 @ 25 kg PP/PE bags, 25 MT / 20'FCL

Specifications:

Property	Unit	Value
Appearance		Water powder
Purity	%	97 (min)
NaOH	%	0.50 (max)
NaCl	%	1.50 (max)
Na_2CO_3	%	1.50 (max)
Moisture	%	0.50 (max)

Applications :

Intermediate Chemicals

Sodium formate is used in the manufacture of sodium hydrosulfite, a common reductive bleaching chemical.

Leather Industry

Sodium formate is used during the tanning process to assist with the penetration of chromium tanning salts into the hides or skins

Other Applications

Sodium formate is used to improve the brightness and color in dyeing/printing fabrics and paper. Sodium formate is also used in liquid detergent as a builder or an enzyme stabilizer

Caustic Soda Flakes

Caustic soda, also known as sodium hydroxide, is an inorganic alkali salt which is hygroscopic in nature and is soluble in both water and polar solvent. Common form of caustic soda are flakes and pearls. It has a slippery feel and absorbs carbon dioxide in the atmosphere to form sodium carbonate.

HS Code	: 2815.11.00
CAS No.	: 1310-73-2
Origin	: China, India, Taiwan
Packaging	: 1000 @ 25 kg PP/PE bags, 25 MT / 20'FCL

Specifications:

Property	Unit	Value
Apperance		White flakes, pearls, micropearls
Purity	%	98.0 (min)
Density	g/cm^3	2.13
Boiling Point	°C	1388
Melting Point	°C	318
Solubility in Water	g/100mL	41.8

Applications :

Textile Industry

Caustic soda is used in the manufacturing of textile. Caustic soda is used in the scouring process, mercerization process, as well as dyeing process.

Leather Industry

In leather industry, caustic soda is used during the liming process to help swell the hides or skins

Paper Industry

Caustic soda is used in pulp and paper industry during the cooking process and oxygen delignification process.

Detergent Industry

It is also used to manufacture soap and detergents, applied during the saponification process in soap industry and neutralization process in detergent industry..

Sodium Bicarbonate

Sodium bicarbonate, also known as baking soda, sodium acid carbonate, sodium hydrogen carbonate, or bicarbonate of soda is chemical compound that has formula $NaHCO_3$. It appears as white crystalline or powder and easily soluble in water or any mineral springs. Sodium bicarbonate occurs in nature in the form of mineral nahcolite or thermokalite.

HS Code	: 2836.30.00
CAS No.	: 144-55-8
Origin	: China
Packaging	: 1000 @ 25 kg PP/PE bags, 25 MT / 20'FCL

Property	Unit	Value
$NaHCO_3$	%	99 (min)
Arsenic (As)	ppm	2 (max)
Iron (Fe)	ppm	20 (max)
Heavy Metals (Pb)	ppm	10 (max)
Sulphate (as SO4)	%	0.03 (max)
Chloride (Cl)	%	0.01 (max)

Applications :

Food Industry

In the food industry, sodium bicarbonate is commonly used as a starter. The mixture of sodium bicarbonate and acid can be used as a rising agent as a yeast substitute. Another use of sodium bicarbonate is to produce effervescent salt and beverages.

Leather & Textile Industries

Sodium bicarbonate is widely used in the textile industry for dyeing and printing operations. The leather industry also uses sodium bicarbonate as a neutralizing agent in the tanning process.

Pharmaceutical Industry

When sodium bicarbonate is mixed with water, it will produce a basic solution that can be used to neutralize excess stomach acid, as an antacid for the person who suffers from heartburn and decreasing acidity of urine to treat kidney disorder.

Cosmetic Industry

Sodium bicarbonate is used in cosmetics to control the balance of acid-base (pH adjuster). Small amount of sodium bicarbonate can be added to shampoo to create shiny hair and removes product residues.

Basic Chromium Sulphate

Basic chromium sulfate is an inorganic compound with the chemical formula $Cr(OH)(SO_4)$. It is a green, odorless solid at room temperature. It is typically sold in powder form. Basic chromium sulfate has high tanning power and hence largely used in the tanning of leather. It is easily soluble in cold water and very soluble in hot water. Chromium, particularly in the hexavalent oxidation state, is toxic, hence basic chromium sulfate, which is comparatively less toxic.

HS Code	: 3202.90.00
CAS No.	: 12336-95-7
Origin	: China
Packaging	: 800 @ 25 kg PP/PE bags 20 MT / 20'FCL

Specifications:

Property	Unit	Value
Appearance	%	Dark green powder
Cr_2O_3 content	%	24 - 26
Basicity	%	32 - 34
Iron Content (Fe)	%	0.1 (max)
Water Insoluble Material	%	0.1 (max)

Applications :

Leather Industry

Basic chromium sulphate can be used in the tanning and re-tanning of any kind of leather, for example, even hides and skin. This process is commonly referred to as chrome tanning. Basic chromium sulphate is regarded as the most efficient and effective tanning agent. The basic chromium sulphate dissolves to give rise to products, that at high pH, undergo a process called olation to give polychromium compounds that are responsible for the cross linking of the collagen subunits, thus being the most active part of the tanning process.

Other Applications

Basic chromium sulfate can also be used in making ceramics, green ink and organic substances. It can also be used for dyeing and printing.

CONTACT US

133 Cecil Street, #12-03 Keck Seng Tower,
Republic of Singapore - 069535

Tel : +65-62276365
Fax : +65-62256286
Email : contact@chemtradeasia.com