



Chloritech Industries



Synthesizing intermediates
for the chemical industry



Hari Orgochem Pvt. Ltd.

ISO 9001
BUREAU VERITAS
Certification



008



Profile

Chloritech Industries (CTI) was founded in 1977 to manufacture Chloral as a pesticide intermediate for Dichlorvos and DDT. The company specializes in bulk chlorination using glass lined vessels ranging from 500 Lts to 10,000 Lts capacity.

CTI has a capacity to produce 6000 MT of Chloral per year. The company also produces Ethyl Chloride (1800 MT per year), Chloral Hydrate and Trichloroacetic Acid (Technical and ACS Grade). CTI has its own ISO for exporting Chloral and Ethyl Chloride.

Hari Orgochem Pvt. Ltd (HOPL) was established in 1985 to manufacture Trichloroacetyl Chloride (Agrochemical Intermediate for Chlorpyrifos) and Pivaloyl Chloride (Pharmaceutical and Agrochemical Intermediate).

HOPL's Nandesari Unit utilizes over 50 Glass Lined Reactors and has a capacity to produce 8000 MT per annum of Acid Chlorides. The company has adequate infrastructure to handle hazardous chemicals like Chlorine, Thionyl Chloride and Sulfur Monochloride.

HOPL's Manjusar Unit is spread over 20 acres of land and is configured as a multi-purpose plant. The unit specializes in handling contract manufacturing as well as synthesizing chemicals on a semi-bulk scale (10 MT – 1000 MT/year) and specialty applications. Some of the unit processes performed here include Nitration, Fractional Distillation, Photo-chlorination, Ammonolysis and Esterification.

The group also has business interests in the field of Silk Textiles and Agricultural Biotechnology.





A world of
**chemical
intermediates**



Core Competencies

The strength of our group is derived from the capability to handle different chemistries and synthesize products in-house along with successful execution of the scale-up from lab-scale to bulk quantities. We have expertise in handling corrosive and hazardous chemicals and are especially strong in chlorinated products.

Chlorination (direct and in direct)

Esterification

Photochlorination

Ammonolysis

Nitration

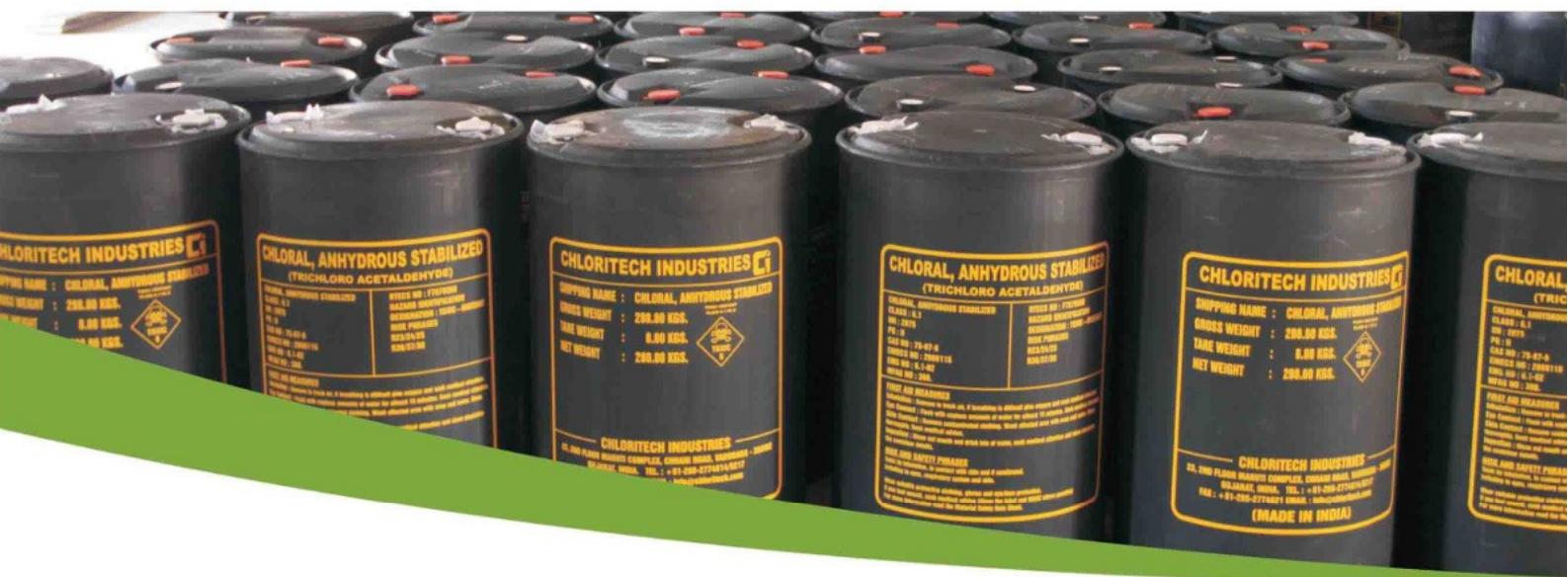
Fractionation

Quality

At Chloritech Industries and Hari Orgochem Pvt. Ltd., we take pride in manufacturing and supplying products of the best quality to our customers. We are also committed to ensure that our products are adequately packed and transported so that they reach our customers in a safe condition.

Hari Orgochem Pvt. Ltd. is an **ISO 9001:2008** certified company.





Chloral Anhydrous

Nomenclature

Trichloroacetaldehyde

Formula

CCl_3CHO

CAS Number

75-87-6

Molecular Weight

147.4 gm/mole

Appearance

Clear colourless liquid



SPECIFICATIONS:

Assay (by G.C)	99% Min
Dichloroacetaldehyde	0.3% Max.
Moisture Content (By Karl Fischer)	0.02% Max
Acidity (as HCl)	0.1% Max

OTHER INFORMATION:

Packing	280 kg HDPE or HDPE lined MS drums or in Isotanks
UN Number	2075
Storage	Keep away from moisture, alkali and acids. Store in a cool dry place, away from light
Precautions	Corrosive to skin

Note: The information given in this Data Sheet is based on the present state of our knowledge. Any conclusions and recommendations are made without liability on our part. Buyers and users should make their own assessment of our products under their own conditions and for their own requirements.



Chloral Hydrate

Nomenclature

2,2,2-Trichloro-1,1-diol, Trichloroacetaldehyde monohydrate

Formula $C_2H_3Cl_3O_2$ **CAS Number**

302-17-0

Molecular Weight

165.4 gm/mole

Appearance

White Crystals

SPECIFICATIONS:

Assay (by titration) 99% - 103% w/w Min

Moisture Content 11.5% w/w Max

USES:

Electrolysis, Pickling agent, Pharmaceutical as a drug

OTHER INFORMATION:

Packing 50 Kgs with LDPE double liners in open mouth HDPE carboys

Storage Keep away from moisture, water and alkali. Store in a

cool dry place, away from light

Precautions Harmful, Sedative

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Ethyl Chloride

Nomenclature

Ethyl Chloride, Chloroethane

Formula

$\text{CH}_3\text{CH}_2\text{Cl}$

CAS Number

75-00-3

Molecular Weight

64.5 gm/mole

Appearance

Liquefied gas



SPECIFICATIONS:

Acidity as HCl or Alkalinity as NaOH 10 ppm w/w Max

Moisture Content 250 ppm w/w Max

Assay (by G.C) 99.9% Min

USES:

Used for Ethyl Cellulose, Dye Intermediates, Pharmaceutical products and in Petrochemical and Polymer industry

OTHER INFORMATION:

Packing

200 Kgs. & 600 Kgs. Cylinders and in IMO 5 gas tank

UN Number

1037

Storage

Keep away from direct sunlight, heat or flame

Precautions

Toxic and irritating gases are produced in a fire. Highly flammable liquefied gas

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Hexachloroacetone

Nomenclature

Hexachloroacetone, Perchloroacetone, HCA

Formula

$\text{Cl}_3\text{C-CO-CCl}_3$

CAS Number

116-16-5

Molecular Weight

264.75 gm/mole

Appearance

Clear Colourless Liquid

SPECIFICATIONS:

Assay (by GC)

99% Min

Moisture Content

0.3% w/w Max

USES:

In producing insect repellent. Chlorinating agent for drugs. In manufacture of Hexafluorobisphenol A

OTHER INFORMATION:

Packing

50Kgs or 250 Kgs. HDPE drums, or as specified

UN Number

2661

Storage

Keep containers tightly closed and store in a cool dry place

Precautions

Keep away from alkalis

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Trichloroacetic Acid

Nomenclature

Trichloroacetic Acid

Formula

CCl_3COOH

CAS Number

76-03-9

Molecular Weight

163.4 gm/mole

Appearance

White Crystals

SPECIFICATIONS:

Assay (by titration)

99% w/w Min

Moisture Content

0.5% w/w Max

USES:

Manufacturing of Pharmaceutical and Cosmetic products, Organic Synthesis, Sun Protection films and surface treatment of metals

OTHER INFORMATION:

Packing

25 or 50 Kgs. HDPE open mouth drums, or as specified

UN Number

1839

Storage

Keep containers tightly closed and store in a cool dry place

Provide good ventilation

Precautions

Toxic by inhalation. Contact with skin causes severe burns. Highly Reactive with Alkali

Also available in ACS (American Chemical Standard) Grade

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Oxalyl Chloride

Nomenclature

Oxalic Dichloride, Oxalyl Dichloride

Formula

$(COCl)_2$

CAS Number

79-37-8

Molecular Weight

126.93 g/mole

Appearance

Clear colourless to light yellow liquid

SPECIFICATIONS:**Assay (by G.C)**

99.0% Min

USES:

In organic synthesis and for pharma intermediates

OTHER INFORMATION:**Packing**

50 kgs or 250 kgs net weight galvanised iron drums

UN Number

2927

Storage

Keep away from moisture

Precautions

Use gloves, goggles, nose mask while handling. Strong irritant to skin.

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Sodium Trichloroacetate

Nomenclature

Sodium Trichloroacetate

Formula

CCl_3COONa

CAS Number

650-51-1

Molecular Weight

185.4 gm/mole

Appearance

White Powder

SPECIFICATIONS:

Assay (by titration)

98% w/w Min

Moisture Content

0.5% w/w Max

USES:

Manufacture of Herbicide and as a textile auxillary

OTHER INFORMATION:

Packing

Packing 25 or 50 Kgs with LDPE double liners in HDPE wide mouth carboys, or as specified

Storage

Keep away from moisture

Precautions

Use face mask, gloves, gum boot and PVC apron during handling. Avoid dusting. May cause irritation on skin

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Trichloroacetyl Chloride

Nomenclature

Trichloroacetyl Chloride

Formula

CCl_3COCl

CAS Number

76-02-8

Molecular Weight

181.8 gm/mole

Appearance

Clear colourless to light yellow liquid

SPECIFICATIONS:

Assay (by G.C)

99% Min

Dichloroacetyl Chloride

0.2% Max

USES:

For manufacture of Chloropyriphos and Organic Synthesis

OTHER INFORMATION:

Packing

250 and 280 Kgs in HDPE drums or HDPE lined MS drums

UN Number

2442

Storage

Keep away from moisture and water

Precautions

Lachrymatory and corrosive to the skin

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textile



dye



pharma



agro

intermediates



Chloritech Industries



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