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Complejo Industrial
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SALES SPECIFICATION
ETHYL ACETATE

Quality Attributes

Test Description	Limits	Test Method
Appearance	Colorless Liquid	Visual
Ethyl Acetate, weight %	99.00, min.	GC
Water Content, weight %	0.400, max.	ASTM
Acidity, as Acetic Acid, weight %	0.0100, max.	ASTM
Color, Pt-Co	10, max.	ASTM
Specific Gravity @ 20/20 °C	0.8950 – 0.9030	ASTM
Residual Odor	No Residual	ASTM
Description: Colorless, flammable and volatile liquid, characteristic fruit odor, pleasant flavor when it is diluted. This organic compound is useful in various industrial sectors as a solvent or thinner. For the manufacture of inks for graphic arts, paints, varnishes, and paint strippers as a universal solvent. In the adhesive and glue industry. In rubber manufacturing, it is used to remove resinous substances. In the textile and leather industry to treat wool and leather and during the dyeing process. Used as a key ingredient across multiple industries including coatings, adhesives, pharmaceuticals, and food processing.		

Reference: internal documents

DOCUMENT FOR COMMERCIAL REFERENCE ONLY

This document does not constitute a warranty—express or implied—of fitness for any purpose. The purchaser is solely responsible for determining the suitability of the product for its intended use under all applicable laws and regulations.

- **Flammable:** Ethyl acetate is a flammable liquid that can cause sudden fires or explosions if exposed to ignition conditions. Vapors can travel a considerable distance to an ignition source and back, which can result in a flashback.
- **Incompatible materials:** Strong oxidizing agents.
- **Possibility of dangerous reactions:** Dangerous polymerization will not occur. It attacks rubber and some types of plastic.
- **Health hazards:** Vapors can cause irritation of the eyes, skin, nose, and throat. Systemic toxicity specifically narcotic effects. Inhalation exposure can affect Central nervous system.

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PRODUCT DATA SHEET
ETHYL ACETATE

Ethyl acetate (C_4 H_8 O_2) It is a colorless liquid that is miscible in alcohols, hydrocarbons, ketones, and ethers, among other common organic solvents, and is also slightly soluble in water. Ethyl acetate is a highly flammable and volatile liquid, with vapor denser than air. Absorption of ethyl acetate is rapid, with a high rate of pulmonary retention and it is distributed throughout the body. Ethyl acetate is a sensory irritant. This type of irritant is a substance that produces local and reversible effects on the eyes, nose, and throat through its interaction with the nerve endings of the trigeminal nerve, causing a burning sensation in the nasal cavity, itching, tingling, redness, and tearing in the eyes. The biodegradation of ethyl acetate has been studied in continuous-flow activated sludge reactors. Biodegradability over 6 days was evaluated through a final BOD analysis in comparison with TOC and COD values. The maximum treatment efficiency for ethyl acetate was a 99.9% removal; 93% by biodegradation and 7% stripped (volatilized) from the wastewater.

Chemical and Physical Properties

Property	Value
Chemical formula	C_4 H_8 O_2
Molecular weight	88.11 g/mol
CAS number	141-78-6
Appearance	Colorless liquid
Odor	Fruity odor
Melting point/freezing point	-83ºC
Boiling point	77ºC
Lower flammability limit	2.2 %
Upper flammability limit	11.5 %
Flash point	-4ºC
Auto-ignition temperature	427 ºC
Decomposition temperature	Not available
pH	5.443
Kinematic viscosity	0.44 cP @25 ºC
Solubility	Water: 10% a 25ºC
Partition coefficient n-octanol/water (log value)	Log Pow: -0.73
Vapor pressure	76 mmHg @ 20 ºC
Density	0.900 g/cm3
Relative vapor density (air =1)	3 @ 20ºC