



ELRASA - MTC™ (Methylene Chloride)

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	Colorless, volatile liquid with a chloroform-like odor
Physical Form	Liquid
Odor	Sweet, pleasant odor, like chloroform
Molecular Weight (g/mol)	84.93
Density or Specific Gravity	1.322 at 68 °F
Viscosity	0.437 mPa.s at 20 °C
Refractive Index	1.4244 at 20 °C/D
Density	1.322 at 68 °F
Chemical Properties	
Water Solubility	13,000 mg/L at 25 °C
Thermal Properties	
Melting Point	-142.1 °F
Boiling Point	103.6 °F at 760 mmHg
Autoignition Temperature	1184 °F
Flash Point	103.6 °F at 760 mmHg
Thermal Stability	Stable at room temperature

2. Processing Methods



Paint Stripper

Methylene Chloride is often used at 50-90% in paint strippers due to its excellent solvency for most paints, varnishes, and coatings. It penetrates quickly and disrupts film adhesion. Add acid scavengers or stabilizers (e.g., amines or alcohols) to prevent degradation of methylene chloride, especially when heated or stored over time.

Key Ingredients	Indicative Dosage (% w/w)
Methylene Chloride (DCM)	50%
Benzyl Alcohol	10%
Methanol	5%
Phenol (hydroxybenzene)	3%
Fatty Acid Sulfonate (surfactant)	5%
Water	27%

Paint Remover

Add 60-90% Methylene Chloride as the primary paint-softening agent due to its high solvency power for a wide range of coatings, including enamel, urethane, and epoxy-based paints. Methylene Chloride is volatile and toxic, mix it in a closed vessel with proper ventilation and temperature control (avoid heating). Use explosion-proof equipment if needed.

Key Ingredients	Indicative Dosage (% w/w)
Methylene Chloride (DCM)	80%
Acetone	4%
Pyridine	2.2%
Formic Acid	2.2%
Ceresin Wax (hard paraffin wax)	2.2%
Cellulose Acetate (thickener)	1.6%
Ethanol	1.6%
Phosphoric Acid	1.6%
Aqueous Ammonia	12%



Adhesive Remover

Blend with co-solvents like methanol, acetone, or toluene to adjust evaporation rate, increase solvency for various adhesive types, and improve workability. DCM is volatile and hazardous, incorporate it in a closed mixing system with proper ventilation and explosion-proof handling.

Key Ingredients	Indicative Dosage (% w/w)
Methylene Chloride	82%
Lower Alkyl Alcohol (e.g., methanol)	11%
Acetone (or Methyl Ethyl Ketone)	4%
Thickener (as separate base)	balance

3. Dosing by Application

Products	Authorized dosage %
Paint and varnish removers	60-90%
Adhesive formulations	10-50%

The information and data contained herein are believed to be accurate but may not be all inclusive and should only be used as a guide. The information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the product for his particular use and on condition that they assume the risk of the use thereof.

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