

ULTRASONIC CLEANING CHEMICAL

FerroCarb MTK

FerroCarb formulation packaged for MetalTek-style combined process work.

PRODUCT OVERVIEW

FerroCarb formulation packaged for MetalTek-style combined process work.

PHYSICAL & CHEMICAL PROPERTIES

Form	Clear Liquid
Colour	Clear, Colourless to Brown
pH (concentrate)	14
Solubility in water	Completely Soluble
Flammability	—

Typical values only — consult the SDS and specification sheet for lot-specific data.

COMPOSITION

Chemical entity	CAS No.	Proportion
Sodium hydroxide	1310-73-2	>-10 - <30 %
Triethanolamine	102-71-6	<10 % (w/w)
Potassium hydroxide	1310-58-3	<10 % (w/w)
Citric acid monohydrate	5949-29-1	<10 % (w/w)
Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono-C12-15-	68071-35-2	<10 % (w/w)
Ingredients determined to be non-hazardous	—	Balance to 100 %

APPLICATION & USE

Dose (v/v)
Per TDS. The trial sets your exact process values; the TDS governs.

Operating temperature
70–90 °C — the substrate sets its own ceiling; run at the lower of chemistry and substrate limits.

Application method
Heated ultrasonic immersion or soak as appropriate. Rinse thoroughly after cleaning; verify concentration on schedule per the check method.

Material compatibility	
Ferrous metals	Safe in prescribed use
Stainless steel	Safe in prescribed use
Aluminium	Do not use
Zinc	Do not use

HANDLING & STORAGE

Handling
Avoid eye and skin contact; avoid inhalation of vapour, mist or aerosols. Use with adequate ventilation. Do not eat, drink or smoke during use.

Storage
Store cool, dry and ventilated, out of direct sunlight, away from foodstuffs, ignition sources and incompatible materials. Keep containers upright and closed; check regularly for leaks.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

PPE is required when handling concentrate. Chemical-resistant gloves recommended. Ensure eyewash facilities are accessible at the workstation.

- Chemical Goggles
- Chemical-Resistant Gloves
- Protective Clothing
- Adequate Ventilation

STABILITY & REACTIVITY

Chemical stability	This material is thermally stable when stored and used as directed.
Conditions to avoid	Elevated temperatures and sources of ignition.
Incompatible materials	Oxidising agents.

Hazardous decomposition	Oxides of carbon and nitrogen, smoke and other toxic fumes.
TRANSPORT & REGULATORY	
Road & rail (AU/NZ)	Classified as Dangerous Goods (ADG / NZS5433).
UN number	1824
DG class	8
Packing group	II
GHS classification	Corrosive to Metals - Category 1; Skin Corrosion - Category 1A; Serious Eye Damage - Category 1 — Signal word: DANGER

SUPPLY & EMERGENCY	
Supplied by	Misonics — misonics.com.au · sales@misonics.com.au
Emergency	Poisons Information Centre: 131 126 (AU) / 0800 764 766 (NZ)
Safety Data Sheet	The SDS is the governing safety document — download it from the product page and hold it in your chemical register.