

ULTRASONIC CLEANING CHEMICAL

FerroCarb

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PRODUCT OVERVIEW

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PHYSICAL & CHEMICAL PROPERTIES

Form	Liquid
Colour	Light Yellow
Odour	Slight Odour
pH (concentrate)	12.7 (1 % solution) (Approximately)
Solubility in water	Soluble
Flammability	—

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

COMPOSITION

Chemical entity	CAS No.	Proportion
Potassium hydroxide	1310-58-3	>= 10 to < 30 %
Triethanolamine	102-71-6	< 10 %
Imidazolium compounds, 1-[2-(2-carboxyethoxy)ethyl]-1(or 3)-(2-	68604-71-7	< 10 %
Ingredients determined to be non-hazardous	—	Balance to 100 %

APPLICATION & USE

Dose (v/v)
1 part FerroCarb : 3 parts water (≈25%). On heavily oiled parts, knock the gross oil off first — then every litre spends its strength on the carbon you bought it for.

Operating temperature
70–80 °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	No significant corrosion in prescribed use
Stainless steel	Safe in prescribed use
PE · PVC · PTFE	Substantially unaffected
Aluminium · zinc · tin	Rapid attack — never
Glass & ceramics	Will be etched

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. gloves, apron, chemical goggles. 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	1814
DG class	8
Packing group	II
GHS classification	Acute Toxicity - Oral - Category 4; 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.