



TECHNICAL DATA SHEET

EN740 Inhibited Parts Wash — Metal Degreaser

A concentrated parts washer fluid that removes oil, grease, machining fluids and dirt from metal parts in ultrasonic baths, immersion tanks and spray cabinets — then leaves a water-soluble corrosion-inhibiting coating on mild steel.

Hazard classification	Danger — H318 (serious eye damage)	Dilution	1:24 (1 part EN740 to 24 parts water)
pH (neat)	11.4 (alkaline)	Application temperature	Ambient; up to 40°C in heated ultrasonic baths and cabinets
Appearance	Colourless liquid, slight odour	Washer types	Ultrasonic bath, immersion tank, spray cabinet, hand cleaning
Pack size	25 L container	Corrosion protection	Up to 3 months on mild steel, stored indoors (varies with conditions)
Relative density	1.03 (fully water-soluble)	Reusable solution	Yes — until heavily contaminated
Transport classification	Not hazardous for transport (ADR / IMDG)	Flammability	Non-flammable

Description

EN740 is a concentrated, inhibited surfactant parts washer fluid and metal degreaser for industrial and engineering workshops. Its surfactants, sequestrants and alkaline builders lift grease, oil, machining fluids and dirt from metal components, while a built-in corrosion inhibitor deposits a thin, water-soluble coating on mild steel to guard against oxidation and rust during storage.

Why inhibited: most degreasers clean the part but leave it open to flash rusting, especially if it does not dry immediately. EN740 cleans and protects in one step, covering the period between cleaning and use or assembly.

Key Features

- **Cleans and protects in one step** — removes oil, grease, cutting and machining fluids and dirt, then leaves an inhibitor coating on mild steel
- **Highly concentrated** — dilutes 1:24, so one 25 L container makes up to 625 L of wash solution
- **Versatile** — ultrasonic baths, immersion tanks, spray cabinets or by hand with a brush or cloth
- **Multi-metal** — mild and carbon steel, cast iron, stainless steel, aluminium and alloys, copper and brass, and mixed-metal assemblies
- **Economical** — reuse the wash solution until it becomes heavily contaminated
- **Also effective on PU residue** — the recommended final wash after cured polyurethane removal (see TDS-EN740-PU)
- Can also be used as a leak detection fluid for metal pipework and assemblies

Industries and Applications

Industry	Typical use
CNC machining and precision engineering	Removing cutting fluids and machining oils
Automotive engineering and vehicle maintenance	Degreasing components and workshop parts
Hydraulic system servicing	Cleaning and reconditioning components
General fabrication and metalworking	Degreasing metal parts and assemblies
Maintenance and repair (MRO)	Cleaning components before storage
Polyurethane processing and foam manufacturing	Final wash after PU flushing and cured PU removal

How to Use

Immersion tank or ultrasonic bath

1. Wear gloves and eye protection when handling EN740 and preparing the wash solution.
2. Dilute 1 part EN740 with 24 parts clean water in the tank or bath (mixing guide below).
3. Submerge the parts. For heavily contaminated parts, allow a longer soak before agitating.
4. Agitate manually or run the ultrasonic cycle to loosen and lift residues.
5. Remove the parts and lightly wipe away loose residue. The inhibitor coating stays on to protect mild steel.
6. Store or reuse the parts. Reuse the wash solution until it becomes heavily contaminated.

Spray cabinet washer

1. Dilute 1 part EN740 with 24 parts water and add it to the cabinet reservoir.
2. Load the parts and run the wash cycle as normal.
3. Remove the parts when the cycle finishes. Mild steel parts that need corrosion protection do not need a rinse.

Leak detection (additional use): apply EN740 to the joints and surfaces of pressurised metal pipework or assemblies. The fluid foams or weeps visibly at the point of a leak.

Mixing Guide

Total wash volume	EN740	Clean water
10 L	400 ml	9.6 L
25 L	1 L	24 L

1:24 means 1 part EN740 to 24 parts water (1 part in 25 overall). Do not dilute further: it reduces cleaning performance and corrosion inhibition.

Compatibility & Limitations — Please Read Before Use

- Intended for metal parts. Test any seals, plastics, rubber or painted surfaces before immersion. On aluminium, copper and brass, test a sample before production use.
- The coating is water-soluble. Store treated parts indoors. If parts will be painted, plated, welded or bonded, rinse with clean water first.
- The 40°C limit for heated baths and cabinets applies to EN740 only; follow each product's own limit.
- Leak detection is not a substitute for any leak test required by a standard or regulation.

Safety

EN740 is classified Danger: H318 causes serious eye damage (GHS05). Wear eye protection and protective gloves. If in eyes: rinse cautiously with water for several minutes, remove contact lenses if easy to do, continue rinsing, and call a doctor or poison centre immediately. Contains alcohol C12-14 with 7 mol EO. Ingredients (Detergent Regulation): non-ionic surfactants 5–15%; phosphonates, cationic surfactants <5%; disinfectants. Storage: original sealed container, cool, well-ventilated, away from direct sunlight. For full hazard, first-aid, storage and disposal information, always refer to the current Safety Data Sheet (SDS) before use.

Frequently Asked Questions

What is EN740 used for? Cleaning oil, grease, machining fluids and dirt from metal parts in ultrasonic baths, immersion tanks, spray cabinets or by hand, while protecting mild steel from flash rusting.

How long does the rust protection last? Up to 3 months on mild steel stored indoors; this varies with conditions. Outdoor storage is not recommended.

Do I need to rinse parts? Not mild steel parts that need corrosion protection. Rinse with clean water if they will be painted, plated, welded or bonded.

Can I use EN740 after polyurethane removal? Yes. It is the recommended final wash after EN705, EN706 GEL and EN710 (see TDS-EN740-PU).

Disclaimer

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