LKA
INDUSTRIAL SOLUTIONS

Technical Data Sheet

Grease Check Heavy Duty

Product Description

Grease Check Heavy Duty is the routine-maintenance working solution of the Grease Check system, prepared from Grease Check Concentrate diluted 1:6 with water. It handles everyday industrial grease and oil on fleets, machinery and work areas — strong enough for regular shop use, pH-neutral and safe on aluminum, paint and other sensitive surfaces.

How It Works

Grease Check cleans through three mechanisms working together: **solvency** — a coupling solvent penetrates and loosens oils, asphalt and baked-on films; **detergency** — a neutralized anionic surfactant lifts and emulsifies the loosened soil into the water phase; and **chelation** — a water conditioning agent breaks down metallic soaps and keeps performance stable in hard water. This combination delivers heavy-duty cleaning at neutral pH, without the caustic attack on aluminum, paint and other sensitive surfaces that high-alkaline degreasers rely on.

Key Features and Benefits

- pH-neutral formula: will not etch or discolor aluminum, galvanized steel, anodized coatings, paint and clear coats, polished stone, or composite surfaces the way caustic and high-alkaline degreasers do.
- Water-based, with no flash point: safe to use around welding, hot work and kitchen equipment where flammable solvents are prohibited.
- Not classified as hazardous under OSHA HazCom 2012; not regulated as a hazardous material for DOT transport.
- Effective on grease, oils, asphalt and bitumen deposits, and baked-on oxidized films.
- Built-in water conditioning: performance is maintained in hard water.
- Contains no caustics, phosphates, or nonylphenol ethoxylates (NPE-free).
- In soak tanks and parts washers, released oils separate and float on standing, allowing oil skimming and extended re-use of the working solution.

Typical Applications

- Fleet washing through foam equipment: frames, wheels, aluminum tanks.
- Machinery, forklifts and mobile equipment.
- Heavily soiled floor areas in shops and plants.
- Cooking equipment exteriors, grills and filters in commercial kitchens.
- Agricultural equipment: combines, tractors, implements.

Directions for Use

Preparation: Prepared from Grease Check Concentrate: 1 part concentrate to 6 parts water.

- Apply by low-pressure sprayer, foam applicator, mop or brush. Do not atomize into fine mist.
- Allow 1–3 minutes of contact time; agitate where needed.
- Rinse with water, or wipe clean on surfaces that cannot be rinsed.
- Bare mild steel and cast iron should be rinsed and dried promptly to avoid flash rusting.
- Test in an inconspicuous area before first use on any sensitive or coated surface.

Typical Physical Properties

Appearance	Clear, colorless to very pale yellow liquid
Odor	Mild citrus
pH	7.0 - 7.5

Specific gravity	Approx. 1.001
Flash point	None (aqueous solution)
Boiling point	Approx. 212°F (100°C)
Freezing point	Approx. 32°F (0°C) — keep from freezing
Solubility in water	Complete
VOC content	Below 0.5%
D.O.T. shipping	Not regulated

Values are typical and do not constitute a specification.

Packaging

This working solution is prepared on site from Grease Check Concentrate (standard packaging: 275-gallon IBC tote; other formats upon request).

The Grease Check System

The same concentrate also produces **Grease Check Industrial** (1:3, heaviest soils) and **Grease Check Multipurpose** (1:10, general cleaning). A Technical Data Sheet and Safety Data Sheet are available for each product in the system.

Storage and Shelf Life

Store in the original closed container at 50–90°F (10–32°C) in a dry, well-ventilated area. Keep from freezing; avoid prolonged storage above 100°F (38°C). Shelf life: 2 years from date of manufacture in the original unopened container. Working solutions are best prepared as needed and used within a reasonable period.

Health and Safety

This product is not classified as hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). Before use, read the Safety Data Sheet for Grease Check Heavy Duty (LKA-SDS-003), available from LKA Industrial Solutions Inc. Safety glasses are recommended; wear chemical resistant gloves during prolonged or repeated contact.

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