LKA
INDUSTRIAL SOLUTIONS

Technical Data Sheet

Grease Check Concentrate

Product Description

Grease Check Concentrate is a water-based, pH-neutral industrial degreaser concentrate. It removes grease, oils, asphalt deposits and baked-on films through a combination of solvency, detergency and chelation — without caustics, and without attacking the surfaces being cleaned. The concentrate is diluted with water on site to produce three working solutions (Industrial, Heavy Duty, Multipurpose), covering heavy-duty degreasing through general-purpose cleaning from a single concentrate.

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 and heavy transport: frames, fifth wheels, engines, hydraulics, aluminum fuel tanks and wheels, asphalt and road-film removal.
- Automotive and equipment shops: parts washers and soak tanks, engines and drivelines, lifts, shop floors.
- Commercial kitchens and hood cleaning contractors: exhaust hoods, ductwork, filters, fryers and cooking equipment exteriors.
- Metalworking: removal of coolants, drawing and stamping oils, way oils.
- Food plants (non-food-contact areas), warehouses, agriculture: floors, forklifts, docks, machinery exteriors.

Directions for Use

Working Solution	Dilution (concentrate : water)	Intended Use
Grease Check Industrial	1 : 3	Heaviest soils: soak tanks, engines, asphalt, baked-on films
Grease Check Heavy Duty	1 : 6	Routine degreasing: fleets, machinery, heavily soiled floors
Grease Check Multipurpose	1 : 10	General cleaning: floors, equipment, work surfaces

- Dilute with clean water to the working strength required (see table above). Always add concentrate to water.

- Apply the working solution by low-pressure sprayer, foam applicator, mop, brush, immersion or soak tank. Do not atomize into fine mist.
- Allow 1–5 minutes of contact time; agitate heavy deposits with a brush or non-abrasive pad.
- Rinse thoroughly with water, or wipe clean on surfaces that cannot be rinsed.
- Bare mild steel and cast iron should be rinsed and dried promptly, or treated with a rust preventive, to avoid flash rusting.
- Test in an inconspicuous area before first use on any sensitive or coated surface.

Typical Physical Properties

Appearance	Clear to slightly hazy, pale yellow liquid
Odor	Mild citrus
pH	7.5
Specific gravity	Approx. 1.004
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	1.6% (concentrate); below 0.5% at recommended use dilutions
Foaming	Moderate; suitable for foam application equipment
D.O.T. shipping	Not regulated

Values are typical and do not constitute a specification.

Packaging

Standard packaging: 275-gallon IBC tote. Other packaging formats are available upon request.

The Grease Check System

Grease Check Concentrate produces three working solutions: **Grease Check Industrial** (1:3) for the heaviest soils, **Grease Check Heavy Duty** (1:6) for routine degreasing, and **Grease Check Multipurpose** (1:10) for general cleaning. A Technical Data Sheet and Safety Data Sheet are available for each.

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 Concentrate (LKA-SDS-001), available from LKA Industrial Solutions Inc. Safety glasses are recommended; wear chemical resistant gloves during prolonged or repeated contact.

LKA Industrial Solutions Inc • 826 Spinnaker Drive East, Hollywood, FL 33019 US • Phone: +1 (754) 314-7507

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