JMN SPECIALTIES, INC.
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PRODUCT BULLETIN

AC-1458 EXP2

Hybrid Acid / Solvent Cleaner for Organic and Inorganic Deposits

General Description

AC-1458 EXP2 is a **clear, pale straw to light yellow liquid** with a sharp acidic odor. It is engineered as a hybrid cleaning system that delivers both descaling and hydrocarbon penetration in a single product. The acid phase attacks rust, iron oxides, and mineral scale, while the solvent and surfactant system enhances wetting, penetration, and dispersion of oily sludge and asphaltene-containing deposits. This dual-action design allows **AC-1458 EXP2** to clean complex, multi-phase foulants that are not effectively removed by conventional acid or solvent cleaners alone.

Applications

AC-1458 EXP2 is recommended for industrial cleaning applications involving rust, iron oxide, mineral scale, oily sludge, paraffinic residues, and asphaltene-containing deposits. It is particularly effective in systems where hydrocarbon foulants are bound together with corrosion products and inorganic scale. Typical applications include cleaning of tanks, piping, exchangers, vessels, and production equipment where mixed organic and inorganic deposits have accumulated. The product is well suited for circulation cleaning, soak cleaning, and corrective cleaning operations requiring a water-dilutable system.

Features and Benefits

AC-1458 EXP2 provides multi-mechanism cleaning action in a single concentrate. The acid system delivers rapid removal of rust and mineral scale, while the solvent-assisted surfactant package enhances penetration into hydrocarbon-based deposits. The product is designed for flexible field use through water dilution, allowing adjustment of cleaning strength based on fouling severity. Its hybrid chemistry reduces the need for multiple cleaning steps and improves efficiency in applications involving complex, mixed deposits. The formulation is particularly effective where asphaltene-containing residues are combined with inorganic solids and corrosion byproducts.

Directions for Use

AC-1458 EXP2 is designed to be diluted to **15–20% by volume (v/v) in water**, depending on deposit severity and composition. For light to moderate fouling, a **15% v/v** solution is typically sufficient. For heavier or more tenacious deposits, a **20% v/v** solution is recommended. Always **add product slowly into water with agitation**. Do **not** add water into the concentrate. Circulate or soak the solution as required to allow penetration, reaction, and deposit removal. Cleaning time will vary depending on temperature, deposit thickness, and system configuration. After cleaning, thoroughly flush the system with water and neutralize as required prior to disposal.

Compatibility

AC-1458 EXP2 is an acidic cleaning compound and should be evaluated for compatibility with all materials of construction prior to use. The product should be used with caution on acid-sensitive metals including aluminum, zinc, galvanized surfaces, and certain stainless steels. Compatibility testing is recommended on all substrates, coatings, seals, and elastomers before full-scale application. The concentrate should be stored and handled in compatible **poly containers and nonmetallic systems**.

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Environmental Information

Spent cleaning solutions will contain dissolved metals, hydrocarbons, mineral salts, and suspended solids removed during cleaning. Waste solution should be collected, evaluated, and disposed of in accordance with applicable federal, state, and local regulations. Neutralization may be required prior to disposal. Avoid uncontrolled release to the environment.

Regulatory Information

AC-1458 EXP2 is intended for industrial and professional use only. Users are responsible for determining product suitability and ensuring compliance with all applicable laws and regulations regarding use, storage, handling, transportation, and disposal.

Physical Properties

Appearance:	Clear, pale straw to light yellow liquid
Odor:	Sharp acidic odor
pH (Concentrate):	< 1
Solubility:	Forms stable water-dilutable cleaning solutions at recommended use levels
Recommended Use Dilution:	15–20% v/v in water
Specific Gravity:	~1.15 – 1.25 (typical)
Density:	~9.6 – 10.4 lb/gal (typical)

(Typical values; not a specification)

Availability

AC-1458 EXP2 is available in UN approved 5-gallon pails, and 55-gallon drums and bulk quantities.

Handling and Safety

For industrial and professional use only. **AC-1458 EXP2** is an acidic chemical product and should be handled using appropriate personal protective equipment including chemical-resistant gloves, eye and face protection, and protective clothing. Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or mist. Use with adequate ventilation. Always add product to water during dilution. Do not store or ship in stainless steel tanks. Handle and package using compatible poly equipment. Users are responsible for safe handling practices and compliance with all applicable regulations. Refer to the Safety Data Sheet for complete safety information.

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