JMN SPECIALTIES, INC.
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PRODUCT BULLETIN

AC 82176

Calcium Carbonate Dissolver

General Description

AC 82176 Calcium Carbonate Dissolver is a concentrated, water-based acidic cleaner formulated to dissolve calcium carbonate deposits and calcareous marine growth from subsea production equipment. The product is particularly suited for cleaning subsea production trees, wellhead components, buckets, shrouds, and other equipment exposed to seawater for extended periods. **AC 82176** is supplied as a low-viscosity liquid with a specific gravity greater than seawater. This density assists the product in displacing seawater and remaining within a customer-supplied shroud or other contained treatment area during application.

Features and Benefits

AC 82176 reacts with calcium carbonate deposits, converting the mineral buildup into soluble or readily removable reaction products. Its heavier-than-seawater profile supports controlled placement around submerged equipment, while its low viscosity permits pumping, circulation, and periodic replacement using ROV-operated equipment. **AC 82176** may be used as part of either remedial cleaning or preventive-maintenance programs when appropriate containment and material-compatibility procedures are followed.

Typical Applications

AC 82176 is recommended for removing calcium carbonate deposits and calcareous marine growth from subsea production trees, wellhead equipment, buckets, shrouds, valves, piping, structural components, and other equipment exposed to seawater. It may also be considered for controlled cleaning of industrial equipment where calcium carbonate is the principal deposit.

Directions for Use

AC 82176 should normally be used in the supplied form for subsea applications. Position the ROV injection point near the lowest practical point inside the customer-supplied containment shroud. Pump the product slowly enough to displace seawater while minimizing turbulence and premature dilution. Allow **AC 82176** to remain in contact with the deposit for as long as operating conditions permit. Carbon dioxide evolution is expected as the product reacts with calcium carbonate. Periodically replenish or replace the treatment solution as its acidic reserve is consumed. Continue treatment until the required deposit removal has been achieved, then flush the treated area with fresh water or seawater in accordance with the approved field procedure. Actual treatment time and product consumption will depend upon deposit thickness, deposit composition, temperature, seawater intrusion, containment efficiency, and local turbulence.

Compatibility

Compatibility depends upon metallurgy, coatings, elastomers, product concentration, temperature, and contact time. Confirm compatibility on representative materials before field use. Avoid unnecessary or prolonged contact with zinc, galvanized surfaces, damaged coatings, and other acid-sensitive materials. All treatment procedures should be reviewed and approved by the equipment owner before application.

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Phone (504) 341-3749 Fax (504) 341-5868 or E-mail: sales@jmnspecialties.com

Environmental and Regulatory Information

AC 82176 is formulated without added glycol, glycol ether, polymeric thickener, fluorinated chemicals, chlorinated solvent, chelant, or biocide. The organic acid component is expected to biodegrade, while the inorganic phosphate and potassium salts do not biodegrade but will dilute or neutralize into common ions in the environment.

Physical Properties

Odor	Mild acidic odor
Specific Gravity at 15.6°C	1.17-1.20, preliminary target
Density Approximately	~9.8-10.0 lb/gal
pH	1.5–2.5
Flash Point	None
Solubility	Completely water-soluble
Viscosity	Low, readily pumpable

(Typical values; not a specification)

Quality Assurance

AC 82176 is manufactured under JMN Specialties, Inc.'s ISO 9001:2015 certified Quality Management System utilizing controlled manufacturing procedures and comprehensive quality-control testing to ensure consistent product quality and batch-to-batch uniformity.

Availability

AC 82176 is available in UN-approved 5-gallon pails, 55-gallon drums, and bulk quantities.

Handling and Safety

AC 82176 is a corrosive industrial product. Avoid contact with eyes, skin, and clothing. Wear appropriate acid-resistant personal protective equipment during handling and application. Keep containers tightly closed when not in use. Store in the original compatible container in a cool, dry, well-ventilated location away from alkalis and other incompatible materials. Refer to the current Safety Data Sheet for complete information concerning transportation, handling, storage, exposure controls, spill response, and disposal.

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