

OERP - Original Equipment Rust Protection

Ready-to-use circulating treatment for newly manufactured coolers and cooling-system components

Controlling safety source: Corrected authoritative SDS_OERP, SDS UC-027, revision January 20, 2026. This TDS does not replace the current Safety Data Sheet.

PRODUCT PURPOSE

OERP is a ready-to-use circulating treatment for newly manufactured coolers and cooling-system components, designed to provide internal corrosion protection before storage, shipment, installation, and commissioning.

Typical intended applications include newly manufactured engine coolers, jacket-water sections, compressor aftercooler sections, cooling-system components, vessels, scrubbers, piping, and related fabricated equipment where temporary internal corrosion protection is required before service.

PHYSICAL / PRODUCT DATA

Physical state	Liquid	pH	10.7
Appearance	Clear liquid - SDS Section 9	Odor	Pleasant - SDS Section 9
Boiling point	100 C / 214 F	Flash point	Non-flammable
Evaporation rate	Same as water	Vapor pressure	Same as water
Water solubility	Emulsifies	NFPA	1-0-0

SDS appearance note: Section 2 lists Green Liquid / Slight Solvent, while Section 9 lists Clear Liquid / Pleasant. Section 9 is used here because it is the SDS physical-properties section.

READY-TO-USE REQUIREMENT

READY TO USE - DO NOT DILUTE.

- Use OERP as supplied in the approved preservation process.
- Use clean, compatible circulation and transfer equipment.
- Keep the container tightly closed when not in use.
- Protect from freezing. If frozen, allow the product to thaw completely before use.
- Do not combine with acids, bleach, ammonia, oxidizing agents, or unknown chemicals.

APPROVED PACKAGING / SHIPPING

Variant	Physical Package	SKU	Gross Weight	Dimensions	NMFC	Freight Class
Standard	55 Gallon Drum	OERP055	485 lb	23.5 x 23.5 x 35 in	43955	55
Standard	250 Gallon Tote	OERP250	2,180 lb	40 x 47 x 46 in	43955	55

Packaged densities are approximately 43.36 lb/ft³ for OERP055 and 43.56 lb/ft³ for OERP250, placing both packages in the current 35 to <50 lb/ft³ density band used for NMFC 43955 / Freight Class 55.

Current SDS transport classification: NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIALS for DOT, IATA, and IMDG.

NFPA 704



Health	1	Slight health hazard
Flammability	0	Non-flammable
Instability	0	Stable under normal conditions
Special	-	Not determined

GHS HAZARD COMMUNICATION

No GHS pictogram required

Classification: none listed in the corrected authoritative SDS.
Signal word: none.
Hazard statements: None.

Use normal precautions for handling liquids and drum-sized containers. Keep out of eyes and avoid prolonged skin exposure.

CONTROLLED APPLICATION FRAMEWORK

1. Confirm the cooler or cooling-system component is newly manufactured, internally clean, and suitable for OERP treatment.
2. Review the equipment manufacturer's materials, fabrication records, pressure-test procedure, preservation requirements, and purchaser specifications.
3. Connect a clean, compatible circulation loop or fill system capable of wetting the intended internal surfaces.
4. Introduce OERP as received and circulate or distribute it through the approved internal flow path so wetted surfaces receive uniform treatment.
5. Maintain OERP for the job-specific treatment interval established by the approved manufacturing or preservation procedure.
6. If a factory pressure test is performed while OERP is present, use only the pressure, hold time, inspection method, and acceptance criteria required by the applicable design code and the manufacturer's approved test procedure.
7. After treatment, drain, retain, rinse, dry, cap, seal, or otherwise preserve the component only as required by the approved equipment-specific preservation process.
8. Record the OERP lot number, equipment identification, treatment dates, circulation details, pressure-test conditions when applicable, and final disposition.

PRESSURE-TESTING LIMITATION

OERP may be present while a newly manufactured cooler or air-cooled heat-exchanger section undergoes a factory pressure test, but this TDS does not establish a universal test pressure or hold time.

The actual manufacturer's design pressure, MAWP, material, construction code, purchaser specification, and approved test procedure control the pressure-test condition. OERP compatibility and corrosion-protection validation should be performed at those actual approved conditions.

SAFE HANDLING AND REQUIRED PPE

- Handle in accordance with good industrial hygiene and safety practices.
- Keep product out of the eyes and avoid prolonged exposure to skin.
- Wear goggles and a face shield as needed to prevent eye and face contact.
- Wear suitable gloves and protective clothing.
- Ensure adequate ventilation, especially in confined areas.
- Do not breathe vapor or spray mist.
- Use respiratory protection when ventilation is inadequate under the site respiratory-protection program.
- Keep eyewash stations and safety showers accessible.
- High concentrations of product on floors may be slippery. Isolate and clean spills promptly.

FIRST AID FROM CURRENT SDS

Exposure	Current SDS direction
Eyes	Immediately flush with plenty of water. After initial flushing, remove contact lenses and continue flushing for at least 15 minutes. Immediately call a poison center or doctor/physician.
Skin	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Immediately call a poison center or doctor/physician.
Inhalation	Remove to fresh air.
Ingestion	Induce vomiting. Drink a large quantity of milk. Immediately call a poison center or doctor/physician.

Emergency contact: INFOTRAC 1-800-535-5053 North America; 1-352-323-3500 International.

STORAGE, SPILL, FIRE AND ENVIRONMENTAL HANDLING

- Keep the container tightly closed and store in a cool, dry, well-ventilated place.
- Store locked up and out of reach of children.
- Protect from freezing; if frozen, thaw completely before use.
- Store away from acids, bleach, ammonia, oxidizing agents, and other incompatible materials.
- Stop further leakage or spillage if safe to do so.
- Use personal protective equipment as needed and absorb with inert material.
- The SDS directs neutralization of residue with citric acid or another neutralizing agent for basic materials.
- OERP is non-flammable. Use extinguishing measures appropriate to local circumstances and the surrounding environment.
- The current SDS does not classify OERP as environmentally hazardous, but large or frequent spills may still have a harmful or damaging effect.
- The SDS lists the product as readily biodegradable.
- Manage drained product, rinse water, absorbent, and contamination under applicable requirements.

TRANSPORT / CUSTOMS / EXPORT PROFILE

Field	Controlled / recommended value
DOT	NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIALS
IATA	NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIALS
IMDG	NOT REGULATED AS DANGEROUS GOODS OR HAZARDOUS MATERIALS
NMFC	43955 - Chemicals, NOI
Freight Class	55 for the approved drum and tote packaged densities
HTSUS	3824.99.9397
Schedule B	3824.99.9370
ECCN	EAR99
California Proposition 65	Current SDS states this product does not contain Proposition 65 chemicals.

DOCUMENT CONTROL

Product	OERP - Original Equipment Rust Protection
Product code	OERP
Approved package / SKU 1	55 Gallon Drum - OERP055 - 485 lb gross
Approved package / SKU 2	250 Gallon Tote - OERP250 - 2,180 lb gross
Safety source	Corrected authoritative SDS_OERP SDS UC-027 revision January 20, 2026 Version 1
NFPA asset	NFPA_1-0-0.svg
GHS presentation	Text-only - no GHS pictogram required by corrected SDS
Freight	NMFC 43955 / Freight Class 55
Trade / export	HTSUS 3824.99.9397 Schedule B 3824.99.9370 ECCN EAR99

QUICK ACCESS

Scan the QR code or select the printed URL. Each printed URL is embedded as a clickable PDF hyperlink.

PRODUCT PAGE



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TDS



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