

TRANSPORTATION INDUSTRY



Penmul R490 is a mixture of heavy duty solvents, emulsifiers, penetrating agents, and carbon removers used to degrease metal parts.

Typical uses would be to degrease engine blocks, railroad airbrakes, gears, transmission assemblies, and similar metal parts where carbonaceous deposits, heavy greases, varnishes or oxidized soils are present.

FEATURES AND BENEFITS

- High flash point (190°F)
- Brightens copper and brass
- Effective at room temperature
- Safe on all metals
- Removes carbon
- Safer than flammable solvent cleaners
- Saves energy
- Versatile
- Fast cleaning

Use procedures

Normal Cleaning

Apply undiluted, or dilute with up to 50 parts water, depending on soil conditions. Let stand 5 to 10 minutes, additional brushing or agitation during standing aids in loosening stubborn grime. Rinse with water using hose with pressure nozzle where possible.

Immersion or Soak Tank Cleaning

Dilute **Penmul R490** with up to 10 parts water, depending on soil conditions. **Penmul R490** solutions may be used at room temperature or heated to 140°F or 60°C. Immerse dirty parts and soak until clean. Mechanical agitation or bubbling compressed air through the soak solution will aid in cleaning. Rinsing with water easily washes away emulsified oils and greases.

PENMUL R490

HEAVY DUTY METAL CLEANER/CARBON REMOVER

PHYSICAL PROPERTIES

Appearance	Amber liquid
Odor	Mild solvent
pH	11-12
Freezing Point	About 30°F
Boiling Point	Initial 212°F
Flash Point	160°F TCC, 185°F COC
Relative Density	0.985
Auto-Ignition Temperature	Not determined
Water Solubility	Emulsifies
Viscosity	20 to 50 CP at room temperature

INCOMPATIBILITY

Strong oxidizing agents. Strong acids.

WAREHOUSING PRECAUTIONS

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Do not store near heat, sparks, open flame, or other ignition sources. Do not store in direct sunlight. Avoid storing above 120°F (49°C).

AVAILABLE SIZES

5 gallon Pail

55 gallon Drum

FIRST AID MEASURES

If in eyes: Rinse cautiously with water for several minutes. If contact lenses present, remove them if easy to do. Continue rinsing for several minutes. Immediately call a poison center, doctor, physician or other competent medical authority for medical advice. Penetone recommends that after any eye exposure and initial treatment a physician be seen immediately.

If swallowed: Rinse mouth. Immediately call a poison center, doctor, physician or other competent medical authority. Product presents an aspiration hazard. DO NOT INDUCE VOMITING.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center, doctor, physician or other competent medical authority for medical advice.

If on skin: Take off immediately all contaminated clothing. Rinse skin with water or shower. A mild soap may be used. Wash contaminated clothing before reuse. Immediately call a poison center, doctor, physician or other competent medical authority for medical advice. If skin irritation or rash occurs: Get medical advice or attention.

PERSONAL PROTECTION Security equipment



WHMIS



IMPORTANT: Before using **PENMUL R490**, always be sure to read and follow precautions and directions for use appearing on the product container label and on the safety data sheet (S.D.S).



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