



PRODUCT SPECIFICATION REPORT

FORMULA 448™

Coil Cleaner

DESCRIPTION

An alkaline cleaner for cleaning oil, grease, and dirt from evaporating and condensing coils associated with air conditioning equipment and systems composed of synthetic detergents, water softeners, alkaline builders, corrosion inhibitors, and water-soluble solvent.

FEATURES

- Powerful cleaning action
- Concentrated
- Easy
- Saves time and labor
- Improves efficiency

BENEFITS

- Rapidly cleans hard-to-reach fins and coils
- Can be diluted for most cleaning jobs
- Spray on and rinse off
- Reduces equipment downtime and keeps contact time to a minimum
- Improves efficiency of heat transfer

APPLICATIONS

Recommended to air conditioning and cooling system service companies as well as by maintenance departments of concerns with air conditioners and cooling systems. NOTE: Protect electric motors and switch equipment which may be exposed in spraying areas with drop cloths, polyethylene sheets, or heavy paper. Provisions should be made for protection of personnel using this product by following protective measures given on the label.

SPECIFICATIONS

Physical Form Thin, water-based liquid
Color Clear, blue-green
Odor Slight, butyl
pH (Concentrate) 13.0 - 13.5
pH (Use dilution of 1:40) 12.0 - 12.5

Density/Specific Gravity 8.71 lbs./gal. - 1.044
Flash Point (TCC) None
Shelf Life 1 year minimum
D.O.T. Shipping Label None

PACKAGING

Gallons
Pails
Drums



PRODUCT LABEL

PROD. #1203
788

FORMULA 448™ Coil Cleaner

PROD. #1203
301C



ZEP MANUFACTURING COMPANY
ATLANTA, GA 30301
A division of Acuity Specialty Products Group, Inc.
CLEAN ACROSS AMERICA
AND THROUGHOUT THE WORLD™



BEFORE USING THIS PRODUCT,
PLEASE READ THIS ENTIRE LABEL.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL AND INSTITUTIONAL
USE ONLY
NOT FOR HOUSEHOLD USE OR RESALE

PRECAUCION

AL USUARIO: Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.
(TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

This product is designed exclusively for industrial and institutional use by trained, professional maintenance personnel. Label directions and precautions must be followed exactly. Zep Manufacturing Company will not be responsible for any injury, loss, or damage if product is used in any manner not in compliance with label directions, or if precautions are not observed.

HMS RATINGS

HEALTH	2	4 EXTREME 3 SERIOUS
FLAMMABILITY	0	2 MODERATE 1 SLIGHT
REACTIVITY	0	0 MINIMAL
PERSONAL PROTECTION EQUIPMENT	C	Goggles, Gloves

ZEP FORMULA 448™ COIL CLEANER

For Air Conditioning and Industrial Cooling Systems

A specific product, compounded to remove oil, grease, and dirt from evaporating and condensing coils. Effectively cleans hard-to-reach finned coils and improves efficiency of heat transfer.

DIRECTIONS:

1. ZEP FORMULA 448 may be used straight or diluted, depending upon degree of soil.
For ordinary cleaning a one-to-one dilution is effective.
2. Spray ZEP FORMULA 448 directly onto coils and allow a 2 to 5 minute contact time.
A ZEP 9C Sprayer or equivalent is ideal for applying this product.
3. Rinse thoroughly using a strong stream of plain water.
4. Permanent air filters may be cleaned by using this product before applying ZEPOMIST.

NOTE: Protect electric motors and switch equipment which may be exposed in spraying areas with drop cloths, polyethylene sheets, or heavy paper. Provisions should be made for protection of personnel using this product by following protective measures given on this label.



ANGER!

Contains sodium metasilicate.

CAUSES EYE BURNS.

HARMFUL IF INHALED OR ABSORBED
THROUGH THE SKIN.

Can cause severe eye irritation or corrosion. Inhalation of spray mists or vapors may cause respiratory tract irritation. DO NOT breathe vapors or spray mist. Repeated exposure can have cumulative effects. Exposure may aggravate existing skin or respiratory disorders. Further information on the effects of overexposure is included on the Material Safety Data Sheet. Zep advocates the good industrial hygiene practice of limiting



exposure to all chemical products as much as is practical. Use tight-fitting, splash-proof safety goggles when handling this product and at any time when it may contact the eyes, especially when wearing contact lenses. When using or handling this product wear nitrile gloves or gloves with demonstrated resistance to the ingredients in this product.

When using this product, ventilation should be equivalent to outdoors. In enclosed spaces, open windows and use exhaust fans. NEVER inhale mists or vapors. After handling, always wash hands thoroughly with soap or mild detergent and water, especially before eating, smoking, or using toilet facilities. Contaminated clothing should be removed promptly and not worn until thoroughly cleaned.

FIRST AID:

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin: Immediately flush contaminated skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops.

Inhalation: Move exposed person to fresh air. If irritation persists, get medical attention immediately.

Ingestion: If this product is swallowed, DO NOT induce vomiting. If vomiting occurs keep head below hip level to prevent aspiration (breathing) of fluid into the lungs. If affected person is conscious give plenty of water to drink. Get medical attention at once.

Disposal and/or Spill Information: Absorb product on an inert absorbent material, such as Zep-O-Zorb or Zep Super Sorbent, and deposit in a clean, sealable, D.O.T. specification container for disposal as a hazardous waste. Thoroughly clean area with detergent solution and rinse well with water.

Storage: Store tightly closed container in dry area at temperatures between 40°F (4°C) to 120°F (49°C). DO NOT store at temperatures below 32°F (0°C). Keep this product away from food and food products.

ZEP MANUFACTURING COMPANY

Your One Source for Cleaning and Maintenance Products

1-877-I BUY ZEP
(1-877-428-9937)