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April 22, 2002
PY-CEI/OEPA-0398L

Ohio Environmental Protection Agency
Division of Surface Water
P. O. Box 1049
Columbus, OH 43216-1049

Ladies and Gentlemen,

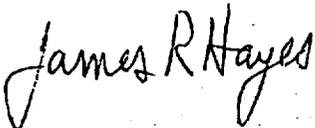
The Perry Nuclear Power Plant (PNPP) has been unsuccessful in the cleaning of air conditioning cooling coils using water without detergents as required by National Pollutant Discharge Elimination System Permit 3IB00016*GD. To prevent the costly replacement of several units, PNPP is requesting a one-time approval for the use CIP 300 Neutral pH Cleaner. The MSDS for CIP 300 is attached and is proposed to be used as follows:

- 1) PNPP will clean no more than 30 air conditioning units.
- 2) PNPP will use approximately 2 gallons of diluted product per unit.
- 3) Product will be limited to a maximum of 5% concentration for use.
- 4) Each unit will be rinsed with a minimum of 10 gallons of water.

Under the above guidelines, the product effluent to the storm drains will be a maximum of 1% CIP 300. Based on the MSDS aquatic toxicology, the use under the above guidelines should not be harmful to aquatic life.

PNPP hopes to continue the cleaning of the cooling coils as soon as possible, and appreciates your attention to this matter. If you have any questions or require additional information, please contact Mr. Leo Harte at (440) 280-5514.

Very Truly Yours,



Attachments

cc: OEPA Northeast District Office
NRC Region III
NRC Resident Inspector
NRC Project Manager
NRC Document Control Desk (Docket No. 50-440)

C.001

TO: CRAIG MILLEN
 FROM: NEIL HANSON
 STERIS CORPORATION
 SUBJECT: NEUTRAL PH CLEANER

STERIS



STERIS Corporation

North America Sales - Scientific
 5950 Halsey Road
 Mentor, OH 44060-1834 • USA
 440-354-2600 • 800-444-9C09
 www.steris.com

Neil Hanson
 Sales Representative
 Fax 517-333-2990
 E-mail neil_hanson@steris.com
 Voice mail 800-969-7575, Ext. 23007

CIP 300 is designed to be low-foaming at all use temperatures, from ambient to boiling. Typical use-concentrations for CIP 300 alone will range from 1-6 oz/gal (0.8-4.7 percent v/v), depending upon residue type, residue load, available water temperature and time allotted for cleaning.

For high melting point hydrocarbon-type residues (waxes, petrolatums, etc.), CIP 300 can be used to boost the effectiveness of other cleaning products. Its superior dispersive properties provide emulsification power to tackle these tough-to-remove residues.

A titration for use-concentration determination (Test Kit EQ1411).

See your local STERIS sales representative for methods for testing of residuals of CIP 300.

STORAGE AND DISPOSAL

Storage

This product should be stored in an area where it will not be exposed to extreme temperatures. Product may freeze. Swirls and precipitate may occur in frozen material, but readily go into solution when thawed and mixed.

Disposal

Flush with plenty of water to the sanitary sewer. Dispose of in accordance with local, state, and federal regulations.

SAFETY DATA SHEET

STERIS



1. Identification of the Substance and Company

CIP 300

Product No. 1030

MSDS No. 1030

Prepared by: M. Ebers

Date Created: December 1, 2001 Date Revised: NA

STERIS Corporation, P. O. Box 147, St. Louis, MO 63168, US

Emergency Telephone No. 1-314-535-1395 (STERIS); 1-800-424-9300 (CHEMTREC)

Telephone Number for Information: 1-800-444-9009 (Customer Service-Scientific Products)

STERIS Limited, STERIS House, Jays Close, Viables, Basingstoke, Hampshire, RG22 4AX, UK

Emergency Phone No: +44 (0) 1895 622639

Product/Technical Information Phone No: +44 (0) 1256 840400

NFPA 704 HAZARD RATING:

HEALTH: 1

FIRE: 1

REACTIVITY: 0

2. Composition/Information on Ingredients

Hazardous Component(s)	EEC No.	CAS No.	% By Wt.	Symbol	R Phrases
According to OSHA Hazard Communication Standard, 29 CFR 1910.1200, this product contains no hazardous ingredients.					
According to the Controlled Products Regulations, this product contains no hazardous ingredients.					
None of the ingredients falls into any classification required under the CHIP Regulations at the concentrations present.					

3. Hazards Identification

NA

4. First Aid Measures

Eye Contact: Flush eyes immediately with water for at least 15 minutes. Get medical attention if irritation develops.

Skin Contact: Flush skin immediately with water for at least 15 minutes. Get medical attention if irritation develops.

Inhalation: Remove patient to fresh air. If not breathing, give artificial respiration. Get medical attention.

Ingestion: Do not induce vomiting. Get medical attention. Do not give anything by mouth to an unconscious person. If conscious, drink a large quantity of milk or water.

5. Fire-Fighting Measures

Flash Point: Not flammable

Special Hazards: None known.

Extinguishing Media: Suitable for surrounding fire.

Special Fire Fighting Procedures: Use caution when fighting any fire involving chemicals. A self-contained breathing apparatus is essential.

6. Accidental Release Measures

Spills may be picked up with a mop and followed by a water rinse. Small spills may be flushed to a sanitary sewer with copious amounts of water.

7. Handling and Storage

7.1 Handling

Avoid contact with eyes, skin and clothing. Keep container closed. Wash thoroughly after handling. For industrial use only.

7.2 Storage

Store in a cool, well ventilated area.

8. Exposure Control/Personal Protection

8.1 Occupational Exposure Limits

No chemical is present which requires statutory control.

8.2 Personal Protection

Respirator Protection: Not normally required.

Eye Protection: Safety glasses or goggles.

Protective Gloves: Rubber.

Other Protective Clothing and Equipment: NA

Ventilation: Normal.

9. Physical and Chemical Properties

Solubility in Water: Complete Specific Gravity: Approximately 1.04

Appearance/Odor: Colorless to light straw, viscous liquid/mild odor.

pH: Approximately 7.8 - 8.1

10. Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur.

Incompatible Materials: Strong alkalis and oxidizers.

Conditions to Avoid: None known.

Hazardous Decomposition or Byproducts: CO₂ and CO.

11. Toxicological Information

11.1 Acute (Primary Routes of Exposure)

Eyes: May result in temporary irritation.

Skin: Prolonged or repeated skin contact may cause irritation.

Ingestion: May cause gastric upset, pain and diarrhea.

11.2 Long Term Exposure

None known.

Carcinogenicity: IARC, NTP and OSHA do not list this product or its ingredients as carcinogens.

12. Ecological Information

Aquatic Toxicity: 10% v/v solution: LC50 (fathead minnows) > 750 mg/ml

13. Disposal Considerations

Product may be flushed to a sanitary sewer with copious amounts of water, if in accordance with state, local and federal regulations. For additional guidance, contact the State Water Board or the Regional Office of the EPA.

14. Transport Information

Ground: Non-hazardous

Sea: IMDG Class: Non-hazardous

Air: ICAO/IATA Class: Non-hazardous

15. Regulatory Information

None available

16. Other Information

The information on this sheet is not a specification and does not guarantee specific properties. The information is intended to provide general knowledge as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product or where instruction or recommendations are not followed.

NA - Not Applicable

ND - No Data

STERIS[®]

CIP 300[®]
NEUTRAL pH CLEANER
TECHNICAL DATA

GENERAL DESCRIPTION

CIP 300 is a phosphate-free neutral pH liquid detergent and detergent additive. Its unique blend of surfactants allows it to be used alone or with existing cleaning products to boost their cleaning power. This low-foaming product is ideal for use in recirculating wash systems (automated CIP, parts washers, etc.). Although low-foaming, it retains the cleaning performance of high-foaming cleaners and can also be used in manual cleaning applications. As a stand alone detergent, it will have a use and discharge pH between 6 and 9 (this will be affected by the pH of the mix water). CIP 300 is free of perfumes and dyes, and is safe for use on aluminum and other soft metals.

FEATURES

Neutral pH between 6 and 9
 Low-foaming at all use temperatures
 Detergent booster

BENEFITS

No need to neutralize before discharge to sewer
 Easy rinsing; also, will not cavitate recirculation pumps
 Improves cleaning performance when added to existing products

PHYSICAL PROPERTIES

Form	Slight yellow, clear liquid
Odor	Mild
Specific gravity (77°F [25°C])	1.04, typical
pH (undiluted)	7.8, typical
Foam	Low
Phosphates	None

DIRECTIONS FOR USE

CIP 300 is designed to be low-foaming at all use temperatures, from ambient to boiling. Typical use-concentrations for CIP 300 alone will range from 1-6 oz/gal (0.8-4.7 percent v/v), depending upon residue type, residue load, available water temperature and time allotted for cleaning.

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