



PRODUCT SPECIFICATION REPORT

# FS PROCESS CLEANER (X-4490)

## DESCRIPTION

A concentrated, non-butyl, heavy-duty, alkaline cleaner and degreaser that is effective in cleaning stainless steel, floors, walls, hoods, ovens, grills, machinery, glass and many other hard surfaces.

## FEATURES

- Powerful Cleaning Action
- Versatile
- Hard Water Tolerant
- Chlorine Compatible
- Biodegradable
- USDA Authorized

## BENEFITS

- Rapidly removes dirt, grease and grime from a wide variety of surfaces.
- May be used for either manual cleaning, pressure washing, or through foam generating equipment for foam cleaning. Excellent for floor cleaning.
- Performance and rinsability are not affected by moderate water hardness. Rinses freely to prevent spotting.
- Chlorine may be added at time of use for enhanced cleaning.
- All detergents used in the manufacture of this product are biodegradable.
- Authorized as a cleaner on all surfaces and in all departments of federally-inspected meat and poultry plants.

**Note:** When used on alkali sensitive metals such as aluminum and galvanized, monitor concentrations and contact time to avoid potential damage. Also, thorough rinsing is always required.

## APPLICATIONS

Recommended for use on surfaces in supermarkets, canneries, dairies, bakeries, seafood processing plants, wineries, vegetable processing plants, bottling plants, red meat and poultry processing plants, institutional kitchens, breweries, egg processing plants, restaurants, delis and butcher shops.

## COMPANION PRODUCTS

Zep FS Formula 4089, Zep Dominion Activator, Zep Super Doug, Zep Dominion Sanitizer, Zep F.S. C.I.P. Cleaner

## SPECIFICATIONS

Physical Form . . . . .	Thin water-based liquid	Density-Specific Gravity . . . . .	8.99 lbs./gal.-1.078
Color . . . . .	Clear, green	Flash Point . . . . .	None
Odor . . . . .	Slight	Shelf life . . . . .	1 year minimum
pH (Concentrate) . . . . .	13.0-13.5	D.O.T. Shipping . . . . .	Corrosive
(Use dilution 1:128) . . . . .	11.5-12.0		

## PACKAGING

- 4 gal. case
- 8 gal. case
- 5 gal. pail
- 20 gal. drum
- 55 gal. drum



PRODUCT LABEL

PROD. 2940  
1097B



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

**FS PROCESS CLEANER™**  
(X-4490)

**BOOSTED ALKALINITY • IMPROVED RINSABILITY**  
**FORMULATED FOR HARD WATER USE**

ZEP FS Process Cleaner (X-4490) is effective in cleaning  
woodwork, chrome, stainless steel, floors, walls, hoods, ovens,  
grills, machinery, light fixtures, mirrors, glass, and many other  
surfaces. Non-flammable. ZEP FS Process Cleaner (X-4490) is the  
perfect cleaner for supermarkets, delis, bakeries, butcher shops,  
industrial and institutional kitchens, and many other food  
preparation facilities.

**DIRECTIONS:**

**FOR FOOD PROCESSING EQUIPMENT:**  
**GENERAL PURPOSE CLEANING:** Dilute 1 to 4 ounces per gallon  
of water. Apply by spraying or wiping. Scrub, if necessary. Rinse  
thoroughly with potable water.

**FOAM CLEANING:** Dilute 2 to 4 ounces per gallon of water for  
foam cleaning, depending on degree of soil. Foam solution onto  
soiled surfaces; scrub if necessary. Rinse thoroughly with  
potable water.

**PRESSURE WASHING:** Dilute 2 to 4 ounces per gallon of water  
for pressure washing, depending on degree of soil. Apply  
solution to soiled surfaces, scrub, if necessary. Rinse with  
potable water.

**MIXING WITH CHLORINE:** ZEP FS Process Cleaner (X-4490) may  
be mixed with sodium hypochlorite (bleach) at a 1:1 dilution to  
make an enhanced concentration. Mix only enough product to  
use up during cleaning shift. Further dilute mixture as above for  
manual, foam cleaning, or pressure washing.

**BIODEGRADABLE:** All detergents used in the manufacture of  
this product are biodegradable.

High concentrations of ZEP FS Process Cleaner (X-4490) can  
attack painted surfaces. On painted surfaces, test an  
inconspicuous area before use, or use very dilute solution and  
rinse well.

Note: When used on alkali sensitive metals such as aluminum  
and galvanized, monitor concentrations and contact time to  
avoid potential damage. Also, thorough rinsing is always  
required.

**DANGER!**  
**CAUSES EYE BURNS**

Can cause severe skin and eye irritation or corrosion. Inhalation  
of spray mists or vapors may cause respiratory tract irritation  
and mild central nervous system depression characterized by  
headache, dizziness, nausea or drowsiness. DO NOT breathe

vapors or spray mist. DO NOT swallow this product. Repeated  
exposure can have cumulative effects. Exposure may aggravate  
existing skin, eye, or respiratory disorders.

Further information on the effects of overexposure is included on  
the Material Safety Data Sheet, which is available upon request.  
Zep advocates limiting exposure to all chemical products. Wear  
tight-fitting safety goggles during product use, especially contact  
lens wearers. Wear natural rubber, nitrile, neoprene, or other  
resistant gloves. Use product in well-ventilated areas only; open  
windows/doors and use exhaust fans in enclosed areas. Remove  
contaminated clothing promptly and DO NOT rewear until  
thoroughly cleaned. After handling, wash hands thoroughly with  
soap and water.

**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:** As with all cleaning  
and maintenance procedures, run-off from the cleaning or  
maintenance process should be diverted to a collection vessel,  
or where permitted, to a sanitary sewer (consult local and state  
regulations) and not allowed to soak into the ground or to enter  
a storm sewer. If this product is spilled or contaminated and  
cannot be used, creating the need for disposal, 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. Rinse area well  
with water.

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