



WATER MANAGEMENT DIVISION

CHEMICAL
TECHNOLOGIES
GROUP

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GEO-GUARD® 3015

LOW TEMPERATURE
LIQUID ACIDIC CLEANER

DESCRIPTION

GEO-GUARD® 3015 is a proprietary blend of acids, detergents, and penetrants targeted at the efficient removal of a wide spectrum of soils from all metals, plastics, rubber, etc. It is readily biodegradable, and does not contain chelants which could interfere with waste treatment. GEO-GUARD® 3015 is especially effective for removing metal oxides, light rust, and mill scales. It is also excellent for descaling recirculating spray washers.

FEATURES

Non-chelated

Readily Biodegradable

High Cleaning Efficiency

BENEFITS

Simple separation of metals by
usual waste treatment methods

Environmentally sensitive

Complete and thorough cleaning

PHYSICAL PROPERTIES

Form.....	Light yellow/clear liquid
Odor.....	Mild chemical
Specific Gravity.....	1.14
pH of 1% Solution.....	2.8
Solubility.....	Instant and Complete
Foam.....	Low
Rinsing.....	Excellent
Phosphate Free.....	Yes
Chelating.....	No
Biodegradable.....	Meets OECD Procedure No. 301D Requirement for "Readily Biodegradable"

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DIRECTIONS FOR USE

GEO-GUARD® 3015 is designed to be low foaming at all temperatures. Operating temperatures range from ambient to boiling. For exceptionally heavy soils, the higher temperatures may be required.

Normal operating concentrations of GEO-GUARD® 3015 run from 1 ounce per gallon to 100% by volume and depend on temperatures, soil loads, and cleaning equipment used. Your Calgon Representative will help you establish the optimum operating criteria for your application.

GEO-GUARD® 3015 should be titrated at least once per shift and additions should be made to maintain prescribed solution strength.

Long term exposure may result in accelerated metal attack. Therefore, stainless steel or acid resistant tanks and equipment are suggested.

TITRATION

Use Test Kit C-111 and one small vial (10 cc) sample with Indicator A and Alkali 1.

<u>% by Vol.</u>	<u>Drops</u>
1	11
2	22
3	33
4	44
5	54

SERVICE

Sales

Service is one of the most important insurances for consistent quality performance of your operation. A Calgon Representative will tailor a service program for your facility that will provide effective and trouble-free operations.

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Technical

Calgon is pleased to provide a completely staffed and equipped Technical Service laboratory capable of performing needed tests and providing both telephone and on-site assistance when needed. Your Calgon Representative will provide you with more details on how this service can benefit your particular situation.

PRECAUTIONS

Information concerning human and environmental exposure may be reviewed on the Material Safety Data Sheet for the product. For additional information regarding incidents involving human and environmental exposure, call (314) 535-1810 and ask for the Regulatory and Trade Affairs Department.

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