

# Oakite® Liqui-Det

High-powered, versatile alkaline liquid for general maintenance cleaning.

## PRIMARY APPLICATION

Versatile Oakite Liqui-Det is a highly concentrated liquid designed for general maintenance cleaning either by hand or through mechanized spray or foam units. It finds application in almost every type of plant including metalworking shops, petroleum refineries, chemical processing plants, paper mills, automotive plants, textile mills and printing plants. It may be used on steel, stainless steel, aluminum, magnesium, wood, asphalt tile and many plastics.

Liqui-Det's power-packed detergency cuts through dirt, oils, light grease accumulations and other soils, undermining their grip on the surface and insuring their complete removal in the rinse. Sequestering ingredients in Liqui-Det's formula assure good cleaning action even in hard water—ensure complete rinsing, leaving no soap film residue. Surfaces are bright, clean, streak-free.

Oakite Liqui-Det is also an excellent buffing compound remover for soak tank applications, but is better when applied ultrasonically.

## CHEMICAL CHARACTERISTICS

chemical composition .....	phosphates, amine, surfactants, water misable solvent
physical form .....	as received: light yellow liquid as used: colorless solution
odor .....	perfumed
specific gravity .....	1.035
bulk density.....	1035 g/ℓ (8.6 lb/gal)
viscosity .....	7 to 10 cps, Brookfield 1, 60 rpm
flash point .....	none
foaming tendency .....	high
recommended diluent.....	water
maximum solubility .....	complete
behavior in hard water .....	sequesters
rinsability.....	excellent
biodegradable surfactants .....	yes
phosphate-free .....	no
normal working concentrations.....	1/2 to 10% by volume of water
normal operating temperatures .....	normal tap water up to 60°C (140°F)
pH of concentrate .....	9.8
pH at working concentrations .....	9.0 to 9.5

effect of working solutions on metals ..... rate of metal loss from 24-hour immersion in Oakite  
Liqui-Det, 10% by volume with water, at 49°C  
(120°F), projected for 1 year is as follows:

metal (alloy)	mm/yr	in/yr
steel (1010)	0.00	0.000
stainless steel	0.00	0.000
copper (elec. pure)	0.08	0.003
brass (30-70)	0.09	0.004
zinc (Zamak 3)	1.55	0.061
aluminum	1.30	0.051
magnesium	2.60	0.102

## APPLICATION PROCEDURE

**For General Maintenance Cleaning:** Oakite Liqui-Det can be applied by brushing, mopping or through the Oakite pressure spray units. It may also be applied through the Oakite foam dispensing equipment. Concentrations, which normally range from 1/2 to 10% by volume, are determined by the extent of soil build-up, soils to be removed and cleaning method employed. Tap water temperatures up to 60°C (140°F) are sufficient.

**For Removing Buffing Compounds:** A 10% by volume of water solution is recommended for soak tank applications. In ultrasonic units, cavitation will be improved by using slightly lower concentrations.

**Solution Control:** Concentrations are titrated Gardotest Procedure 125.  
Sample Size: 5.0 mls Factor: 3.7

## EQUIPMENT

The Chemetall Oakite wall mount, drum mount, internal or external Foamers can be used to automatically feed the premixed solution and foam of this product to the process areas. Please contact the Chemetall Oakite Process Equipment and Engineering Department for specific recommendations. The Chemetall Oakite Electroless Conductivity/Concentration Control System and Chemical Metering Pump can be used to monitor and automatically maintain the concentration of this product using conductivity. Please contact the Chemetall Oakite Process Equipment and Engineering Department for specific recommendations.

**NOTES ON USE** (See Material Safety Data Sheet)

**Safety and Handling Precautions:** Oakite Liqui-Det is a mildly alkaline material. Direct contact may cause eye irritation. Prolonged skin contact may cause irritation. It may be harmful if swallowed. Do not get in eyes. Avoid prolonged skin contact. Wash thoroughly after handling. Do not take internally.

**First Aid in Case of Contact:** For **eyes**, flush with plenty of water for at least 15 minutes. If eyes are irritated, get medical attention. For **skin**, flush with water. If swallowed, drink plenty of water. Contact a physician.

**KEEP OUT OF REACH OF CHILDREN**

## DISPOSAL

Dispose of in accordance with federal, state and local regulations.

## SHIPMENT

May be shipped by any common carrier. Freight classification is "Cleaning Compound, NOIBN, Liquid".

## STORAGE

Suitable for general indoor storage at moderate temperatures. Keep container closed when not in use. Keep from freezing.

effect of high temperature storage ..... solvent loss may occur if drum is left open  
effect of low temperature storage ..... will freeze at -6.7°C (20°F); restores on thawing  
effect of aging ..... none

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**Chemetall  
Oakite**



ISO 9001:2000  
FM 93653

Corporate Headquarters and Eastern Branch (800) 526-4473 • Central Branch (Midwest) (877) 941-3800  
Western Branch (800) 331-1197 • Oakite Canada Limited (800) 668-4318  
Chemetall Mexicana 011 52 55 5656 1490 • Chemetall do Brasil Ltda. (5511) 4066 8800  
Website: [www.oakite.com](http://www.oakite.com) • E-mail: [oakite.products@chemetall.com](mailto:oakite.products@chemetall.com) • Shop online at [www.oakitestore.com](http://www.oakitestore.com)