

EPIZYM[®]-DG

Aqueous Cleaner & Degreaser

PRODUCT DESCRIPTION

EPIZYM-DG is a water-based, concentrated heavy-duty cleaner that penetrates and softens all forms of grease, fats and oil, emulsifying them on contact with water. It contains biodegradable non-ionic surfactants, chelating agents, and water. EPIZYM-DG additionally contains biological catalyst to enzymatically break down grease.

BENEFITS OF EPIZYM-DG USAGE

- Efficiently cleans all types of animal, vegetable and petroleum greases, fats and heavy oils from hard and porous surfaces.
- Removes dried, oxidized greases and crankcase oil trapped in porous sidewalks, driveways and concrete floors.
- Works equally well in either fresh or salt water.
- Safe to use on a variety of surfaces including plastics, metals and wood.

PRODUCT DATA

	<u>Typical Value</u>
pH (concentrate)	approx. 11.5
pH (1% dilution)	approx. 8.9
Appearance	clear solution
Color	light yellow
Odor	sweet
Specific Gravity	approx. 1.05 (at 20°C)
Flash Point	>200°F

APPLICATION SUGGESTIONS: GENERAL

EPIZYM-DG is supplied as a concentrate and can be diluted with water to meet a wide range of cleaning needs. Suggested dilution rates for EPIZYM-DG are:

	<u>EPIZYM-DG</u> <u>Volume</u>	<u>Water</u> <u>Volume</u>
Heavy Degreasing	1 part	1 to 3 parts
Medium Degreasing	1 part	10 parts
Light Degreasing	1 part	20 parts
Concrete Degreasing	1 part	1 to 3 parts

The most effective dilutions for each use are best determined by user experience. In some instances, agitation, scrubbing and increased contact time may be needed to achieve superior results. When used with strong agitation, EPIZYM-DG tends to produce some foam, but it is not designed to be a high-foaming cleaner

APPLICATION SUGGESTIONS: SPECIFIC APPLICATIONS

DEGREASING

EPIZYM-DG is a highly effective penetrating and emulsifying cleaner useful in degreasing all types of equipment and surfaces where heavy grease and oil accumulate. Aqueous dilutions of EPIZYM-DG should be applied to the grease-coated surface and allowed to penetrate the oily or greasy film. Afterwards, wipe the surface clean with a cloth or soft brush and rinse with water.

CONCRETE

Removal of grease, oil and petroleum products from concrete floors, transformer pads, subsurface vaults and other concrete surfaces can be extremely difficult. EPIZYM-DG is specifically designed to provide a water-based cleaning system that penetrates concrete surfaces to remove grease and oils.

On concrete surfaces, EPIZYM-DG can be applied directly as a concentrate or diluted 1:3 with water, depending on how long the oil or grease has been in contact with the concrete and its level of penetration. It can be poured or sprayed on the contaminated area. After the EPIZYM-DG has been applied, allow it to set for approximately 10 to 30 minutes to penetrate. Brush the surface thoroughly with a stiff brush, rinse with a high-pressure water hose and dry the surface. If necessary, repeat the process.

A variety of factors affect cleaning efficiency including porosity and whether or not the concrete was previously sealed. On porous concrete where the penetration is deep, some of the stain may not come out completely. If the concrete is no longer oily to the touch or sealing tape sticks to the surface, the concrete has been adequately cleaned and may be sealed or painted.

AUTOMOTIVE

When used either concentrated or diluted, EPIZYM-DG is an excellent general-purpose cleaner that rinses streak and spot-free with water. Road film, road tar, insects, cinders and diesel smoke are easily removed. EPIZYM-DG will not harm the finish, if the EPIZYM-DG is removed soon after application.

To clean and degrease automotive parts in dip tanks, use EPIZYM-DG diluted 1:4 with water. The time required for grease and oil removal varies with the degree of cleaning required. In a soaking application, EPIZYM-DG will penetrate and lift the paint of valve covers to bare metal in 24 hours. If only oil or grease removal is required, less exposure time is required. Agitating the dip tank solution helps speed the process. Following cleaning, parts should be rinsed with water and dried.

MACHINE SHOPS

Due to its ability to penetrate and emulsify petroleum grease, EPIZYM-DG has a wide variety of uses in machine shops. It helps disperse water-soluble oils by eliminating the formation of oil curds and congealing.

The addition of EPIZYM-DG cleans sump and pressure lines, which helps to reduce maintenance costs. As an emulsifying cleaner for sumps, add EPIZYM-DG to the system and circulate for 30 minutes. While the sump is being cleaned, the same solution may be used to wash the exterior of the equipment. Through its degreasing activity, this mixture helps remove metal filings blocking pressure lines and pumps. When cleaning is finished, drain the sump and rinse with water to help remove any residual metal filings.

JETTING OPERATIONS

GREASE-X use in jetting operations will help more completely remove accumulated FOG. GREASE-X wets and penetrates the grease thereby allowing the jet water stream to more completely remove the grease. For best results,

1. Mix GREASE-X at 1% by volume (i.e. 5 gallon GREASE-X per 500 gallons jetting water).
 - Fill the jetting tank with water and then add GREASE-X, not the reverse order.
 - This 500 gallon mixture will treat 500 feet of line up to 10 inches in diameter.
2. Spray mixture at high pressure until the spray reaches the opposite manhole.
3. Turn off sprayer for ten minutes to allow GREASE-X to penetrate the grease. For exceptionally heavy grease accumulation or exceptionally hard grease allow extra time.
4. Spray back at high pressure to clear the line.

PACKGING

- 55-gallon, closed-head plastic drums. 440 pounds net weight (200 liters net volume)
- 5-gallon closed-head, plastic pails: 40 pounds net weight (18 liters net volume)
- Case 10x1 quart plastic bottles. 21 pounds net weight (10 liters net volume)

PRODUCT STORAGE

Store in original container.

ENVIRONMENTAL ACCEPTABILITY

EPIZYM-DG is non-caustic and non-polluting.

- Does not contain halogenated solvents such as petroleum, trichloroethylene or carbon tetrachloride.
- Excellent biodegradability provides answers to many problems involving RCRA mixed wastes regulations.

COMPATIBILITY

In specialized applications including degreasing and chemical etching, two or more cleaning agents may be required. EPIZYM-DG can be safely used in conjunction with the majority of other products used in cleaning and sanitation but to be sure compatibility tests should be run.

SAFETY

Users are advised to consult the Material Safety Data Sheet for information and guidance.

**For institutional use only.
Keep out of reach of children.**

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