



Epicore BioNetworks Inc.

GREASE-X[®] Municipal Cleaner & Degreaser

PRODUCT DESCRIPTION

GREASE-X 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. GREASE-X additionally contains biological catalyst to enzymatically break down grease.

GREASE PROBLEMS IN MUNICIPAL FACILITIES

Fats, oils and grease (FOG) represent one of the largest headaches for municipal collection system workers. These hydrophobic and stable FOG substances, by their very nature, stick to and stay on collection lines, lift station surfaces and line cleaning equipment. The normal flow of collection water does nothing to remove them. In many cases, FOG build up can restrict the water flow, even to the point of causing blockage and subsequent back-ups. Animal and petroleum oil and grease soiling is a problem in many different municipal situations.

BENEFITS OF 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 woods.
- Water based for ease of use and safer handling safety than solvent-based cleaners.

ACCEPTABILITY FOR THE ENVIRONMENT

- GREASE-X 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.

INGREDIENTS

Biodegradable non-ionic surfactants

PRODUCT DATA

<u>Parameter</u>	<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

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IMPORTANT NOTICE TO PURCHASER

“Epicore BioNetworks, Inc. (“Epicore”) warrants that the product conforms to its compositional description and is reasonably fit for the purpose stated on the label when used in accordance with the label instructions under normal conditions of use. There are no other express or implied warranties, whether as to merchantability, fitness for any use, or otherwise, given in respect of the product. Neither Epicore nor its agents shall be liable for any damage, loss, or injury, whether the same arises directly or consequentially, by reason of any matter whatsoever relating to the use of the product, and any buyer’s or user’s exclusive remedy in any instance shall be limited to a refund of the purchase price paid.”

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APPLICATION SUGGESTIONS:

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

Situation	GREASE-X	Water
Heavy grease	1 part	5 to 20 parts
Moderate grease	1 part	40 parts
Light grease	1 part	100 parts
Concrete cleaning	1 part	5 to 10 parts
Sewer jetting	1 part	100 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, GREASE-X tends to produce foam that will break when the agitation is stopped.
- In degreasing equipment and surfaces where heavy grease and oil accumulate GREASE-X should be applied to the 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.
- 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,
 - Mix 5 gallon GREASE-X per 500 gallons jetting water.
 - This 500 gallon mixture will treat 500 feet of line up to 10 inches in diameter.
 - Spray mixture at high pressure until the spray reaches the opposite manhole.
 - 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.
 - Spray back at high pressure to clear the line.

PRODUCT STORAGE:

- Do not store continuously at temperatures above 40°C (104°F).
- Store out of direct sunlight in a well ventilated area.
- Do not mix with any materials not recommended by Epicore, especially biocides and harsh chemicals.

SHELF LIFE:

2 years in a closed container

PACKAGING:

- 55-gallon, closed-head plastic drums. (200 liters net volume)
- 5-gallon closed-head, plastic pails (18 liters net volume)
- Cases of 10 units in presentation of 1 liter plastic bottles. (10 liters net volume)

