

# Hasten Cleanse

## ENVIRONMENTALLY SAFE HYDROCARBON SPILL RESPONSE AGENT PRODUCT PROFILE

### PRODUCTION DESCRIPTION

**Hasten Cleanse** is specifically designed as an emergency spill response agent for incidental hydrocarbon spills. **Hasten Cleanse** rapidly bonds itself to hydrocarbon particles. Once bonded, **Hasten Cleanse** quickly suppresses vaporization by raising the product's flash point. This process significantly reduces the possibility of an accidental ignition and the threat of fire or explosion. **Hasten Cleanse** has a low surface tension and does not solubilize hydrocarbons. This characteristic causes hydrocarbons to be repelled from surfaces to which they are attached and allows natural buoyancy to occur. This phenomenon lifts treated hydrocarbons from firm surfaces such as asphalt and concrete roadways to speed up the clean-up process. This performance property is beneficial for removing oil, fuel and other contaminants from motor vehicle accidents and other incidental spills. **Hasten Cleanse**, unlike similar products, is not a chemical dispersant or a strong emulsifier. Chemical dispersants and emulsifiers break down the hydrocarbon molecules into small particles that create an oil-in-water emulsion. Emulsification combines hydrocarbons with the water that creates water contamination and adds cost to the recovery of the spills. Although the emulsification process is beneficial in reducing vapor production and increasing surface area for bioremediation, water contamination is a costly disadvantage. **Hasten Cleanse** is specially formulated to provide the same performance criteria as a chemical dispersant without the water contamination problem.

**Hasten Cleanse** also possesses excellent remediation qualities that break down hydrocarbons through natural biodegradation. Laboratory and actual field usage have reported results from a two - to - twelve-fold increase in microbe numbers after only one application of **Hasten Cleanse**. In several cases, **Hasten Cleanse** reduced hydrocarbon contamination to below reportable levels in just two days.

### TYPICAL PHYSICAL PROPERTIES

Appearance:	Clear honey colored liquid
Specific Gravity @ 60° F (20° C):	1.00
pH Range:	7.7 – 7.9
Boiling Point:	>212° F
Minimum Storage Temperature:	28° F (-1° C)
Maximum Storage Temperature:	120° F (49° C)

### APPLICATION METHODS

**Hasten Cleanse** is designed for use with conventional firefighting 125 and 200 psi eductor systems and proportioning systems at the 6% ratio (6 parts **Hasten Cleanse** to 94 parts water) for vapor suppression. **Hasten Cleanse** provides excellent performance with conventional matched eductors and nozzles. No specialized equipment is required to achieve the full benefits of the product. **Hasten Cleanse** can also be utilized in garden type sprayers and pressurized extinguishers at a mixing ratio one-quart of **Hasten Cleanse** to each two gallons of water. When used for vapor suppression, the hose stream should be directed into the center portion of the spill and worked in a circular motion outward. Application should include contacting the entire area of the spill with **Hasten Cleanse** treated water. Agitation and dwell (contact) time is essential. In most cases, adequate agitation can be achieved with the hose stream. In some circumstances, the use of a stiff broom may be necessary to provide total contact with the **Hasten Cleanse** treated water and the fuel. Once the spill has been treated, if possible, cover with a foam blanket to provide for total vapor suppression. Minor spills can be addressed with the garden type sprayer or a pressurized extinguisher. Recovery methods differ by jurisdiction. In some cases, small spills may be washed from the roadway and recovery is not necessary. In other cases, recovery of the spilled hydrocarbon is necessary. The user should always confer with the appropriate regulatory authority to determine the correct recovery procedures.

The efficiency of **Hasten Cleanse** for vapor suppression should always be gauged with a vapor meter determining the LEL/UEL of the spilled hydrocarbon. The safety of operating personnel is always a paramount concern for any operation involving spilled hydrocarbons. **Hasten Cleanse** possesses excellent fire extinguishment properties. **Hasten Cleanse** can be utilized as a primary extinguishing agent for Class B hydrocarbon fires at the 6% solution setting.

## ENVIRONMENTAL DATA

The **Hasten Cleanse** formulation is comprised only of non-reportable constituents. This technological and chemical breakthrough relieves the end users of the liability of burdensome reporting procedures for storage and use. **Hasten Cleanse** does not contain any reportable quantities of hazardous materials as defined in CFR 1910.120 SARA Title 111, Sections 311-313; is not considered a Hazardous Substance under CERCLA, 40 CFR 302.4; a Hazardous Waste under RCRA, 40 CFR 261 and does not contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65. **Hasten Cleanse** is classified as a readily biodegradable product, which poses minimal impact to the environment and exhibits low toxicity to marine organisms. As with any firefighting operation, prudent containment procedures should prevent contaminated fuels and the product from entering aquifers, surface bodies of water and storm drains. With notice, **Hasten Cleanse** can be treated in conventional biological sewage treatment systems. Always confer with the appropriate regulatory authorities for specific information relating to discharge and disposal requirements. Extensive testing has demonstrated negative results for acute oral toxicity and primary skin irritation. Care should always be taken to afford the user eye protection to guard against splashing. Additional safety information is contained in the Safety Data Sheet.

## COMPATIBILITY DATA

**Hasten Cleanse** is effective in either fresh or salt water. The water quality, whether hard or soft, does not affect the foam concentrate's performance. **Hasten Cleanse** treated water is compatible with dry powder extinguishing agents, portable extinguishers, related systems and Class A & B foams.

**Hasten Cleanse** is non-corrosive and compatible to a wide range of metals, plastics, vinyls and rubbers. Pre-mixing of **Hasten Cleanse** will not harm booster tanks, pumps, piping, hoses, nozzles, fittings and gaskets. **Hasten Cleanse** will not harm painted surfaces.

## STORAGE AND INSPECTION PROCEDURES

**Hasten Cleanse** is best stored in its original container. Long term pre-mixing of **Hasten Cleanse** does not affect the product's performance. It is however recommended that the water used for long term storage in apparatus come from a municipal or similar treated water system. Long term storage of untreated water, water taken from lakes, ponds or streams, contains a high amount of organic and bacterial organisms. If left inside apparatus booster tanks for extended periods of time, these organisms can multiply causing contamination of the water. During an emergency incident, the use of this type of water is acceptable. However, prior to placing the apparatus back in service, tanks, pumps and piping should be flushed with clean water to remove the organic residue and refilled with clean clear water. **Hasten Cleanse** is intended for use at temperatures between 28° F (-1° C) and 120° F (49° C). The performance of **Hasten Cleanse** is not affected by freezing and thawing. If frozen, simple thawing and gentle agitation will render the product usable.

## CONTAINER & SHIPPING SPECIFICATIONS

**Hasten Cleanse** is supplied in 5-gallon pails and round drums. Shipments of **Hasten Cleanse** are non-regulated and do not require specialized handling, packaging or reporting requirements. Shipments in 275 and 330 gallon reusable containers and bulk orders are available upon request

### CONTAINER

5 - Gallon Pail (18.9 liters)  
55 - Gallon Drum (208.1 liters)  
Bulk or Totes

### SHIPPING WEIGHT

46 lbs. (20.9 kg)  
477 lbs. (216.81 kg)  
8.32 lbs./gal. (1.00 kg/l)

## CUBIC MEASUREMENTS

5 - Gallon Pail (18.9 liters) 1.08 cu. ft. (.0305 m<sup>3</sup>)  
55 - Gallon Drum (208.1 liters) 11.33 cu. ft. (.3208 m<sup>3</sup>)

**IMPORTANT NOTICE:** To the best of our knowledge, the information contained herein is true and accurate. The manufacturer warrants that this product conforms to the technical specifications provided that this product is maintained in its original container and stored at the temperatures indicated in the instructions for use. The manufacturer's only obligation shall be to replace such quantity of the product proven to be defective. Before using, user shall determine the suitability of the product for its intended use, and user assumes all risks and liability whatsoever in connection therewith. NEITHER SELLER NOR MANUFACTURER SHALL BE LIABLE IN EITHER TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE, DIRECT, INDIRECT, OR CONSEQUENTIAL, ARISING OUT OF THE INABILITY TO USE THIS PRODUCT.

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