



Material Safety Data Sheet

PRODUCT TRADE NAME: Apollo GreenZyme® 280

SUBSTANCE IDENTIFICATION: Mercaptan Polymer/Tertiary Amine

NIXUS International Corporation

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Physical Data

Description: Semi-clear yellow with a slight fermentation odor Evaporation rate: Not applicable

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pH: 5 to 7

Boiling point: 212° F or 100° C

Specific gravity: 1

Solubility in water: Complete

Vapor pressure: 0.1 MMHg @ 200C

Health Effects and First Aid

Inhalation: Remove to fresh air. Treat symptomatically. Contact a physician.

Skin contact: Thoroughly rinse solution off the skin with soap and water. If an itching sensation or redness occurs, contact a physician.

Eye contact: May cause minor irritation; flush eyes with water. If a burning or itching sensation develops, contact a physician.

Ingestion: Relatively harmless. If swallowed, drink one or two glasses of water. If intestinal symptoms occur, contact a physician.

Reactivity Data

Inhalation: Stable under all conditions

Incompatibilities: Stable under all conditions

Hazardous polymerization: Will not occur

Fire and Explosion Data

Primarily water-based solution; non-fire hazardous; not explosive



Safeguard Measures

Ventilation: Provide adequate ventilation, as with any soap or surfactant solution.

Eye protection: Avoid contact with eyes. Contact lenses are not recommended while working with any solutions.

Protective clothing: Avoid skin contact with solution concentrate for long periods of time.

Respiratory protection: Not applicable

Spill and Leak Information

Wash down the area of the spill with liberal amounts of water.

General Use Area

For enhanced oil recovery (EOR) and environmental cleanup uses

Storage and Disposal

Enzyme solution may be stored in most any area, but should be kept away from direct heat or in an area where temperatures can reach over 160° F for a prolonged period of time.

Shelf life: Over 3 years; use within 3 years.

In process applications, GreenZyme can be heated up to 212° F, higher if necessary under pressure (e.g., bottom sand formation of oil field).

Disposal: If necessary, dispose of any unused diluted and/or concentrated solution in non-hazardous waste facility.

Harmony System Code

3507.90.0000

Made in USA.

GreenZyme® is a registered trademark of Apollo Separation Technologies, Inc.



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