



# Material Safety Data Sheet

**PRODUCT TRADE NAME:** Apollo GreenZyme® 280

**SUBSTANCE IDENTIFICATION:** Enzymes, H<sub>2</sub>O, and Stabilizers

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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

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## 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.

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## Reactivity Data

**Inhalation:** Stable under all conditions

**Incompatibilities:** Stable under all conditions

**Hazardous polymerization:** Will not occur

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## Fire and Explosion Data

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



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## 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

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## Spill and Leak Information

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

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## General Use Area

For enhanced oil recovery (EOR) and environmental cleanup uses

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## 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.

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## Harmony System Code

3507.90.0000

Made in USA.

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



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