



FutureSol® DEM

Product Stewardship Summary

Chemical Identification

- Chemical Abstract Service (CAS) Number: 462-95-3
- Product Name: Diethoxymethane

Description of DEM

DEM is a high purity, clear liquid with an ethereal aroma. It's preparation from renewable resources and the ease of recovery provide for a "green" solvent. It's useful as an ethoxymethylating agent, a formaldehyde equivalent, and a carrier for organo-metallics. It can also be used as a reagent.

Properties of DEM

Property	Value
Form	Liquid
Color	Clear, colorless
Odor	Ether; Fruity
Melting/Boiling Point	88°C
Flashpoint	-6°C
Solubility (in water)	Moderate
Stability	Stable and non-reactive under normal use, storage, and transport
Reactivity	No dangerous reactions known under normal use

Exposure Potential of DEM

Workplace exposure:

This product contains no substances with occupational exposure limit values. In an industrial setting, containment through engineering, institutional controls, and personal protective equipment are utilized to minimize exposure. Normal safe handling procedures should be used in the workplace. Workers should follow recommendations of the Safety Data Sheet (SDS). Employees should be trained in the appropriate work processes and safety equipment to limit exposure.

Consumer exposure:

FutureFuel does not sell this product directly to consumers.

Environmental exposure:

Effect Assessment	Result
Aquatic Toxicity	Not expected to be acutely toxic
Biodegradability Persistence	Data not available for degradability
Bioaccumulation Potential	Moderately water soluble and may disperse in soil

Health Effects from exposure to DEM:

Effect Assessment	Result
Acute Toxicity	Oral: May cause discomfort if swallowed Dermal: Harmful in contact with skin
Irritation	Skin: Prolonged skin contact may cause temporary irritation Eye: Direct contact with eyes may cause temporary irritation
Sensitization	Not expected to cause skin sensitization
Mutagenicity	Not considered to be mutagenic or genotoxic
Carcinogenicity	Not considered to be carcinogenic
Toxicity after repeated exposure	Not classified
Toxicity for reproduction	Not considered to be a reproductive or developmental toxin

Disclaimer:

This document is intended to give general information about the chemical or categories of chemicals addressed. FutureFuel Chemical Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage, and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. For additional information, consult the safety data sheet or contact us at productsafety@ffcm.com.