

Safety Data Sheet



Issue Date 28-Jan-2007

Revision Date: 26-Aug-2013

Version 1

1. IDENTIFICATION

Product Identifier

Product Name KEMZYME

Other means of identification

SDS # KI-024

Recommended use of the chemical and restrictions on use

Recommended Use Liquid Detergent.

Details of the supplier of the safety data sheet

Supplier Address

Kemper Industries, Inc.
P.O. Box 1172
2197 Stanton Rd.
Daphne, AL 36526

Emergency Telephone Number

Company Phone Number Handling 251-626-3083
Technical 866-536-4225
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

Appearance Off-white liquid

Physical State Liquid

Odor Fresh Fruit Fragrance

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is not hazardous according to OSHA 29 CFR 1910.1200. Components not listed are not hazardous or are below reportable limits.

4. FIRST-AID MEASURES

First Aid Measures

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If irritation persists get medical attention.
Skin Contact	For skin contact remove contaminated clothing, flush exposed area with large amounts of water. If irritation persists, get medical attention.
Inhalation	If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
Ingestion	If ingestion of a large amount does occur, seek medical attention. Do not induce vomiting.

Most important symptoms and effects

Symptoms	Direct contact with eyes may cause temporary irritation. Prolonged skin contact may cause irritation and redness. May cause discomfort if swallowed.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

CO₂, dry chemical, foam, water fog.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Product is not flammable or combustible.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Eliminate all ignition sources (flares, flames, including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dyke area of spill to prevent spreading.
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Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Clean-Up	Small Spill: Absorb liquid on paper, vermiculite, floor absorbent or other absorbent material. Large Spill: Pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent or other absorbent material and shoveled into containers. Dispose in accordance with local, provincial/state and federal regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Do not take internally. Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Avoid contact with eyes, skin and clothing. Avoid inhalation of dusts or vapors. Wear appropriate chemical protective clothing and equipment. Always wash thoroughly after handling.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep from freezing. Keep container closed when not in use.
Incompatible Materials	Strong acids and bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Exposure Guidelines</u>	The following information is given as general guidance
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Appropriate engineering controls

Engineering Controls	Local exhaust ventilation recommended. Eye bath and safety shower should be available.
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Individual protection measures, such as personal protective equipment

Eye/Face Protection	Splash proof goggles where possible eye contamination exists.
Skin and Body Protection	Wear rubber gloves that are chemically resistant to this product. Clothing or Equipment: Wear boots, gloves, apron, etc. sufficient to prevent bodily contact.
Respiratory Protection	Where excess concentration of product is expected, a NIOSH approved air supplied respirator is advised in absence of proper environmental control.
General Hygiene Considerations	Avoid contact with eyes, skin and clothing. Avoid inhalation of contaminant. Wash thoroughly after handling. Do not eat, drink, use tobacco products, chew gum or apply cosmetics in area where there is potential for exposure to this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Fresh Fruit Fragrance
Appearance	Off-white liquid	Odor Threshold	Not determined
Color	Off-white		
Property	Values	Remarks • Method	
pH	8.0-9.0		
Melting Point/Freezing Point	0 °C / 32 °F		
Boiling Point/Boiling Range	100 °C / 212 °F		
Flash Point	Not applicable		
Evaporation Rate	Not determined		
Flammability (Solid, Gas)	Not determined		
Upper Flammability Limits	Not applicable		
Lower Flammability Limit	Not applicable		
Vapor Pressure	Not determined		
Vapor Density	Heavier than air		
Specific Gravity	1.02		
Water Solubility	Completely soluble		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Autoignition Temperature	Not determined		
Decomposition Temperature	Not determined		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

Strong acids and bases.

Hazardous Decomposition Products

Thermal decomposition may yield oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

No product animal LD50 or LC50 information is available

Eye Contact

May cause irritation to the eyes.

Skin Contact

Prolonged contact may cause irritation and redness.

Inhalation	Inhalation of mists in small amounts is not likely to cause harmful effects. Breathing large amounts may be harmful.
Ingestion	Ingestion of large amounts may produce gastrointestinal disturbances. This material can get into lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Component Information**Information on physical, chemical and toxicological effects**

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data is available on finished product.

Persistence/Degradability

This product class is readily biodegradable

Bioaccumulation

Not determined

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
<u>DOT</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG</u>	Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances IECSC

- China Inventory of Existing Chemical Substances KECL -

Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 313

Not determined

US State Regulations

U.S. State Right-to-Know Regulations

Not determined

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards Not determined	Flammability Not determined	Instability Not determined	Special Hazards Not determined
<u>HMIS</u>	Health Hazards 1	Flammability 0	Physical Hazards 0	Personal Protection Not determined

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Revision Note	New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet