

Material Safety Data Sheet

U.S. Department of Labor

Occupational Safety and Health Administration
Form Approved
OMB No. 1218-0072

Product name : UBE2R2 (Ubc3B) E2 enzyme Product number : UB209 Molecular weight : 27,167Da Brand : LifeSensors Company : LifeSensors, Inc. 271 Great Valley Parkway Malvern PA, 19355 Telephone # : 610.644.8845 FAX : 610.644.8616 Emergency phone #: 610.644.8845	
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Section I	
Manufacturer's name LifeSensors, Inc.	Emergency Telephone Number 610.644.8845
Address (Number, Street, City, State and ZIP Code) 271 Great Valley Parkway, Malvern PA, 19355	Telephone Number for Information 610.644.8845
	Date Prepared 12.09.2011

Section II—Hazardous Ingredients/Identity Information	
Hazardous Components	No known OSHA hazards

IARC: No components of this product present at level greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC
 ACGIH: No components of this product present at level greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH
 NTP: No components of this product present at level greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP

Section III—Physical/Chemical Characteristics			
Boiling Point	n/a	Specific Gravity (H ₂ O = 1)	n/a
Vapor Pressure (mm Hg)	n/a	Melting Point	n/a
Vapor Density (AIR = 1)	n/a	Evaporation Rate (Butyl Acetate = 1)	n/a
Solubility in Water:	Water soluble		
Appearance and Odor	Colorless liquid		

Section IV—Fire and Explosion Hazard Data			
Flash Point (Method Used)	n/a	Flammable Limits	LEL UEL
Extinguishing Media	n/a	n/a	n/a n/a
Special Fire Fighting Procedures	n/a		
Unusual Fire and Explosion Hazards	n/a		

(Reproduce locally)
1985

OSHA 174 Sept.

Section V—Reactivity Data

Stability	Unstable	4°C	Conditions to Avoid: Repeated freezing/thawing
	Stable	-80° liquid	
Incompatibility (<i>Materials to Avoid</i>)	No data available		
Hazardous Decomposition or Byproducts	No data available		
Hazardous Polymerization			Conditions to Avoid
	Will Not Occur		No data available

Section VI—Health Hazard Data

Health Hazards (*Acute and Chronic*) **No data available for acute toxicity**

Chronic exposure

Inhalation: **May be harmful if inhaled. May cause respiratory tract irritation**

Skin: **May be harmful if absorbed through skin. May cause skin irritation.**

Eyes: **May cause eye irritation.**

Ingestion: **May be harmful if swallowed.**

Carcinogenicity **No data available**

Signs and Symptoms of Exposure **No data available**

Medical Conditions
Generally Aggravated by Exposure **No data available**

Emergency and First Aid Procedures:

If inhaled: Move person into fresh air

Skin contact: Wash with soap and water

Eye contact: Flush eyes with water as a precaution

If swallowed: Rinse mouth with water

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled: **Wipe and rinse the surface with water.**

Waste Disposal Method: **Observe all federal, state, and local environmental regulations**

Precautions to Be Taken in Handling and Storing: **Provide appropriate exhaust ventilation at places where dust is formed. Keep container tightly closed.**

Other Precautions

Section VIII—Control Measures

Contains no substances with occupational exposure limit value

Respiratory Protection **is not required**

Protective Gloves: **Yes**

Eye Protection: **Safety glasses**

Work/Hygienic Practices: **General industrial hygiene practice**