



## MATERIAL SAFETY DATA SHEET

This form complies with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.  
IDENTITY (As Used on Label and List): **Arachidonoyl Ethanolamide**

### SECTION I - Product Identification Arachidonoyl Ethanolamide

Manufacturer Name and Address:		Telephone #s:	Dates:
Cayman Chemical Company	Cayman Chemical Comp	(800)364-9897	Date Entered: 06/27/1996
1180 E. Ellsworth Rd.			Last Revision: 01/26/2001
Ann Arbor, MI 48108	Cayman Chemical Comp	(734)971-3335	MSDS Printed: 01/26/2001

Synonyms:  
N-(2-hydroxyethyl)-5Z,8Z,11Z,14Z-eicosatetraenamide;  
Anandamide;  
AEA  
Chemical Family: Lipid  
Hazard Label: Health: 2  
Molecular Formula: C22H37NO2 Flammability: 2 , Molecular Weight: 347.50 Reactivity: 0

### SECTION II - Hazardous Ingredients/Identity Information Arachidonoyl Ethanolamide

Hazardous Components (Specific Chemical Identity/Common Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits	Percentage
Arachidonoyl Ethanolamide	94421-68-8				100.0

### SECTION III - Physical/Chemical Characteristics Arachidonoyl Ethanolamide

Boiling Point: NE or NA Specific Gravity (Water = 1): Melting Point: NE or NA Vapor Pressure (mm Hg): . . . NE or NA Vapor Density (Air=1): . . . NE or NA Physical States: [ ] Gas Evaporation Rate: . . . . . NE or NA [ X ] Liquid (Butyl Acetate=1) [ ] Solid Solubility In Water: . . . . . \* <100 ug/ml at 25.0 C \*PBS pH 7.2, sol. in EtOH, DMSO, & DMF Percent Volatile: . . . . . NE or NA Appearance and Odor:  
A clear, yellow solution

### SECTION IV - Fire and Explosion Hazard Data Arachidonoyl Ethanolamide

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Flash Pt: NE or NA Method Used: See note below  
Explosive Limits: LEL: NE UEL: NE  
Autoignition Pt: NE or NA Extinguishing Media:  
Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.  
Special Fire Fighting Procedures:  
Note: Flammable as diluted in ethanol.  
Unusual Fire and Explosion Hazards:

### SECTION V - Reactivity Data Arachidonoyl Ethanolamide

Stability: Unstable [ ] Stable [ X ]  
Conditions To Avoid - Instability:  
  
Incompatibility - Materials To Avoid:  
  
Hazardous Decomposition Or Byproducts:  
  
Hazardous Polymerization: May occur [ ] Will not occur [ X ]  
Conditions To Avoid - Hazardous Polymerization:

### SECTION VI - Health Hazard Data Arachidonoyl Ethanolamide

Route(s) of Entry: Inhalation? Yes , Skin? Yes , Eyes? Yes , Ingestion? Yes , Other:  
Health Hazards (Acute and Chronic):  
Contact may cause skin or eye irritation.  
The toxicological properties of this compound have not been fully evaluated.  
Carcinogenicity: NTP? No , IARC Monographs? No , OSHA Regulated? No  
Carcinogenicity/Other Information:  
  
Recommended Exposure Limits: LD 50/LC 50:  
Signs and Symptoms Of Exposure:  
Irritating to the skin, eyes, nose, throat, and respiratory tract.  
Medical Conditions Generally Aggravated By Exposure:  
  
Emergency and First Aid Procedures:  
If inhaled remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.  
If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention.  
In case of contact with eyes, hold eyelids apart and flush eyes with plenty of water. After initial flushings, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.  
In case of skin contact, immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

### SECTION VII - Precautions for Safe Handling and Use Arachidonoyl Ethanolamide

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Steps To Be Taken In Case Material Is Released Or Spilled:  
Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.  
After removal, ventilate contaminated area and flush thoroughly with water.  
Waste Disposal Method:  
Dispose in accordance with local, state and federal regulations.  
Hazard Label Information:  
Avoid contact with skin and eyes. Do not reuse this container.  
Use with adequate ventilation. Wash thoroughly after handling.  
Precautions To Be Taken in Handling and Storing:  
Avoid contact with eyes, skin, and clothing.  
Do not reuse this container.  
Store at correct temperature.  
Use with adequate ventilation.  
Wash thoroughly after handling.  
Other Precautions:

### SECTION VIII- Control Measures Arachidonoyl Ethanolamide

Protective Equipment Summary - Hazard Label Information  
Acid resistant gloves Lab coat Latex disposable gloves  
Safety glasses Safety shower in work area Vent Hood  
Respiratory Equipment (Specify Type):  
  
Ventilation:  
Good general ventilation should be sufficient to control airborne levels.  
Eye Protection:  
Safety glasses  
Protective Gloves:  
Latex disposable gloves  
Other Protective Clothing:  
Lab coat  
Work/Hygienic/Maintenance Practices:  
Do not take internally.  
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.  
Wash thoroughly after handling.

### SECTION IX - Additional Comments Arachidonoyl Ethanolamide

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