



MATERIAL SAFETY DATA SHEET

This form complies with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

IDENTITY (As Used on Label and List): **S-2 Methanandamide**

SECTION I - Product Identification S-2 Methanandamide

Manufacturer Name and Address:	Telephone #s:	Dates:
Cayman Chemical Company	(800)364-9897	Date Entered: 11/29/2000
1180 E. Ellsworth Rd.		Last Revision: 11/29/2000
Ann Arbor, MI. 48108	(734)971-3335	MSDS Printed: 11/29/2000

Synonyms:

N-(2S-hydroxypropyl)-5Z,8Z,11Z,14Z-eicosatetraenamide; (S)-(+)-Arachidonyl-2'-hydroxy-1'-propylamide

Chemical Family: Lipid Neurotransmitters

Hazard Label: Health: 2

Molecular Formula: C₂₃H₃₉NO₂ Flammability: 2 , Molecular Weight: 361.60 Reactivity: 0

SECTION II - Hazardous Ingredients/Identity Information S-2 Methanandamide

Hazardous Components (Specific Chemical Identity/Common Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits	Percentage
S-2 Methanandamide	NA				100.0

SECTION III - Physical/Chemical Characteristics S-2 Methanandamide

Boiling Point: NE or NA Specific Gravity (Water = 1): NE or NA Melting Point: 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 DMSO & DMF Percent Volatile: NE or NA Appearance and Odor:

A clear, colorless solution

SECTION IV - Fire and Explosion Hazard Data S-2 Methanandamide

Flash Pt: NE or NA Method Used: See note below

Explosive Limits: LEL: UEL:

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 S-2 Methanandamide

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability:

Incompatibility - Materials To Avoid:

acid anhydrides

acid chlorides

acids

alkali metals

ammonia

moisture

oxidizing materials

peroxides

Hazardous Decomposition Or Byproducts:

carbon dioxide

carbon monoxide

nitrogen oxides

Hazardous Polymerization: May occur [] Will not occur [X]

Conditions To Avoid - Hazardous Polymerization:

SECTION VI - Health Hazard Data S-2 Methanandamide

Route(s) of Entry: Inhalation? Yes , Skin? Yes , Eyes? Yes , Ingestion? Yes , Other:

Health Hazards (Acute and Chronic):

Acute effects of overexposure may include headache, nausea, and vomiting.

Can cause severe central nervous system depression.

Contact may cause skin or eye irritation.

Material is irritating to the mucous membranes and upper respiratory tract.

May have a narcotic effect.

Target organ(s): nerves, liver, and damage to the heart.

Carcinogenicity: NTP? No , IARC Monographs? No , OSHA Regulated? No

Carcinogenicity/Other Information:

Recommended Exposure Limits: LD 50/LC 50:

Signs and Symptoms Of Exposure:

Irritation, tightness of chest, headache, nausea, loss of strength, increased difficulty in breathing, irregular respiration.

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.
