

SIGMA-ALDRICH			
MATERIAL SAFETY DATA SHEET			
		Date Printed: 05/27/2009 Date Updated: 02/04/2006 Version 1.1	
Section 1 - Product and Company Information			
Product Name	LIPOXIN A4		
Product Number	L0521		
Brand	SIGMA		
Company Address	Sigma-Aldrich Canada, Ltd 2149 Winston Park Drive Oakville ON L6H 6J8 CA		
Technical Phone:	9058299500		
Fax:	9058299292		
Emergency Phone:	800-424-9300		
Section 2 - Composition/Information on Ingredient			
Substance Name	CAS #	SARA 313	
LIPOXIN A4 IN ETHANOL	None	No	
Ingredient Name	CAS #	Percent	SARA 313
ETHYL ALCOHOL, NON-DENATURED, 200 PROOF	64-17-5	>= 99	No
LIPOXIN A4	89663-86-5	0.3	No
Section 3 - Hazards Identification			
EMERGENCY OVERVIEW			
Flammable (USA) Highly Flammable (EU). Irritant. Highly flammable. Irritating to eyes, respiratory system and skin. Target organ(s): Nerves. Liver.			
HMIS RATING			
HEALTH: 2*			
FLAMMABILITY: 3			
REACTIVITY: 0			
NFPA RATING			
HEALTH: 2			
FLAMMABILITY: 3			
REACTIVITY: 0			
*additional chronic hazards present.			
For additional information on toxicity, please refer to Section 11.			
Section 4 - First Aid Measures			
ORAL EXPOSURE			
If swallowed, wash out mouth with water provided person is conscious. Call a physician.			
INHALATION EXPOSURE			
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.			
DERMAL EXPOSURE			
In case of contact, immediately wash skin with soap and copious amounts of water.			
EYE EXPOSURE			
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.			
Section 5 - Fire Fighting Measures			
FLAMMABLE HAZARDS			
Flammable Hazards: Yes			
FLASH POINT			
N/A			
AUTOIGNITION TEMP			
N/A			
FLAMMABILITY			
N/A			
EXTINGUISHING MEDIA			
Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.			
FIREFIGHTING			
Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Flammable liquid. Vapor may travel considerable distance to source of ignition and flash back. Specific Method(s) of Fire Fighting: Use water spray to cool fire-exposed containers.			
Section 6 - Accidental Release Measures			
PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL			
Evacuate area. Shut off all sources of ignition.			
PROCEDURE(S) OF PERSONAL PRECAUTION(S)			
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.			
METHODS FOR CLEANING UP			
Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.			
Section 7 - Handling and Storage			
HANDLING			
User Exposure: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.			
STORAGE			
Suitable: Keep tightly closed. Keep away from heat, sparks, and open flame. Store at -20°C			
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Section 8 - Exposure Controls / PPE			
ENGINEERING CONTROLS			
Use only in a chemical fume hood. Safety shower and eye bath.			
PERSONAL PROTECTIVE EQUIPMENT			
Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Hand: Compatible chemical-resistant gloves. Eye: Chemical safety goggles. Skin-Specific: Chemical resistant apron.			
GENERAL HYGIENE MEASURES			
Wash thoroughly after handling.			
EXPOSURE LIMITS			
Country	Source	Type	Value
Poland		NDS	1900 MG/M3
Poland		NDSch	-
Poland		NDSP	-
Section 9 - Physical/Chemical Properties			
Appearance	Physical State: Liquid		
Property	Value	At Temperature or Pressure	
pH	N/A		
BP/BP Range	N/A		
MP/MP Range	N/A		
Freezing Point	N/A		
Vapor Pressure	N/A		
Vapor Density	N/A		
Saturated Vapor Conc.	N/A		
Bulk Density	N/A		
Odor Threshold	N/A		
Volatile%	N/A		
VOC Content	N/A		
Water Content	N/A		
Solvent Content	N/A		
Evaporation Rate	N/A		
Viscosity	N/A		
Surface Tension	N/A		
Partition Coefficient	N/A		
Decomposition Temp.	N/A		
Flash Point	N/A		
Explosion Limits	N/A		
Flammability	N/A		
Autoignition Temp	N/A		
Refractive Index	N/A		
Optical Rotation	N/A		
Miscellaneous Data	N/A		
Solubility	N/A		
N/A - not available			
Section 10 - Stability and Reactivity			
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STABILITY			
Stable: Stable. Conditions to Avoid: Moisture. Materials to Avoid: Acids, Acid chlorides, Acid anhydrides, Alkali metals, Ammonia, Oxidizing agents, Peroxides.			
HAZARDOUS DECOMPOSITION PRODUCTS			
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.			
HAZARDOUS POLYMERIZATION			
Hazardous Polymerization: Will not occur			
Section 11 - Toxicological Information			
ROUTE OF EXPOSURE			
Skin Contact: May cause skin irritation. Skin Absorption: May be harmful if absorbed through the skin. Eye Contact: May cause eye irritation. Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. Ingestion: May be harmful if swallowed.			
TARGET ORGAN(S) OR SYSTEM(S)			
Nerves. Liver. Heart.			
SIGNS AND SYMPTOMS OF EXPOSURE			
Can cause CNS depression. Exposure can cause: Narcotic effect. Nausea, headache, and vomiting. Damage to the heart. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.			
CHRONIC EXPOSURE - CARCINOGEN			
Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.			
Section 12 - Ecological Information			
No data available.			
Section 13 - Disposal Considerations			
APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION			
Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.			
Section 14 - Transport Information			
DOT			
Proper Shipping Name: Ethanol [or] Ethyl alcohol [or] Ethanol solutions [or] Ethyl alcohol solutions UN#: 1170 Class: 3 Packing Group: Packing Group II Hazard Label: Flammable liquid PIH: Not PIH			
IATA			
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Proper Shipping Name: Ethanol solution IATA UN Number: 1170 Hazard Class: 3 Packing Group: II			
Section 15 - Regulatory Information			
EU ADDITIONAL CLASSIFICATION			
Symbol of Danger: F Indication of Danger: Highly Flammable. R: 11 Risk Statements: Highly flammable. S: 7-16 Safety Statements: Keep container tightly closed. Keep away from sources of ignition - no smoking.			
US CLASSIFICATION AND LABEL TEXT			
Indication of Danger: Flammable (USA) Highly Flammable (EU). Irritant. Risk Statements: Highly flammable. Irritating to eyes, respiratory system and skin. Safety Statements: Keep container tightly closed. Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. US Statements: Target organ(s): Nerves. Liver.			
UNITED STATES REGULATORY INFORMATION			
SARA LISTED: No			
CANADA REGULATORY INFORMATION			
WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR. DSL: No NDSL: No			
Section 16 - Other Information			
DISCLAIMER			
For R&D use only. Not for drug, household or other uses.			
WARRANTY			
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2009 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.			
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