

# SAFETY DATA SHEET

Creation Date 21-May-2012 Revision Date 30-Jan-2015 **Revision Number 1** 

1. Identification

Lithium methoxide, 10% solution in methanol **Product Name** 

Cat No.: AC336750000; AC336750250; AC336751000; AC336758000

No information available **Synonyms** 

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company **Entity / Business Name Emergency Telephone Number** 

> For information US call: 001-800-ACROS-01 **Acros Organics**

One Reagent Lane / Europe call: +32 14 57 52 11

Fair Lawn, NJ 07410 Emergency Number **US:**001-201-796-7100 /

Europe: +32 14 57 52 99

CHEMTREC Tel. No.US:001-800-424-9300 /

Europe:001-703-527-3887

# 2. Hazard(s) identification

## Classification

Fisher Scientific

One Reagent Lane

Fair Lawn, NJ 07410

Tel: (201) 796-7100

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids Category 2 Self-heating substances and mixtures Category 1 Acute oral toxicity Category 3 Acute dermal toxicity Category 3 Acute Inhalation Toxicity - Vapors Category 3 Skin Corrosion/irritation Category 1 B Serious Eye Damage/Eye Irritation Category 1 Specific target organ toxicity (single exposure) Category 1 Target Organs - Optic nerve, Central nervous system (CNS).

Specific target organ toxicity - (repeated exposure) Category 1

Target Organs - Skin, Central nervous system (CNS), Liver, Kidney.

# Label Elements

## Signal Word

Danger

## **Hazard Statements**

Highly flammable liquid and vapor Self-heating; may catch fire Toxic if swallowed Toxic in contact with skin Causes severe skin burns and eye damage Toxic if inhaled

May cause drowsiness or dizziness

#### Causes damage to organs

Causes damage to organs through prolonged or repeated exposure



## **Precautionary Statements**

### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool. Protect from sunlight

Keep cool

### Response

Immediately call a POISON CENTER or doctor/physician

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician

## Skin

Immediately call a POISON CENTER or doctor/physician

Take off contaminated clothing and wash before reuse

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

#### Eyes

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

# Ingestion

Rinse mouth

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

#### **Fire**

In case of fire: Use CO2, dry chemical, or foam for extinction

### Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Maintain air gap between stacks/pallets

Store bulk masses greater than .? kg/ .? lbs at temperatures not exceeding .? °C/ .? °F

Store away from other materials

### Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

## Other hazards

Poison, may be fatal or cause blindness if swallowed. Vapor harmful. Cannot be made non-poisonous. WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

## 3. Composition / information on ingredients

Component	CAS-No	Weight %
Methyl alcohol	67-56-1	90
Methanol, lithium salt	865-34-9	10

## 4. First-aid measures

Eye Contact Immediate medical attention is required. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes.

**Skin Contact** Immediate medical attention is required. Wash off immediately with plenty of water for at

least 15 minutes.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Immediate medical attention is

required. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the

substance; induce artificial respiration with a respiratory medical device.

**Ingestion** Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms/effects Breathing difficulties. Causes burns by all exposure routes. . Inhalation of high vapor

concentrations may cause symptoms like headache, dizziness, tiredness, nausea and

vomiting: Product is a corrosive material. Use of gastric lavage or emesis is

contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of

perforation

Notes to Physician Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media Dry powder.

Unsuitable Extinguishing Media Water, Foam, Carbon dioxide (CO2)

Flash Point 11 °C / 51.8 °F Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

### **Specific Hazards Arising from the Chemical**

Flammable. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Vapors may form explosive mixtures with air.

## **Hazardous Combustion Products**

Carbon monoxide (CO) Carbon dioxide (CO2)

# **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.

<u>NFPA</u>

HealthFlammabilityInstabilityPhysical hazards332W

## 6. Accidental release measures

Personal Precautions Remove all sources of ignition. Take precautionary measures against static discharges.

Use personal protective equipment, Ensure adequate ventilation, Avoid contact with skin. eves and clothing. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Do not

breathe dust/fume/gas/mist/vapors/spray.

**Environmental Precautions** 

See Section 12 for additional ecological information. Should not be released into the

environment.

Methods for Containment and Clean Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Do not expose spill to water.

## 7. Handling and storage

Handling

Wear personal protective equipment. Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Use explosion-proof equipment. Use only non-sparking tools. Do not allow contact with water. Do not allow contact with water because of violent reaction. Keep under nitrogen. Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

**Storage** 

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat and sources of ignition. Protect from moisture. Never allow product to get in contact with water during storage. Flammables area. Keep under nitrogen.

## 8. Exposure controls / personal protection

## **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl alcohol	TWA: 200 ppm	(Vacated) TWA: 200 ppm	IDLH: 6000 ppm
	STEL: 250 ppm	(Vacated) TWA: 260 mg/m <sup>3</sup>	TWA: 200 ppm
	Skin	(Vacated) STEL: 250 ppm	TWA: 260 mg/m <sup>3</sup>
		(Vacated) STEL: 325 mg/m <sup>3</sup>	STEL: 250 ppm
		Skin	STEL: 325 mg/m <sup>3</sup>
		TWA: 200 ppm	
		TWA: 260 mg/m <sup>3</sup>	

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Methyl alcohol	TWA: 200 ppm TWA: 262 mg/m³ STEL: 250 ppm STEL: 328 mg/m³ Skin	TWA: 200 ppm TWA: 260 mg/m³ STEL: 250 ppm STEL: 310 mg/m³	TWA: 200 ppm STEL: 250 ppm Skin

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations **Engineering Measures** 

and safety showers are close to the workstation location. Ensure adequate ventilation,

especially in confined areas.

**Personal Protective Equipment** 

Wear appropriate protective eyeglasses or chemical safety goggles as described by **Eye/face Protection** 

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Wear appropriate protective gloves and clothing to prevent skin exposure. Skin and body protection

**Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

> EN 149, Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures** 

## 9. Physical and chemical properties

Liquid **Physical State Appearance** Colorless

Odor No information available **Odor Threshold** No information available нα No information available

Melting Point/Range No data available Boiling Point/Range 64.6 °C / 148.3 °F 11 °C / 51.8 °F Flash Point **Evaporation Rate** No information available Flammability (solid,gas) Not applicable

Flammability or explosive limits

Upper No data available No data available Lower **Vapor Pressure** No information available Vapor Density No information available

**Relative Density** 0.865

Solubility No information available Partition coefficient; n-octanol/water No data available

**Autoignition Temperature** No information available **Decomposition Temperature** No information available **Viscosity** No information available

**Molecular Formula** CH3LiO **Molecular Weight** 37.97

# 10. Stability and reactivity

**Reactive Hazard** Yes

Stability Moisture sensitive. Air sensitive.

**Conditions to Avoid** Keep away from open flames, hot surfaces and sources of ignition. Excess heat. Exposure

to air. Incompatible products. Exposure to moisture.

**Incompatible Materials** Acids, Water, Halogens, Acid anhydrides, Acid chlorides, Metals, Reducing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)

**Hazardous Polymerization** Hazardous polymerization does not occur.

Water reactive. **Hazardous Reactions** 

# 11. Toxicological information

**Acute Toxicity** 

**Product Information** 

Oral LD50 Category 3. ATE = 50 - 300 mg/kg. **Dermal LD50** Category 3. ATE = 200 - 1000 mg/kg.

Vapor LC50 Based on ATE data, the classification criteria are not met. ATE > 20 mg/l. Category 3. ATE

= 2 - 10 mg/l.

**Component Information** 

Component LD50 Oral		LD50 Dermal	LC50 Inhalation
Methyl alcohol	6200 mg/kg (Rat)	15800 mg/kg ( Rabbit )	64000 ppm ( Rat ) 4 h

83.2 mg/L ( Rat ) 4 h

**Toxicologically Synergistic** 

**Products** 

No information available

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

Irritation Causes burns by all exposure routes

**Sensitization** No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Methyl alcohol	67-56-1	Not listed				
Methanol, lithium salt	865-34-9	Not listed				

Mutagenic Effects No information available

**Reproductive Effects**No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure Optic nerve Central nervous system (CNS)
STOT - repeated exposure Skin Central nervous system (CNS) Liver Kidney

Aspiration hazard No information available

Symptoms / effects,both acute and Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

delayed

tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and

danger of perforation

No information available

**Endocrine Disruptor Information** 

no information available

Other Adverse Effects The toxicological properties have not been fully investigated.

# 12. Ecological information

**Ecotoxicity** 

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Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Methyl alcohol	Not listed	Pimephales promelas: LC50	EC50 = 39000 mg/L 25 min	EC50 > 10000 mg/L 24h
		> 10000 mg/L 96h	EC50 = 40000 mg/L 15 min	
			EC50 = 43000 mg/L 5 min	

Persistence and Degradability

Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its volatility.

Component	log Pow
Methyl alcohol	-0.74

# 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	Component	RCRA - U Series Wastes	RCRA - P Series Wastes
-	Methyl alcohol - 67-56-1	U154	-

# 14. Transport information

DOT

UN-No UN3286

Proper Shipping Name FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.

Proper technical name Methyl alcohol, Methanol, lithium salt

Hazard Class 3
Subsidiary Hazard Class 6.1 8
Packing Group ||

**TDG** 

UN-No UN3286

Proper Shipping Name FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.

Hazard Class 3
Subsidiary Hazard Class 6.1 8
Packing Group ||

<u>IATA</u>

UN-No UN3286

Proper Shipping Name FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.

Hazard Class 3
Subsidiary Hazard Class 6.1 8
Packing Group ||

IMDG/IMO

UN-No UN3286

Proper Shipping Name FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.

Hazard Class 3
Subsidiary Hazard Class 6.1 8
Packing Group ||

# 15. Regulatory information

#### International Inventories

Component	TSCA	DSL	NDSL	<b>EINECS</b>	ELINCS	NLP	PICCS	<b>ENCS</b>	AICS	IECSC	KECL
Methyl alcohol	Х	Х	-	200-659-6	-		Х	Χ	Χ	Х	Χ
Methanol, lithium salt	Х	1	Χ	212-737-7	-		Χ	-	Χ	1	1

### Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

### U.S. Federal Regulations

TSCA 12(b) Not applicable

#### **SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Methyl alcohol	67-56-1	90	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes Chronic Health Hazard Yes

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Fire Hazard Yes
Sudden Release of Pressure Hazard No
Reactive Hazard Yes

Clean Water Act Not applicable

### Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Methyl alcohol	X		-

**OSHA** Occupational Safety and Health Administration Not applicable

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Methyl alcohol	5000 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Methyl alcohol	67-56-1	Developmental	-	Developmental

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Methyl alcohol	X	Х	Х	X	X

### **U.S. Department of Transportation**

Reportable Quantity (RQ): NDOT Marine Pollutant NDOT Severe Marine Pollutant N

# U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

## Other International Regulations

Mexico - Grade No information available

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class B2 Flammable liquid

F Dangerously reactive material D1A Very toxic materials E Corrosive material D2A Very toxic materials



## 16. Other information

Prepared By Regulatory Affairs

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**Revision Summary** This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS)

#### **Disclaimer**

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of SDS**