

Safety Data Sheet

OSHA format Revision Number 0

Issuing Date May-07-2015 **Revision Date** Mar-14-2018

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name ALK 1 Indicator

Other means of identification

Product Code(s) P-7028 UN-No1170

Recommended use of the chemical and restrictions on use

Recommended Use Use as a laboratory reagent. Industrial (not for food or food contact use). Laboratory

chemicals.

Details of the supplier of the safety data sheet

Manufacturer Address LaMotte Company, Inc. 802 Washington Avenue

P.O. Box 329

Chestertown, MD 21620 USA

T 410-778-3100 F 410-778-9748

Emergency telephone numbers

(CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION		
Serious eye damage/eye irritation	Category 2A	
Germ cell mutagenicity	Category 1B	
Carcinogenicity	Category 1A	
Reproductive toxicity	Category 1A	
Specific target organ toxicity (single exposure)	Category 2	
Specific target organ toxicity (repeated exposure)	Category 1	
Physical hazards Flammable Liquids.	Category 2	

EMERGENCY OVERVIEW

DANGER

Hazard statements

Causes serious eye irritation. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. May cause damage to organs. Causes damage to organs through prolonged or repeated exposure. . Highly flammable liquid and vapor.



Appearance Dark Blue green liquid

Physical state liquid

Odor Alcohol

Precautionary Statements - Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Wear eye/face protection. Do not breathe dust /fume /gas /mist /vapors /spray. Do not eat, drink or smoke when using this product. 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 out of the reach of children.

Response: IF exposed or concerned: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED:. Drink 1 or 2 glasses of water. Call a physician immediately. In case of fire: Use CO2, dry chemical, or foam for extinction

Storage:

Store locked up. Store in a well-ventilated place. Keep cool.

Disposal:

Dispose of contents/container to an approved waste disposal plant.

Other Hazards

May be harmful if swallowed. May be harmful in contact with skin. Toxic to aquatic life with long lasting effects.

Unknown Acute Toxicity

60% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS*

Chemical name	CAS No	Weight-%
Methyl alcohol	67-56-1	3
Ethyl alcohol	64-17-5	57

4. FIRST AID MEASURES

First Aid Measures

General advice Do not get in eyes, on skin, or on clothing. Show this safety data sheet to the doctor in

attendance.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Seek immediate medical attention/advice.

Skin contact Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated

clothing and wash before reuse. If skin irritation persists, call a physician.

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

symptoms persist, call a physician.

Ingestion Drink plenty of water. Do not induce vomiting without medical advice. Call a physician

immediately.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Use personal protection

recommended in Section 8.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Remove all sources of ignition. Use personal protection

recommended in Section 8.

Environmental precautions See Section 12 for additional Ecological Information. Beware of vapors accumulating to

form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

Methods for containment Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste

container. Dispose of contents/containers in accordance with local regulations.

Methods for cleaning up After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Do not taste or

swallow. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes

or clothing.

Conditions for safe storage, including any incompatibilities

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible Products NITRIC ACID. Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl alcohol	STEL: 250 ppm	TWA: 200 ppm	IDLH: 6000 ppm
67-56-1	TWA: 200 ppm	TWA: 260 mg/m ³	TWA: 200 ppm
	S*	(vacated) TWA: 200 ppm	TWA: 260 mg/m ³
		(vacated) TWA: 260 mg/m ³	STEL: 250 ppm
		(vacated) STEL: 250 ppm	STEL: 325 mg/m ³
		(vacated) STEL: 325 mg/m ³	
		(vacated) S*	
Ethyl alcohol	STEL: 1000 ppm	TWA: 1000 ppm	IDLH: 3300 ppm
64-17-5		TWA: 1900 mg/m ³	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1900 mg/m ³
		(vacated) TWA: 1900 mg/m ³	l

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations

Ventilation systems. Handle only in a place equipped with local exhaust (or other

appropriate exhaust).

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles).

Skin and body protectionGloves & Lab Coat. Impervious clothing. Protective gloves. Nitrile rubber.

Respiratory protection Use only with adequate ventilation.

Hygiene Measures Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state liquid

Appearance Dark Blue green liquid Odor Alcohol

Color dark blue green

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

рΗ

Melting point / freezing point

No information available
78.5 °C / 173.3 °F

Boiling point / boiling range78.5 °C / 173.3 °F for SDA (3A) Ethyl Alcohol
Not Applicable 16 °C / 60.8 °F Closed cup for SDA (3A) Ethyl Alcohol (based on .?)

Flash point Not Applicable 16 °C / 60.8 °F Evaporation rate

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit: No information available Lower flammability limit: No information available

Vapor pressure 48 mmHg @ 20°C for SDA (3A) Ethyl Alcohol

Vapor density1.6@ 20°C (Air=1) for SDA (3A) Ethyl AlcoholSpecific gravityNo information available

Water solubility
Solubility in other solvents
Partition coefficient
No information available
No information available
No information available

for SDA (3A) Ethyl Alcohol

Autoignition temperature 363 °C / 685 °F

Decomposition temperature
Kinematic viscosity
No information available

Other Information

Softening point
Molecular weight
VOC Content (%)
Density
No information available

10. STABILITY AND REACTIVITY

StabilityStable under recommended storage conditions. **Hazardous polymerization**Hazardous polymerization does not occur.

Conditions to avoid Heat, flames and sparks.

Incompatible materials NITRIC ACID. Strong oxidizing agents.

Hazardous decomposition products Carbon oxides (COx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Component identification

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Chemical name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Methyl alcohol 67-56-1	= 6200 mg/kg (Rat)	= 15800 mg/kg (Rabbit)	= 64000 ppm (Rat) 4 h = 22500 ppm (Rat) 8 h
Ethyl alcohol 64-17-5	= 7060 mg/kg (Rat)	Not Established	= 124.7 mg/L (Rat) 4 h

Information on toxicological effects

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

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Chemical name	ACGIH	IARC	NTP	OSHA
Methyl alcohol 67-56-1	Not Established	Not Established	Not Established	Not Established
Ethyl alcohol 64-17-5	A3	Group 1	Known	X

NTP (National Toxicology Program) Known - Known Carcinogen

ATEmix (oral) 2,626.00 mg/kg
ATEmix (dermal) 4,300.00 mg/kg
ATEmix (inhalation-dust/mist) 7.18 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects

Unknown Aquatic Toxicity 0.11 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Methyl alcohol	Not Established	13500 - 17600: 96 h Lepomis	Not Established
67-56-1		macrochirus mg/L LC50	
		flow-through 18 - 20: 96 h	
		Oncorhynchus mykiss mL/L LC50	

		static 19500 - 20700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 28200: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h	
		Pimephales promelas mg/L LC50 static	
Ethyl alcohol 64-17-5	Not Established	12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through	
		100: 96 h Pimephales promelas mg/L LC50 static	Static

Persistence and degradability

Ethanol: When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material is expected to quickly evaporate. When released into water, this material may evaporate to a moderate extent. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to be readily removed from the atmosphere by dry and wet deposition. When released into the air, this material is expected to have a half-life between 1 and 10 days.

Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow
Methyl alcohol 67-56-1	-0.77
Ethyl alcohol 64-17-5	-0.32

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of waste product or used containers according to local regulations.

Contaminated packaging

Do not reuse empty containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methyl alcohol 67-56-1	Not Established	Included in waste stream: F039	Not Established	U154
Ethyl alcohol 64-17-5	Not Established	-	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Methyl alcohol 67-56-1	Not Established	Not Established	Not Established	Not Established
Ethyl alcohol 64-17-5	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Methyl alcohol	Toxic
67-56-1	Ignitable
Ethyl alcohol	Toxic
64-17-5	Ignitable

14. TRANSPORT INFORMATION

DOT

Proper shipping name ETHANOL SOLUTION (Ethyl Alcohol Solution)

UN-No 1170 Hazard Class 3 Packing group II

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA

UN-No 1170

Proper shipping name ETHANOL SOLUTION

Hazard Class 3
Packing group ||

IMDG/IMO

UN-No 1170

Proper shipping name ETHANOL SOLUTION

Hazard Class 3 Packing group II

RID Not regulated

ADR Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Does not comply **DSL/NDSL** Complies Complies **EINECS/ELINCS ENCS** Does not comply Complies **IECSC** Complies **KECL** Complies **PICCS AICS** Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Methyl alcohol	1.0
67-56-1	
Ethyl alcohol	Not Established
64-17-5	

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Methyl alcohol 67-56-1	Not Established	Not Established	Not Established	Not Established
Ethyl alcohol 64-17-5	Not Established	Not Established	Not Established	Not Established

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)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Methyl alcohol 67-56-1	5000 lb	Not Established	RQ 5000 lb final RQ RQ 2270 kg final RQ
Ethyl alcohol	*-	Not Established	
64-17-5			

US State Regulations

California Proposition 65

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Chemical name	California Proposition 65
Methyl alcohol 67-56-1	Developmental
Ethyl alcohol 64-17-5	Carcinogen

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Methyl alcohol 67-56-1	X	X	X
Ethyl alcohol 64-17-5	X	X	X

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

Chemical name	CPSC (Consumer Product Safety Commission) - Specially Regulated Substances	
Methyl alcohol 67-56-1	Special labeling, 16 CFR 1500.14	
16. OTHER INFORMATION		

Physical and Chemical NFPA Health hazard 1 Flammability 3 Instability 0 Hazards N/A

Health hazard 2

Flammability 3





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Mar-14-2018

Reason for revision SDS sections updated 15 16

Disclaimer

Revision Date

The information provided on this SDS 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 Safety Data Sheet