

Safety Data Sheet

Section 1: Product & Company Identification

Product Name:	LP-01
Product #:	L-3410
Synonyms:	-
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

Section 2: Composition / Information on Ingredients

Component	CAS #	EC #	% Composition
Methyl acetate	79-20-9		95
CIN-16645	1799316-64-5		5

Section 3: Hazards Identification

Symbols	
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HMIS Rating

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
2		3	0

NFPA Rating

Health Hazard	Fire Hazard	Reactivity Hazard
2	3	0

Section 4: First Aid Measures

General Overview:	Immediately remove any clothing soiled by the product.
Inhalation:	Supply fresh air; consult doctor in case of complaints.
Skin:	Immediately rinse with water.

Eyes:	Rinse opened eyes for several minutes under running water. If symptoms persist, consult a doctor.
Ingestion:	If symptoms persist consult doctor.
	See section 11 for more detailed information on health effects & symptoms.

SECTION 5: Fire Fighting Measures

Flammability of the product:	Highly flammable.
Extinguishing Media:	CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Hazardous thermal (de)composition products:	No further relevant information available.
Special Fire Fighting Procedures:	No special measures required.
Flash Point:	No data available



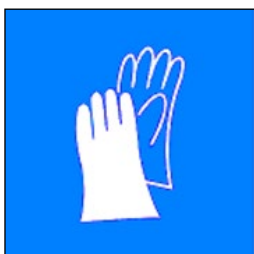

Section 6: Accidental Release Measures

Personal Precautions:	Wear protective equipment. Keep unprotected persons away.
Environmental Precautions:	Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.
Methods for Clean-up:	<p>Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.</p> <p>Protective Action Criteria Chemicals</p> <ul style="list-style-type: none"> • PAC-1: Methyl acetate (CAS 79-20-9) 250 ppm • PAC-2: Methyl acetate (CAS 79-20-9) 1,700 ppm • PAC-3: Methyl acetate (CAS 79-20-9) 10000* ppm

SECTION 7: Handling & Storage

Storage:	Recommended storage temperature: -20°C
Handling:	Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

SECTION 8: Exposure controls / Personal Protection

Respiratory Protection:	 <p>In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.</p>
Skin and Body:	  <p>Protective gloves and lab coat.</p>
Eyes:	 <p>Tightly sealed goggles</p>
Ventilation/Engineering Measures:	Ensure adequate ventilation.
Hygiene:	Follow standard good industrial hygiene practices.
Other:	<p>Components with limit values that require monitoring at the workplace: Methyl Acetate (CAS 79-20-9)</p> <ul style="list-style-type: none"> • PEL Long-term value: 610 mg/m³, 200 ppm • REL Short-term value: 760 mg/m³, 250 ppm • Long-term value: 610 mg/m³, 200 ppm • TLV Short-term value: 250 ppm • Long-term value: 200 ppm

SECTION 9: Physical and Chemical Properties

Appearance & Odor:	Liquid. Alcohol-like odor.
Formula	C ₅₀ H ₉₃ NO ₉
Molecular Wt.	852.3

Melting Pt.	-98°C (-144.4°F)
Boiling Pt.	57°C (134.6°F)
Densit at 20°C (68°F)	1 kg/m ³
Vapor Pressure:	At 20°C (68°F): 220 hPa (165 mm Hg) At 50°C (122°F): 800 hPa (600 mm Hg)
Evaporation Rate:	No data available
Vapor Density:	No data available
Solubility:	Dichloromethane, DMF, DMSO, Ethanol
Flash Point:	-13°C (8.6°F)
Autoignition Temp:	454°C (849.2°F)

SECTION 10: Stability and Reactivity

Stability:	No decomposition if used according to specifications.
Hazardous decomposition products:	No dangerous decomposition products known.
Materials to Avoid:	No data available
Conditions to avoid:	No data available

SECTION 11: Toxicological Information

RTECS#:	N/A
ACUTE Toxicity:	Methyl acetate (CAS 72-20-9) Oral LD50: 6,482 mg/kg (rat) Inhalation LC50: >49.2 mg/L (rabbit) 4 h Primary irritant effect: · on the skin: No irritant effect. · on the eye: Irritating effect. · Sensitization: No sensitizing effects known. · Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Irritant
CHRONIC Toxicity:	N/A
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC. AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP.

	<p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA.</p> <p>EPA: No classification on carcinogenic data is available from EPA</p>
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SECTION 12: Ecological Information

Ecotoxicity:	Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Mobility:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Other adverse effects:	No data available
Corrosivity Characteristic:	No data available
General Notes:	No data available

SECTION 13: Disposal Considerations

Residue Waste or Unused product:	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Contaminated Packaging:	Disposal must be made according to official regulations.

SECTION 14: Transportation Information

UN ID#:	UN1231
DOT regulations:	<p>UN1231</p> <p>Proper shipping name: Methyl acetate solution</p> <p>Class 3 Flammable Liquids</p> <p>Label 3</p> <p>Packing group: II</p> <p>Quantity limitations</p> <p>On passenger aircraft/rail: 5 L</p> <p>On cargo aircraft only: 60 L</p>
IMDG/IMO (SEA):	<p>UN1231</p> <p>Proper shipping name: METHYL ACETATE solution</p> <p>Class 3 Flammable Liquids</p> <p>Label 3</p> <p>Packing group: II</p>

	Limited quantities (LQ) 1L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
IATA/DGR (AIR):	UN1231 Proper shipping name: Methyl acetate solution Class 3 Flammable Liquids Label 3 Packing group: II Remarks: When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
Special Provisions:	Warning: Flammable liquids Hazard identification number (Kemler code): 33 EMS Number: F-E,S-D Stowage Category: B

SECTION 15: Regulatory Information

Health Phrases:	Danger! H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Risk Phrases:	P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/fume/gas/mist/vapors/spray P264 Wash thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Safety Phrases:	P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a poison center/doctor if you feel unwell. P337+P313 If eye irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

	P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
EU Regulations:	N/A
US Regulations:	TSCA: Methyl acetate (CAS 79-20-9) California Proposition 65: No products were found
U.S. Federal Regulations:	SARA 302/304 emergency planning and notification: No products were found. SARA 311/312 MSDS distribution-chemical inventory-hazard identification: No products were found. SARA 313 toxic chemicals notification and release reporting: No products were found. Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found. OSHA: Flammable liquids (Cat. 2); Eye irritation (Cat. 2A); Specific target organ toxicity - single exposure (Cat. 3)
WHMIS (Canada):	N/A

SECTION 16: Other Information

LIABILITY STATEMENT: *The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.*