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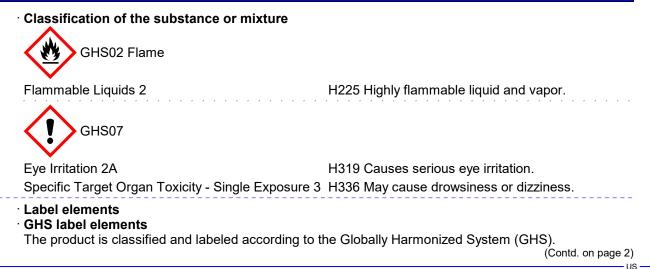
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1 Identification

- · Product identifier
- Trade name: <u>L-759,633</u>
- · Article number: 10009280
- **Application of the substance / the mixture** This product is for research use - Not for human or veterinary diagnostic or therapeutic use.
- · Details of the supplier of the safety data sheet
- **Manufacturer/Supplier:** Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA
- Information department: Product safety department
 Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

2 Hazard(s) identification



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Signal word Dang Hazard-determin Methyl acetate Hazard statemen H225 Highly flamr	ger ing components of labeling: its
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	mable liquid and vanor
	ious eye irritation.
	drowsiness or dizziness.
Precautionary st	
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.
P303+P361+P353	B If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	3 If in eyes: Rinse cautiously with water for several minutes. Remove contact lense 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/internati regulations.
Classification sy	
NFPA ratings (sc	
	lth = 2
20 Fire Read	= 3 ctivity = 0
HMIS-ratings (sc	ale 0 - 4)
	alth = 2
	e = 3 activity = 0

· Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

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99.0%

1.0%

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· **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

CAS: 79-20-9 Methyl acetate RTECS: Al9100000

Other ingredients

174627-50-0 L-759,633

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing: If symptoms persist consult doctor.

- · Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

• **Reference to other sections** See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information. • Protective Action Criteria for Chemicals	(Contd. from page 3)
· PAC-1:	
79-20-9 Methyl acetate	250 ppm
· PAC-2:	
79-20-9 Methyl acetate	1,700 ppm
· PAC-3:	
79-20-9 Methyl acetate	10000* ppm
	· · · · · · · · · · · · · · · · · · ·

7 Handling and storage

· Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

Components with limit values that require monitoring at the workplace:

79-20-9 Methyl acetate

- 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

• Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- Personal protective equipment:
- · General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.

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· Breathing equipment:

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.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

•	Α	p	р	е	а	ra	n	С	e	1		
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· Appearance:		
Form:	Liquid	
Color:	According to product specification	
· Odor:	Pleasant	
• Structural Formula	C26H40O2	
• Molecular Weight	384.6 g/mol	
· Odor threshold:	Not determined.	
• Formulation	A solution in methyl acetate	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	-98.05 °C (-144.5 °F)	
Boiling point/Boiling range:	57 °C (134.6 °F)	
· Flash point:	-13 °C (8.6 °F)	
· Flammability (solid, gaseous):	Highly flammable.	
· Auto igniting:	455 °C (851 °F)	
· Decomposition temperature:	Not determined.	
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· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air, vapor mixtures are possible.
· Explosion limits:	
Lower:	3.1 Vol %
Upper:	16 Vol %
· Vapor pressure at 20 °C (68 °F):	220 hPa (165 mm Hg)
· Density at 20 °C (68 °F):	0.93 g/cm³ (7.76085 lbs/gal)
· Bulk density:	1 kg/m³
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
 Solubility in / Miscibility with 	
Water at 20 °C (68 °F):	330 g/l
· Partition coefficient (n-octanol/wat	er): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
SOLUBILITY	Ethanol: 20 mg/ml; PBS (pH 7.2): 0.25 mg/ml
· Solvent content:	
Organic solvents:	99.0 %
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	0.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: strong oxidizing agents

· Hazardous decomposition products: carbon dioxide, carbon monoxide

11 Toxicological information

· Information on toxicological effects

LD50

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

79-20-9 Methyl acetate Oral

>5,000 mg/kg (rat)

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		3,705 mg/kg (rabbit) (Contd. from page (
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	TCLO	15,000 mg/m ³ (hmn)
Irritation of skin	Irritation	500 mg/24h (rabbit)
	Irritation	40 mg/kg/24h (rabbit)
Irritation of eyes	Irritation	100 mg/24h (rabbit)
	Intraperitoneal LD50	
· Additional toxic The product sho	ating effect. lo sensitizing effects k cological information	
• on the eye: Irrita • Sensitization: N • Additional toxic	ating effect. Io sensitizing effects k cological information ows the following dar	:
• on the eye: Irrita • Sensitization: N • Additional toxic The product sho preparations: Irritant • Carcinogenic ca	ating effect. Io sensitizing effects k cological information ows the following dar	ngers according to internally approved calculation methods for
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12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

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.

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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Uncleaned packagings:
 Recommendation: Disposal must be made according to official regulations.

Transport information	
UN-Number	
DOT, IMDG, IATA	UN1993
UN proper shipping name	
DOT	Flammable liquids, n.o.s. (Methyl acetate)
IMDG	FLAMMABLE LIQUID, N.O.S. (Methyl acetate)
ΙΑΤΑ	Flammable liquid, n.o.s. (Methyl acetate)
Transport hazard class(es)	
DOT	
•	
Class Label	3 Flammable liquids
	3
IMDG, IATA	
3	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code): EMS Number:	F-E,S-E
Stowage Category	B
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	a
Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
IMDG	41
Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2
LACEPIEU quantities (EQ)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
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ACTIVE

· IATA · 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.
• UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (METHYL ACETATE), 3, II

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

Section 355 (extre	emely hazardous	substances):
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None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

79-20-9 Methyl acetate

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

• EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value)

None of the ingredients is listed.

• NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes (Contd. on page 10)

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(Contd. from page 9) contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.
 Department issuing SDS: Environment protection department. Contact: - Date of preparation / last revision 03/10/2023 Abbreviations and acronyms: MDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ELINECS: European Inventory of Existing Commercial Chemical Substances ELINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LGS0: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PE1: Permissible Exposure Limit RE1: Recommended Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2A Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3