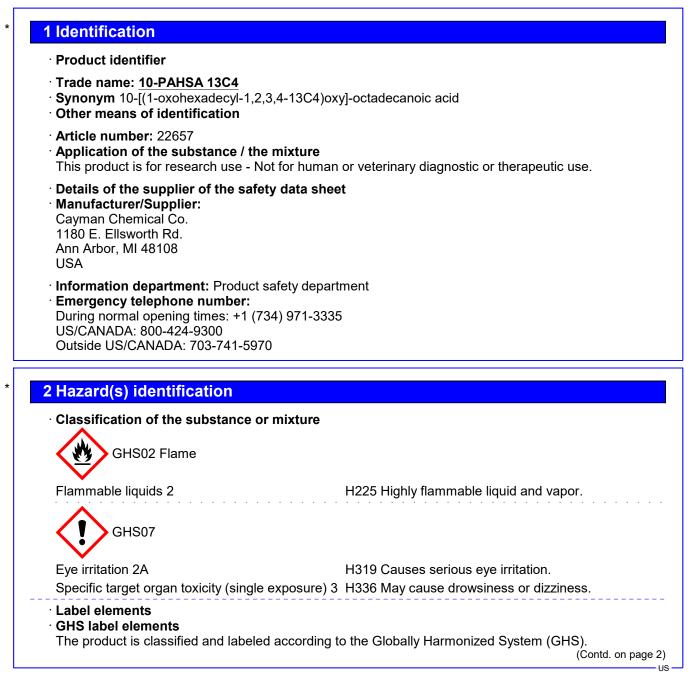


Safety Data Sheet

acc. to OSHA HCS

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	(Contd. from page 1)
 Hazard pictog 	rams
GHS02 GHS	07
· Signal word Da	anger
 Hazard-determ Methyl acetate 	nining components of labeling:
• Hazard statem	
	mmable liquid and vapor.
	erious eye irritation.
	se drowsiness or dizziness.
• Precautionary	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground / bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent 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/hearing protection.
P303+P361+P3	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
	338 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.
· Information pe	ertaining to particular dangers for man and environment:
Classification	
· NFPA ratings (•
н	ealth = 2
	re = 3
	eactivity = 0
. UMIS ratings (

· HMIS-ratings (scale 0 - 4)

HEALTH2Health = 2FIRE3Fire = 3REACTIVITY0

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99.9%

0.1%

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· Other hazards

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

· Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

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

2705244-93-3 10-PAHSA 13C4

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.
- 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.

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 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, sav Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Protective Action Criteria for Chemicals 	(Contd. from page 3) vdust).
· 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
 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. 	

7 Handling and storage

· 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

· 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

• Appropriate engineering controls No further data; see section 7.

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- 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.
- · 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
- · Physical state
- · Color:
- · Odor:
- · Structural Formula
- · Molecular Weight
- · Storage Buffer
- · Odor threshold:
- · Formulation
- Melting point/Melting range:
- Boiling point/Boiling range:
- · Flammability:
- Explosion limits:
- · Lower:

Liquid Colorless Pleasant C30[13C]4H66O4 542.9 g/mol

Not determined. A solution in methyl acetate -98 °C (-144.4 °F) 57 °C (134.6 °F) Highly flammable.

3.1 Vol %

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· Upper:	16 Vol %
Flash point:	-13 °C (8.6 °F)
· Auto igniting:	454 °C (849.2 °F)
 Decomposition temperature: 	Not determined.
pH-value:	Not determined.
· Viscosity:	
· Kinematic:	Not determined.
· SOLUBILITY	DMF: 20 mg/ml; DMSO: 15 mg/ml; Ethanol: 20 mg/
	ml; Ethanol:PBS(pH 7.2) (1:1): 0.5 mg/ml
[.] Dynamic at 20 °C (68 °F):	0.381 mPas
 Solubility in / Miscibility with 	
· Water at 20 °C (68 °F):	330 g/l
 Partition coefficient (n-octanol/water): 	Not determined.
· Vapor pressure at 20 °C (68 °F):	220 hPa (165 mm Hg)
· Vapor pressure at 50 °C (122 °F):	800 hPa (600 mm Hg)
· Density at 20 °C (68 °F):	0.93 g/cm³ (7.76085 lbs/gal)
Relative density	Not determined.
· Bulk density:	1 kg/m³
· Vapor density	Not determined.
· Particle characteristics	Not applicable.
• Other information	
· Appearance:	
· Form:	Liquid
Important information on protection of healt	1
and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of
Oshanit santari	explosive air/vapor mixtures are possible.
Solvent content:	
Organic solvents:	99.9 %
· VOC content:	
Oslida esetente	0.0 g/l / 0.00 lb/gal
Solids content:	0.1 %
Change in condition Eveneration rate	Not determined
· Evaporation rate	Not determined.

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: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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 Acute toxicity: LD/LC50 values that are relevant for classification: 				
Oral	LD50	6,482 mg/kg (rat)		
Inhalative	LC50/4 h	>49.2 mg/l (rabbit)		
Primary in				
on the sk				
on the ey				
		ensitizing effects known.		
		gical information:		
		the following dangers according to internally approved calculation methods the		
preparatio		the following dangers according to internally approved calculation methods		
preparatio Irritant	ns:			
preparatio Irritant	ns:	the following dangers according to internally approved calculation methods No interactive effects between components are known.		
preparatio Irritant	ns: e effects l	No interactive effects between components are known.		
preparatio Irritant Interactiv Carcinog	ns: e effects i enic categ	No interactive effects between components are known.		
preparatio Irritant • Interactiv • Carcinog • IARC (Inter	ns: e effects l enic categ ernational	No interactive effects between components are known. Jories		
preparatio Irritant Interactiv Carcinog IARC (Inte None of th	ns: e effects f enic categ ernational ne ingredie	No interactive effects between components are known. Jories Agency for Research on Cancer)		
preparatio Irritant • Interactiv • Carcinog • IARC (Inter None of th • NTP (Nati	ns: e effects f enic categ ernational ne ingredie onal Toxi	No interactive effects between components are known. Jories Agency for Research on Cancer) nts is listed.		
preparatio Irritant • Interactiv • Carcinog • IARC (Inte None of th • NTP (Nati None of th	ns: e effects I enic categ ernational ne ingredie onal Toxim ne ingredie	No interactive effects between components are known. Jories Agency for Research on Cancer) nts is listed. cology Program)		

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- Other adverse effects
- · 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.

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13 Disposal considerations

· Waste treatment methods

· Recommendation:

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

· Uncleaned packagings:

• **Recommendation:** Disposal must be made according to official regulations.

UN-Number DOT, IMDG, IATA	UN1231	
UN proper shipping name DOT, IATA IMDG	Methyl acetate solution METHYL ACETATE solution	
Transport hazard class(es)		
DOT		
RUMARE DODO		
Class	3 Flammable liquids	
Label	3	
IMDG, IATA		
Class	3 Flammable liquids	
Label	3	
Packing group DOT, IMDG, IATA	II	
Environmental hazards:	Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:		
DOT		
Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L	
IMDG		
Limited quantities (LQ)	1L	

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· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
·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.
 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category 	Warning: Flammable liquids 33 F-E,S-D B
· UN "Model Regulation":	UN 1231 METHYL ACETATE SOLUTION, 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 (extremely hazardous substances):	
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	ACTIVE
· Hazardous Air Pollutants	
None of the ingredients is listed.	
· 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.	

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• 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 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 previous version 05/27/2022
- Date of preparation 02/05/2025
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent. Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety **OSHA: Occupational Safety & Health** TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** Flammable liquids 2: Flammable liquids – Category 2 Eye irritation 2A: Serious eye damage/eye irritation - Category 2A Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) - Category 3 * * Data compared to the previous version altered.