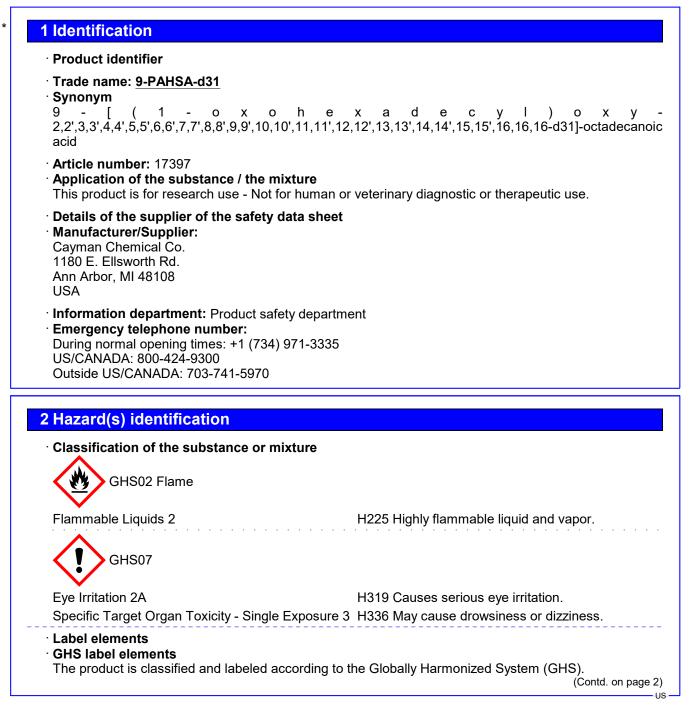


Page 1/10

# Safety Data Sheet acc. to OSHA HCS

Printing date 12/14/2023

Revision date 12/14/2023



Printing date 12/14/2023

Revision date 12/14/2023

#### Trade name: 9-PAHSA-d31

. Hazard niatograma	(Contd. from page 1)
· Hazard pictograms	
$\checkmark$ $\checkmark$	
GHS02 GHS07	
· Signal word Danger	
<ul> <li>Hazard-determining components of labeling:</li> </ul>	
Methyl acetate · Hazard statements	
H225 Highly flammable liquid and vapor.	
H319 Causes serious eye irritation.	
H336 May cause drowsiness or dizziness.	
· Precautionary statements	
P210 Keep away from heat/sparks/open flames/ho	ot surfaces No smoking.
P240 Ground/bond container and receiving equipm	nent.
P241 Use explosion-proof electrical/ventilating/ligh	nting/equipment.
P242 Use only non-sparking tools.	
P243 Take precautionary measures against static	
P261 Avoid breathing dust/fume/gas/mist/vapors/s	spray
P264 Wash thoroughly after handling.	_
P271 Use only outdoors or in a well-ventilated area P280 Wear protective gloves/protective clothing/eg	
P303+P361+P353 If on skin (or hair): Take off immediately al	
water/shower.	r containinated clothing. Minse skin with
P304+P340 IF INHALED: Remove person to fresh air an	d keep comfortable for breathing.
P305+P351+P338 If in eyes: Rinse cautiously with water for se 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/a	
P370+P378 In case of fire: Use CO2, powder or water sp	
P403+P233 Store in a well-ventilated place. Keep contain	ner 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
P501 Dispose of contents/container in accordance regulations.	e with local/regional/national/international
· Classification system:	
• NFPA ratings (scale 0 - 4)	
Health = 2	
Fire = 3	
Reactivity = 0	

· HMIS-ratings (scale 0 - 4)

HEALTH2Health = 2FIRE3Fire = 3REACTIVITY0

· Other hazards

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.

(Contd. on page 3)

US

Printing date 12/14/2023

Revision date 12/14/2023

(Contd. from page 2)

99.9%

0.1%

Trade name: 9-PAHSA-d31

· 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

9-PAHSA-d31

#### **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 section 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.

(Contd. on page 4)

US

Printing date 12/14/2023

Revision date 12/14/2023

#### Trade name: 9-PAHSA-d31

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 section 7.
- · Control parameters

· Components with limit values that require monitoring at the workplace:

#### 79-20-9 Methyl acetate

- PEL Long-term value: 610 mg/m<sup>3</sup>, 200 ppm
- REL Short-term value: 760 mg/m<sup>3</sup>, 250 ppm Long-term value: 610 mg/m<sup>3</sup>, 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.

(Contd. on page 5)

US

Printing date 12/14/2023

Revision date 12/14/2023

#### Trade name: 9-PAHSA-d31

(Contd. from page 4)

#### · 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			
· Appearance:			
Form:	Liquid		
Color:	According to product specification		
· Odor:	Pleasant		
Structural Formula	C34H35D31O4		
· Molecular Weight	570.1 g/mol		
<ul> <li>Odor threshold:</li> </ul>	Not determined.		
· Formulation	A solution in methyl acetate		
· pH-value:	Not determined.		
· Change in condition			
Melting point/Melting range:	-98 °C (-144.4 °F)		
Boiling point/Boiling range:	57 °C (134.6 °F)		
· Flash point:	-13 °C (8.6 °F)		
<ul> <li>Flammability (solid, gaseous):</li> </ul>	Highly flammable.		
· Auto igniting:	454 °C (849.2 °F)		
· Decomposition temperature:	Not determined.		
		(Contd. on page 6)	

- US

Printing date 12/14/2023

Revision date 12/14/2023

Trade name: 9-PAHSA-d31

	(Contd. from page 5)
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
<sup>·</sup> Explosion limits: Lower: Upper:	3.1 Vol % 16 Vol %
<ul> <li>Vapor pressure at 20 °C (68 °F):</li> <li>Vapor pressure at 50 °C (122 °F):</li> </ul>	220 hPa (165 mm Hg) 800 hPa (600 mm Hg)
<sup>·</sup> Density at 20 °C (68 °F):	0.93 g/cm³ (7.76085 lbs/gal)
<ul> <li>Bulk density:</li> <li>Relative density</li> <li>Vapor density</li> <li>Evaporation rate</li> </ul>	1 kg/m³ Not determined. Not determined. Not determined.
<ul> <li>Solubility in / Miscibility with</li> <li>Water at 20 °C (68 °F):</li> </ul>	330 g/l
· Partition coefficient (n-octanol/water	): Not determined.
<ul> <li>Viscosity: Dynamic at 20 °C (68 °F): Kinematic: SOLUBILITY</li> </ul>	0.381 mPas Not determined. DMF: 20 mg/ml; DMSO: 15 mg/ml; Ethanol: 20 mg/ml; Ethanol:PBS(pH 7.2) (1:1): 0.5 mg/ml
<ul> <li>Solvent content:</li> <li>Organic solvents:</li> <li>VOC content:</li> </ul>	99.9 % 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

(Contd. on page 7)

US

Printing date 12/14/2023

Revision date 12/14/2023

#### Trade name: 9-PAHSA-d31

(Contd. from page 6)

1 Toxicological information · Information on toxicological effects						
	Acute toxicity:     LD/LC50 values that are relevant for classification:					
	79-20-9 Methyl acetate					
Oral						
· Sensitiza · Additiona	e: Irritating tion: No se Il toxicolog uct shows					
· Carcinog						
•		Agency for Research on Cancer)				
None of th	None of the ingredients is listed.					
· NTP (Nati	· NTP (National Toxicology Program)					
None of the ingredients is listed.						
· OSHA-Ca (Occupational Safety & Health Administration)						
None of th	None of the ingredients is listed.					

## **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.

(Contd. on page 8)

US

Printing date 12/14/2023

Revision date 12/14/2023

(Contd. from page 7)

Trade name: 9-PAHSA-d31

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

Transport information	
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 LOUD	
Class	3 Flammable liquids
Label IMDG, IATA	3
Class Label	3 Flammable liquids 3
Packing group DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Flammable liquids 33 F-E,S-D B
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) Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

US

Printing date 12/14/2023

Revision date 12/14/2023

#### Trade name: 9-PAHSA-d31

(Contd. from page 8)

· 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 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.

· 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 contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes (Contd. on page 10)

Printing date 12/14/2023

Revision date 12/14/2023

### Trade name: 9-PAHSA-d31

(Contd. from page 9) 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.
<ul> <li>Department issuing SDS: Environment protection department.</li> <li>Contact: -</li> <li>Date of preparation / last revision 12/14/2023</li> <li>Abbreviations and acronyms:         <ul> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>DOT: US Department of Transportation</li> <li>IATA: International Air Transport Association</li> <li>EINECS: European List of Notified Chemical Substances</li> <li>ELINCS: European List of Notified Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>NFPA: National Fire Protection Association (USA)</li> <li>VOC: Volatile Organic Compounds (USA, EU)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPW: very Persistent and very Bioaccumulative</li> <li>NIOSH: National Institute for Occupational Safety</li> <li>OSHA: Occupational Safety &amp; Health</li> <li>TV: Threshold Limit Value</li> <li>PEL: Permissible Exposure Limit</li> <li>ReL: Recommended Exposure Limit</li> <li>Flammable Liquids 2: Flammable liquids – Category 2A</li> <li>Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3</li> <li>* Data compared to the previous version altered.</li> </ul> </li> </ul>