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acc. to OSHA HCS

Printing date 07/28/2021

1 Identification

· Product identifier

• Trade name: <u>Standard solution 5 in 1 mL Pyridine</u> • Article number N9331071 Review date 07/27/2021

 Details of the supplier of the safety data sheet Manufacturer/Supplier: PerkinElmer, Inc. 710 Bridgeport Avenue Shelton, Connecticut 0648 USA CustomerCareUS@perkinelmer.com 203-925-4600 Emergency telephone number: CHEMTREC (vintin US) 800-424-9300 CHEMTREC (vintin AU) + (01)-290372994 2 Huzard(s) identification c Lassonification of the substance or mixture viso Flame Flame Flam. Liq. 2 H225 Highly flammable liquid and vapor. Actue Tox. 4 H302 Harmful if swallowed. Actue Tox. 4 H312 Harmful if inhaled. Label elements c Give Constraints c Give Constraints c Give Constraints c Flazed c Hazard dictograms c Hazard sitements Hazard foisorants Hazard dictograms Hazard dictorerning components of labeling: pyricine Hazard dictorerning components of labeling: pyricine		of the substance / the mixture Laboratory chemicals	
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(Contd. of page 1) P261 Avoid breathing dust/fume/gas/mist/vapors/sprav P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eve protection/face protection. P280 P301+P312 If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. P330 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. P321 Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. P362+P364 P370+P378 In case of fire: Use for extinction: CO2, powder or water spray. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 1



· HMIS-ratings (scale 0 - 4)

HEALTH 1	Health = 1
	Fire = 3
REACTIVITY 0	<i>Reactivity</i> $= 0$

· Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

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

3 Composition/information on ingredients

· CAS No. Description

- 110-86-1 pyridine
- EC number: 203-809-9
- · Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

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· Hazardous components:	
110-86-1 pyridine	99.9996%
 Flam. Liq. 2, H225 Carc. 2, H351 	
🐼 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	
	(Contd. on page 3)

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· Additional Components		
56-81-5	•	0.0001%
111-03-5	2,3-dihydroxypropyl oleate	0.0001%
122-32-7	Triolein	0.0001%
25637-84-7	Diolein	0.0001%

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing:

Call a doctor immediately. Immediately call a 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.

- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures	
Wear protective equipment. Keep unprotected persons away.	
· Environmental precautions:	
Inform respective authorities in case of seepage into water course or sewage system.	
Prevent seepage into sewage system, workpits and cellars.	
Dilute with plenty of 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.	
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(Contd. on page 4)

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Ensure adequate ventilation.	(Contd. of page 3)
· 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.	
· Protective Action Criteria for Chemicals	
• PAC-1:	
110-86-1 pyridine	3 ppm
56-81-5 glycerol	45 mg/m^3
• PAC-2:	
110-86-1 pyridine	19 ppm
56-81-5 glycerol	180 mg/m ³
· PAC-3:	
110-86-1 pyridine	3600* ppm
56-81-5 glycerol	1,100 mg/m ³

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:
- **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:

110-86-1 pyridine

PEL Long-term value: 15 mg/m³, 5 ppm

REL Long-term value: 15 mg/m³, 5 ppm

TLV Long-term value: 3.1 mg/m³, 1 ppm

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USA



· pH-value:

· Flash point:

· Change in condition

Melting point/Melting range:

Boiling point/Boiling range:

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Not determined.

115 °C (239 °F)

17 °C (62.6 °F)

-41.8 °C (-43.2 °F)

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	(Contd. of page 5)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	550 °C (1022 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	1.7 Vol %
Upper:	10.6 Vol %
· Vapor pressure at 20 °C (68 °F):	20 hPa (15 mm Hg)
• Density at 20 •C (68 •F):	0.9819 g/cm³ (8.19396 lbs/gal)
Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible.
· Partition coefficient (n-octanol/wate	er): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.0 %
VOC content:	0.00 %
• 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: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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2B

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

110-86-1 pyridine

Oral LD50 891 mg/kg (rat)

Dermal LD50 1121 mg/kg (rabbit)

• Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: No irritating effect.

• Sensitization: No sensitizing effects known.

· Additional toxicological information: Harmful

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

110-86-1 pyridine

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

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:

Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- · 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:

Dispose of container and materials in accordance with local, regional and national regulations.

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· Uncleaned packagings:

• **Recommendation:** Disposal must be made according to official regulations. • **Recommended cleansing agent:** Water, if necessary with cleansing agents.

UN-Number		
DOT, ADR, IMDG, IATA	UN1282	
UN proper shipping name		
	Pyridine solution	
ADR	1282 PYRIDINE solution	
IMDG, IATA	PYRIDINE solution	
Transport hazard class(es)		
DOT		
3		
	2 Elemente li sui de	
Class Label	3 Flammable liquids 3	
	<i>.</i>	
ADR		
3		
Class	3 (F1) Flammable liquids	
Label	3	
IMDG, IATA		
\mathbf{V}		
Class	3 Flammable liquids	
Label	3	
Packing group		
DOT, ADR, IMDG, IATA	II	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Warning: Flammable liquids	
Hazard identification number (Kemler code):	33	
EMS Number:	F-E,S-D	
Stowage Category	В	



*

acc. to OSHA HCS

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	(Contd. of page
Stowage Code	SW2 Clear of living quarters.
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
ADR	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
IMDG	
Limited quantities (LQ)	1L
Excepted quantities $(\widetilde{E}Q)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN ''Model Regulation'':	UN 1282 PYRIDINE SOLUTION, 3, II

	r mixture
110-86-1 pyridine Flam. Liq. 2, H225 Carc. 2, H351 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	99.99969
56-81-5 glycerol	0.0001%
111-03-5 2,3-dihydroxypropyl oleate	0.0001%
Sara	
Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
110-86-1 pyridine	
TSCA (Toxic Substances Control Act):	
All ingredients are listed.	
6	ACTIVI
110-86-1 pyridine	ACTIV
	АСПИ
110-86-1 pyridine	ACTIVI
110-86-1 pyridine 56-81-5 glycerol	ACTIVI
110-86-1 pyridine 56-81-5 glycerol 111-03-5 2,3-dihydroxypropyl oleate	ACTIVA ACTIVA
110-86-1 pyridine 56-81-5 glycerol 111-03-5 2,3-dihydroxypropyl oleate 122-32-7 Triolein	



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A3

Proposition 65
 Chemicals known to cause cancer:

110-86-1 pyridine

• 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.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH)

110-86-1 pyridine

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

None of the ingredients is listed.

· National regulations:

· Information about limitation of use:

Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

· Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

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

16 Other information

Disclaimer

The information provided in this Material Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer shall not be held liable for any damage resulting from handling or from contact with the product.

· Department issuing SDS: Environmental, Health and Safety

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IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists 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 Flam. Liq. 2: Flammable liquids – Category 2 Acute Tox. 4: Acute toxicity – Category 4 Carc. 2: Carcinogenicity – Category 2 • * Data compared to the previous version altered.