

SECTION 1: Identification of the substance/mixture and of the company/undertaking

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Revision: 28.07.2021

Trade name RFS	ifier	
Li aut nume. <u>RESI</u>	SIN-POLYIMIDE SEG 5 GRAMS	
Article number: N		
	tified uses of the substance or mixture and uses advised against	
	nt information available.	
	e substance / the mixture Laboratory chemicals	
1.3 Details of the st Manufacturer/Sup	supplier of the safety data sheet pplier:	
PerkinElmer, Inc.		
710 Bridgeport Ave	venue	
Shelton, Connectici		
CustomerCareUS(a		
203-925-4600		
PerkinElmer, Inc.		
Chalfont Road Buc	ckinghamshire	
Seer Green HP9 21		
cc.uk@perkinelmer	er.com	
United Kingdom		
P: 0800 896 046		
F: 0800-89 17 14		
PerkinElmer, Inc.		
Llantrisant Busines	ess Park Unit A	
Llantrisant CF72 8		
United Kingdom		
cc.uk@perkinelmer	er.com	
P: 44 1443 234005		
1.4 Emergency tele	lephone number:	
	hin US) 800-424-9300	
	m outside US) +1 703-527-3887 (call collect)	
CHEMTREC (with	hin AU) +(61)-290372994	
CECTION A. D	7	
	Hazards identification	
	of the substance or mixture	
2.1 Classification of	cording to Regulation (EC) No 1272/2008	
2.1 Classification of		
2.1 Classification of Classification acco		
2.1 Classification of Classification acco	health hazard	
2.1 Classification of Classification acco		
2.1 Classification of Classification acco GHS08 h Repr. 1B H3601	D May damage the unborn child.	
2.1 Classification of Classification acco GHS08 h Repr. 1B H3601	DD May damage the unborn child.	
2.1 Classification of Classification acco GHS08 h Repr. 1B H3601	D May damage the unborn child.	
2.1 Classification of Classification acco GHS08 h Repr. 1B H3601 Asp. Tox. 1 H304	<ul><li>D May damage the unborn child.</li><li>May be fatal if swallowed and enters airways.</li></ul>	
2.1 Classification of Classification acco GHS08 h Repr. 1B H3601	<ul><li>D May damage the unborn child.</li><li>May be fatal if swallowed and enters airways.</li></ul>	
2.1 Classification of Classification acco GHS08 h Repr. 1B H3601 Asp. Tox. 1 H304	0D May damage the unborn child. 4 May be fatal if swallowed and enters airways.	
2.1 Classification of Classification acco GHS08 h Repr. 1B H3601 Asp. Tox. 1 H304	<ul> <li>D May damage the unborn child.</li> <li>May be fatal if swallowed and enters airways.</li> <li>Causes skin irritation.</li> </ul>	



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# according to 1907/2006/EC, Article 31

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	(Contd. of page
STOT SE 3 H3	35 May cause respiratory irritation.
· 2.2 Label eleme	ents
· Labelling accor	ding to Regulation (EC) No 1272/2008
	classified and labelled according to the CLP regulation.
· Hazard pictogre	ams GHS07, GHS08
• Signal word Da	inger
· Hazard-determi	ining components of labelling:
N-methyl-2-pyri	
	oleum), hydrotreated light
toluene	
· Hazard stateme	nts
H315 Causes	skin irritation.
H319 Causes	serious eye irritation.
H360D May dat	mage the unborn child.
	use respiratory irritation.
	fatal if swallowed and enters airways.
• Precautionary s	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P321	Specific treatment (see on this label).
P331	Do NOT induce vomiting.
P305 + P351 + P.	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
	present and easy to do. Continue rinsing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/internation regulations.
· 2.3 Other hazar	
	bes not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds
formaldehydes.	
	and vPvB assessment
• <b>PBT:</b> Not applie	
• <b>vPvB</b> : Not appli	
<b>H i Di i i i i i i i i i</b>	

## · 3.2 Chemical characterisation: Mixtures

 $\cdot \textit{Description: Mixture of substances listed below with nonhazardous additions.}$ 

# Dangerous components: CAS: 872-50-4 N-methyl-2-pyrrolidone 70.0% EINECS: 212-828-1 Repr. 1B, H360D 70.0% Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 (Contd. on page 3)



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	(Contd. of page 2)
CAS: 64742-47-8 Distillates (petroleum), hydrotreated light	20.0%
EINECS: 265-149-8  Flam. Liq. 3, H226 Asp. Tox. 1, H304	
CAS: 108-88-3 toluene	0.1%
EINECS: 203-625-9 Flam. Liq. 2, H225 Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H30 Skin Irrit. 2, H315; STOT SE 3, H336	)4
🚯 Skin Irrit. 2, H315; STOT SE 3, H336	
· Additional Components	
25038-81-7 polyimide polymer	9.9%
·SVHC	

872-50-4 N-methyl-2-pyrrolidone

• Additional information: For the wording of the listed hazard phrases refer to section 16.

## **SECTION 4:** First aid measures

- 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- 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.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### **SECTION 5: Firefighting measures**

- 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

### **SECTION 6:** Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: No special measures required.

• 6.3 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.

· 6.4 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.

## SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about fire - and explosion protection: Keep respiratory protective device available.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles: No special requirements.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions: Keep container tightly sealed.

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

#### SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

• Additional information about design of technical facilities: No further data; see item 7.

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

872-50-4 N-methyl-2-pyrrolidone

WEL Short-term value: 80 mg/m<sup>3</sup>, 20 ppm Long-term value: 40 mg/m<sup>3</sup>, 10 ppm Sk

#### 108-88-3 toluene

WEL Short-term value: 384 mg/m<sup>3</sup>, 100 ppm

Long-term value: 191 mg/m<sup>3</sup>, 50 ppm Sk

• *Additional information: The lists valid during the making were used as basis.* 

#### · 8.2 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.

Store protective clothing separately.

Avoid contact with the eyes and skin.

• Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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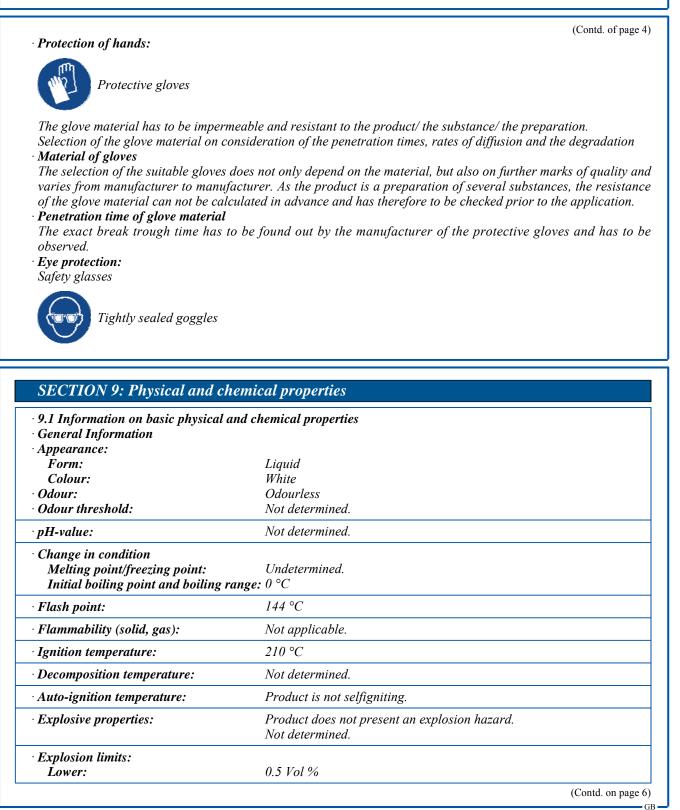
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	(Contd. of page
Upper:	9.5 Vol %
• Vapour pressure at 20 •C:	2 hPa
· Density at 20 •C:	$1.034 \text{ g/cm}^3$
Relative density	Not determined.
· Vapour density	Not determined.
Evaporation rate	Not determined.
· Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	70.1 %
· 9.2 Other information	No further relevant information available.

# **SECTION 10:** Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

#### 872-50-4 N-methyl-2-pyrrolidone

Oral LD50 3914 mg/kg (rat)

Dermal LD50 8000 mg/kg (rabbit)

#### · Primary irritant effect:

Skin corrosion/irritation

Causes skin irritation.

• Serious eye damage/irritation

Causes serious eye irritation.

• Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· Additional toxicological information:

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

• Germ cell mutagenicity Based on available data, the classification criteria are not met.

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· Carcinogenicity Based on available data, the classification criteria are not met.

· Reproductive toxicity

May damage the unborn child.

- · STOT-single exposure
- May cause respiratory irritation.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard
- May be fatal if swallowed and enters airways.

#### **SECTION 12: Ecological information**

#### · 12.1 Toxicity

- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

## **SECTION 13: Disposal considerations**

#### · 13.1 Waste treatment methods

· Recommendation

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

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

· 14.1 UN-Number		
· ADR, ADN, IMDG, IATA	Void	
· 14.2 UN proper shipping name		
· ADR, ADN, IMDG, IATA	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA		
· Class	Void	
· 14.4 Packing group		
· ADR, IMDG, IATA	Void	



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· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Ann Marpol and the IBC Code	nex II of Not applicable.
· UN "Model Regulation":	Non regulated according to above specifications. Void

SECTION 15: Regulatory information • 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture		
		CAS: 872-50-4 EINECS: 212-828-1
CAS: 64742-47-8	Distillates (petroleum), hydrotreated light Flam. Liq. 3, H226 Asp. Tox. 1, H304	20.0%
CAS: 25038-81-7	polyimide polymer	9.9%

· Directive 2012/18/EU

• Named dangerous substances - ANNEX I None of the ingredients is listed.

• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 30, 48, 71, 72

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

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.

• Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57

872-50-4 N-methyl-2-pyrrolidone

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

### **SECTION 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 Life and Analytical Sciences shall not be held

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liable for any damage resulting from handling or from contact with the product.	(Contd. of page 8
Relevant phrases	
H225 Highly flammable liquid and vapour.	
H226 Flammable liquid and vapour.	
H304 May be fatal if swallowed and enters airways.	
H315 Causes skin irritation.	
H319 Causes serious eye irritation.	
H335 May cause respiratory irritation.	
H336 May cause drowsiness or dizziness.	
H360D May damage the unborn child.	
H361d Suspected of damaging the unborn child.	
H373 May cause damage to organs through prolonged or repeated exposure.	
Department issuing SDS:	
Environmental, Health and Safety	
PerkinElmer	
Chalfont Road	
Buckinghamshire	
Seer Green	
HP9 2FX	
United Kingdom	
Telephone : 0800-89 60 46	
FAX : 0800-89 17 14	
Contact:	
Within the USA: 1-(800)-762-4000	
Outside the USA: 1-(203)-712-8488	
Abbreviations and acronyms	
ADDR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreeme	nt concerning the Internation
Carriage of Dangerous Goods by Road)	in concerning the internatione
IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification and Labelling of Chemicals	
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)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative	
Flam. Liq. 2: Flammable liquids – Category 2	
Flam. Liq. 3: Flammable liquids – Category 3	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
Repr. 1B: Reproductive toxicity – Category 1B	
Repr. 2: Reproductive toxicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
STOT SE 3. Specific target organ toxicity (single exposure) – Category 5 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	
Asp. Tox. 1: Aspiration hazard – Category 1	
* Data compared to the previous version altered.	