

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

Printing date 28.07.2021

Revision: 28.07.2021

	uct identifier
	me: PREPACKED PYROLYSIS TUBE
	umber: N2410696
	ant identified uses of the substance or mixture and uses advised against r relevant information available.
	on of the substance / the mixture Laboratory chemicals
	ls of the supplier of the safety data sheet turer/Supplier:
PerkinEln	ner, Inc.
710 Bridg	geport Avenue
Shelton, C	Connecticut 06484 USA
Customer 203-925-	CareUS@perkinelmer.com 4600
PerkinEln	ner, Inc.
	Road Buckinghamshire
Seer Gree	en HP9 2FX
	erkinelmer.com
United Ki	
P: 0800 8	
F: 0800-8	09 1/ 14
PerkinEln	ner, Inc.
	nt Business Park, Unit A
Llantrisa	nt CF72 8YW
United Ki	ingdom
	erkinelmer.com
	13 234005
	gency telephone number:
	REC (within US) 800-424-9300 REC (from outside US) + 1 702 527 2887 (call collect)
	REC (from outside US) +1 703-527-3887 (call collect) REC (within AU) +(61)-290372994
CHEMIN	
SECTIO	ON 2: Hazards identification
	ification of the substance or mixture
	ation according to Regulation (EC) No 1272/2008
	uct is not classified, according to the CLP regulation.
	elements
	according to Regulation (EC) No 1272/2008 Void
	ictograms Void
Signal wo	ord Void tatements Void
	al information:
	ta sheet available on request.
2.3 Other	
	luct does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds o
ine proa	
formaldel	hydes.



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· Results of PBT and vPvB assessment

• *PBT*: Not applicable.

• **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:					
CAS: 7440-50-8	copper	60.3%			
EINECS: 231-159-6	substance with a Community workplace exposure limit				
CAS: 7440-44-0	carbon	13.2%			
EINECS: 231-153-3	🚸 Flam. Sol. 1, H228				
CAS: 60676-86-0	Silica, fused	11.2%			
EINECS: 262-373-8	substance with a Community workplace exposure limit				
CAS: 7440-06-4	platinum	8.4%			
EINECS: 231-116-1	substance with a Community workplace exposure limit				
CAS: 7440-22-4	silver	6.9%			
EINECS: 231-131-3	substance with a Community workplace exposure limit				
• Additional informati	ion: For the wording of the listed hazard phrases refer to section 16.	·,			

SECTION 4: First aid measures

• 4.1 Description of first aid measures

• After inhalation: Supply fresh air; consult doctor in case of complaints.

• *After skin contact: Generally the product does not irritate the skin.*

• After eye contact: Rinse opened eye for several minutes under running water.

• 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:

Inform respective authorities in case of seepage into water course or sewage system.

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• 6.3 Methods and material for containment and cleaning up: Pick up mechanically.

· 6.4 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.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about fire and explosion protection: No special measures required.

· 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: None.

• 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:

7440-50-8 copper

WEL Short-term value: 2** mg/m³ Long-term value: 0.2* 1** mg/m³ *fume **dusts and mists (as Cu)

60676-86-0 Silica, fused

WEL Long-term value: 0.08 mg/m³ fused respirable dust

7440-06-4 platinum

WEL Long-term value: 5 mg/m³

7440-22-4 silver

WEL Long-term value: 0.1 mg/m³

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

· 8.2 Exposure controls

· Personal protective equipment:

• General protective and hygienic measures: Wash hands before breaks and at the end of work.

- Respiratory protection: Not required.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. 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.

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· Penetration time of glove material

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

• Eye protection: Not required.

9.1 Information on basic physical and ch	emical properties	
General Information		
Appearance: Form:	Solid in manious forms	
Form: Colour:	Solid in various forms Not determined.	
Odour:	Odourless	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not determined.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard. Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not applicable.	
Density at 20 °C:	6.135 g/cm ³	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:		
Solids content:	97.0%	



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• 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.
- Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- 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.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

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.

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according to 1907/2006/EC, Article 31

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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, IMDG, IATA	UN3077		
14.2 UN proper shipping name ADR	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANC		
IMDG, IATA	SOLID, N.O.S. (copper, carbon) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOL. N.O.S. (copper, carbon)		
14.3 Transport hazard class(es)			
ADR, IATA			
Class	9 Miscellaneous dangerous substances and articles.		
Label	9		
Class	0 Missellensous deveouous substances and auticles		
Label	9 Miscellaneous dangerous substances and articles. 9		
· 14.4 Packing group · ADR, IMDG, IATA	III		
14.5 Environmental hazards:			
Marine pollutant: Special marking (ADR):	No Symbol (fish and tree)		
Special marking (ADR): Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)		
14.6 Special precautions for user Stowage Category	Warning: Miscellaneous dangerous substances and articles. A		



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Stowage Code	SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
· 14.7 Transport in bulk according to Ann	ex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
· Transport category	3
• Tunnel restriction code	E
· UN ''Model Regulation'':	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S. (COPPER, CARBON), 9, III

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture						
	copper	60.3%				
EINECS: 231-159-6	substance with a Community workplace exposure limit					
	carbon	13.2%				
	🚸 Flam. Sol. 1, H228					
	Silica, fused	11.2%				
EINECS: 262-373-8	substance with a Community workplace exposure limit					

· Directive 2012/18/EU

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

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.
- 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 liable for any damage resulting from handling or from contact with the product.

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Relevant phrases	
H228 Flammable solid.	
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	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Inte.	rnational
Carriage of Dangerous Goods by Road)	
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	
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)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Flam. Sol. 1: Flammable solids – Category 1	
* Data compared to the previous version altered.	GI