

Printing date 28.07.2021

Not classified as hazardous according to criteria of Australian Safety and Compensation Council.

Ide	entification
· Pro	oduct identifier
• Art • Rel No	ade name: <u>100nm Spherical Au Nanoparticles - 25ML</u> icle number: N8142307 levant identified uses of the substance or mixture and uses advised against further relevant information available. plication of the substance / the mixture Laboratory chemicals
	tails of the supplier of the safety data sheet nufacturer/Supplier:
710 She Cus	rkinElmer, Inc.) Bridgeport Avenue elton, Connecticut 06484 USA stomerCareUS@perkinelmer.com 3-925-4600
Sup	pplier/Local:
Lvl 530 Gle Mel VIC Aus 1-8 aus • Em CH	^c kinElmer Australia ^c 2, Bldg 5, Brandon Office Park ^c 3-540 Springvale Road ^c 9-540 Springvale Road ^c 0-540 Springvale Road ^c 3150 ^c 3150 ^c 3150 ^c stralia ^c 90-033-391 ^c ales@perkinelmer.com cergency telephone number: ^c EMTREC (within US) 800-424-9300 ^c EMTREC (from outside US) +1 703-527-3887 (call collect) ^c EMTREC (within AU) +(61)-290372994
e Ha	nzard(s) Identification
	essification of the substance or mixture e product is not classified, according to the Globally Harmonised System (GHS).
· GH · Haz · Sig · Haz · Oth The fori · Res	bel elements IS label elements Void zard pictograms Void nal word Void zard statements Void her hazards e product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds maldehydes. sults of PBT and vPvB assessment T. Not applicable
· PB	T: Not applicable. (Contd. on pag



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99.9998%

0.0001%

0.0001%

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· vPvB: Not applicable.

3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.
- · Dangerous components: Void

· Additional Components

7732-18-5 Water

5835-28-9 Carboxylic Acid capping agent

7440-57-5 Gold

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

4 First Aid Measures

- · Description of first aid measures
- General information: No special measures required.
- 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.
- 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: Use fire extinguishing methods suitable to surrounding conditions.
- 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 Not required.

• Environmental precautions:

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

· 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.

7 Handling and Storage

- · Handling:
- **Precautions for safe handling** No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · 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.
- Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.
- · 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.

· 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: Goggles recommended during refilling

9 Physical and Chemical Properties

- · Information on basic physical and chemical properties
- General Information
- Appearance: Form:

Nano Particles in Suspension

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Colour:	Pink	
· Odour:	Characteristic	
· Odour threshold:	Not determined.	
· pH-value:	Not determined.	
 Change in condition Melting point/freezing point: Initial boiling point and boiling range 	Undetermined. 2: 100 °C	
· Flash point:	Not applicable.	
· Flammability (solid, gas):	Not applicable.	
· 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 at 20 •C:	23 hPa	
· Density:	Not determined.	
· 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:		
Water:	100.0 %	
• 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: No further relevant information available.

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· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity
- Primary irritant effect:
- · Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation No irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.
- Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological Information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional ecological information:
- · General notes: Not hazardous for water.
- 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 Smaller quantities can be disposed of with household waste.
- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

· UN-Number		
· ADG, ADN, IMDG, IATA	Void	
· UN proper shipping name		
· ADG, ADN, IMDG, IATA	Void	



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· Transport hazard class(es)	
· ADG, ADN, IMDG, IATA · Class	Void
· Packing group · ADG, IMDG, IATA	Void
• Environmental hazards: • Marine pollutant:	No
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex II o and the IBC Code	o f Marpol Not applicable.
· UN ''Model Regulation'':	Non regulated according to above specifications. Void

15 Regulatory information

·Safety, health and environmental regulations/legislation specific for the substance or mixture					
7732-18-5	Water	99.9998%			
5835-28-9	Carboxylic Acid capping agent	0.0001%			
7440-57-5	Gold	0.0001%			
· Australia:	Priority Existing Chemicals				
None of the	e ingredients is listed.				

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I 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: Generally not 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 Life and Analytical Sciences 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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Contact:	
Within the USA:	1-(800)-762-4000
Outside the USA:	
Abbreviations and	
	n sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internationa
Carriage of Dangerous	
IMDG: International M	aritime Code for Dangerous Goods
IATA: International Air	Transport Association
EINECS: European Inv	entory of Existing Commercial Chemical Substances
ELINCS: European Lis	of Notified Chemical Substances
CAS: Chemical Abstrac	ts Service (division of the American Chemical Society)
PBT: Persistent, Bioace	umulative and Toxic
vPvB: very Persistent a	nd very Bioaccumulative
* Data compared	o the previous version altered.