

Page: 1 of 6 Printed: 08/15/2022 Revision: 08/09/2022 Supersedes Revision: 04/15/2021

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2020/878

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

 1.1
 Product Identifiers:

 Product Name:
 Nanotrap® Extracellular Vesicle Particles

 Synonyms:
 SKU/Cat No.: 55200

1.2 Relevant identified uses of the substance or mixture and uses advised against: Relevant identified uses: Laboratory chemicals

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name:	Ceres Nanosciences	Phone Number:
	9460 Innovation Drive	+1 (800)615-0418
	Manassas, VA 20110 USA	
Web site address:	https://www.ceresnano.com/	

1.4 Emergency telephone number: Emergency Contact: Ceres Nanosciences

+1 (800)615-0418

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:

2.2 Label Elements:

GHS Signal Word: None

Hazard-determining components of labelling:

GHS Hazard Phrases:

No phrases apply.

GHS Precautionary Phrases:

No phrases apply.

GHS Response Phrases:

No phrases apply.

GHS Storage and Disposal Phrases:

No phrases apply.

UFI:

2.3 Adverse Human Health No hazard expected in normal industrial use.

Effects and Symptoms:

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
7732-18-5 ZC0110000	Water na	99.30 - 99.6 %	231-791-2 NA	No GHS classifications apply.
NA NA	Cross-linked poly(N-isopropylacrylamide) hydrogel polymer (Nanotrap® Particle)	0.450 - 0.700 %	NA NA	No GHS classifications apply.

Additional Composition Information:

This product does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.



SECTION 4. FIRST AID MEASURES

4.1 Description of First AidNone that are directly attributable to normal use of this material. **Measures:**

In Case of Inhalation:	Move to fresh air. If not breathing, give artificial respiration. Get medical aid if irritation develops and persists.
In Case of Skin	Wash off with soap and plenty of water. Get medical aid if irritation develops and persists.
Contact:	
In Case of Eye	Flush eyes with water as a precaution. If eye irritation persists, get medical
Contact:	advice/attention.
In Case of Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention/advice if you feel unwell.
Note for the Doctor:	Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

SECTION 5. FIRE FIGHTING MEASURES

- 5.1 Suitable Extinguishing Use water spray, dry chemical, carbon dioxide, or appropriate foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- 5.2 Flammable Properties No data available.
- and Hazards:
 - Hazardous Combustion Fire conditions can result in the formation of carbon monoxide and carbon dioxide, andProducts:oxides of: nitrogen.
 - Flash Pt:NAMethod Used:Not Applicable
 - Explosive Limits: LEL: No data. UEL: No data.
 - Autoignition Pt: NA
- 5.3Fire Fighting
Instructions:As in any fire, wear a self-contained breathing apparatus in pressure-demand,
MSHA/NIOSH approved (or equivalent), and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Protective Precautions, Use proper personal protective equipment as indicated in Section 8.
 Protective Equipment and Emergency Procedures:
 6.2 Environmental Precautions:
 6.3 Methods and Material Ensure adequate ventilation. Soak up with inert absorbent material. Keep in suitable,
- For Containment and closed containers for disposal. Cleaning Up:

		SECTION 7. HANDLING AND STORAGE
7.1	Precautions To Be Taken in Handling:	Avoid contact with skin and eyes. Do not ingest or inhale.
7.2	Precautions To Be Taken in Storing:	Store in a cool, dry place. Keep container tightly closed in a dry and well-ventilated place.
	Other Precautions:	Keep out of reach of children. Handle in accordance with good industrial hygiene and safety practices.



SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 **Exposure Parameters:**
- 8.2 **Exposure Controls:**
- 8.2.1 Engineering Controls Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility, and a safety shower (Ventilation etc.): is recommended.

8.2.2 Personal protection equipment:

	Eye Protection:	Safety glasses.	
	Protective Gloves:	Wear appropriate gloves to prevent skin exposure.	
	Other Protective	Wear appropriate protective clothing to prevent skin exposure.	
	Clothing:		
	Respiratory Equipment Not required under normal conditions of use with adequate ventilation.		
	(Specify Type):		
	Work/Hygienic/Mainten	Handle in accordance with good industrial hygiene and safety practice. Wash hands	
	ance Practices:	before breaks and at the end of workday.	
8.2.3	Environmental	Do not flush into sewers or natural waterways.	
	Exposure Controls:		

No data available. **Exposure Scenarios:**

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties 9.1 **Physical States:** []Gas [X] Liquid [] Solid Appearance: Red. Liquid. Appearance and Odor: Odor: None reported. pH: 8.5 - 10.5 96.1 C (205 F) **Melting Point: Boiling Point:** NA Flash Pt: NA Method Used: Not Applicable Not available **Evaporation Rate: Saturated Vapor** Not available **Concentration:** Flammability (solid, gas): No data available. **Explosive Limits:** LEL: No data. UEL: No data. Vapor Pressure (vs. Air or Not available mm Hg): Not available Vapor Density (vs. Air = 1): Not available Specific Gravity (Water = 1): Not available **Density:** 0.99 - 1.01 G/ML Solubility in Water: Miscible **Octanol/Water Partition** No data. **Coefficient:** Autoignition Pt: NA No data. Decomposition **Temperature:**



Page: 4 of 6 Printed: 08/15/2022 Revision: 08/09/2022 Supersedes Revision: 04/15/2021

Viscosity:

9.2 Other Information

9.2.1 Information with regard to physical hazard classes Information with regard to primary physical hazard:

Not available

9.2.2 Other safety characteristics

SECTION 10. STABILITY AND REACTIVITY

10.1	Reactivity:	Not reactive at normal temperatures and pressures.		
10.2	Stability:	Unstable [] Stable [X]		
10.3	Conditions To Avoid -	No data available.		
	Hazardous Reactions:			
	Possibility of	Will occur [] Will not occur [X]		
	Hazardous Reactions:			
10.4	Conditions To Avoid -	Stable under normal conditions.		
	Instability:			
10.5	Incompatibility -	None known.		
	Materials To Avoid:			
10.6	Hazardous	Fire conditions can result in the formation of carbon monoxide and carbon dioxide, and		
	Decomposition or	oxides of: nitrogen.		
	Byproducts:			
	SECTION 11. TOXICOLOGICAL INFORMATION			
11.1	Information on	Epidemiology: No information available.		
	Toxicological Effects:	Teratogenicity: No information available.		
		Reproductive Effects: No information available.		
		Mutagenicity: No information available.		
		Neurotoxicity: No information available.		
	Irritation or Corrosion:	Not classified.		
	Symptoms	Eye Contact: May cause eye irritation if product contacts eyes.		
	related to Toxicological Skin Contact: No adverse effects are expected.			
	Characteristics:			
	Inhalation: Not a likely route of exposure.			
	Carcinogenicity/Other			
0	Information:	identified as a probable or human carcinogen by IARC, NTP, or OSHA.		
Carci	Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No			

SECTION 12. ECOLOGICAL INFORMATION

12.1	Toxicity:	Environmental: No information available. Physical: No information available.
12.2	Persistence and	No data available.
	Degradability:	
12.3	Bioaccumulative	No data available.
	Potential:	
12.4	Mobility in Soil:	No data available.
12.5	Results of PBT and	No data available.
	vPvB assessment:	
12.6	Other adverse effects:	No data available.



SECTION 13. DISPOSAL CONSIDERATIONS 13.1 Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state, and local environmental regulations.

SECTION 14. TRANSPORT INFORMATION

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not regulated as a hazardous material. UN Number:

Hazard Class:

SECTION 15. REGULATORY INFORMATION

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7732-18-5	Water	No	No	No
NA	Cross-linked poly(N-isopropylacrylamide) hydrogel polymer (Nanotrap® Particle)	No	No	No
CAS # Hazardous Components (Chemical Name) Other US EPA or Stat		r State Lists	ate Lists	
7732-18-5	Water	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No		
NA	Cross-linked poly(N-isopropylacrylamide) hydrogel polymer (Nanotrap® Particle)	TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No		
CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists		
7732-18-5	Water	Australia ICS: Yes; New Zealand IOC: Yes; Switzerland Giftliste 1: No; Switzerland INNS: No; REACH: Yes - 01-2120888954-31: Full, (P)		
NA	Cross-linked poly(N-isopropylacrylamide) hydrogel polymer (Nanotrap® Particle)	Australia ICS: No; New Zealand IOC: No; Switzerland Giftliste 1: No; Switzerland INNS: No; REACH: No		

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists



SECTION 16. OTHER INFORMATION 08/09/2022 **Revision Date:** Flammability Instability Hazard Rating System: n 0 Health NFPA: Special Hazard Additional Information: 08/09/2022 Updated section(s) 2,3,4,8,11 08/09/2022 - Updated SDS to new format. **Company Policy or** Information presented herein is believed to be accurate and reliable to the best of our knowledge. However, we make no warranty or merchantability or any other warranty, **Disclaimer:** express or implied, with respect to such information, and we assume no liability resulting from its use. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process. Users should make their own investigations to determine the suitability of the information for their particular purposes.