

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Nanotrap® Extracellular Vesicle B Particles	Phone Number:	+1 (800)615-0418
Company Name:	Ceres Nanosciences 9460 Innovation Drive Manassas, VA 20110		
Web site address:	https://www.ceresnano.com/		+1 (800)615-0418
Emergency Contact:	Ceres Nanosciences		
Intended Use:	Laboratory chemicals		
Synonyms:	SKU/Cat No.: 55202		

2. HAZARDS IDENTIFICATION

GHS Signal Word: **None**

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.

OSHA Regulatory Status: While this material is not classified as hazardous under OSHA regulations, this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Potential Health Effects (Acute and Chronic): No hazard expected in normal industrial use.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration	
7732-18-5	Water	99.30 - 99.55 %	
NA	Hydrogel polymer coupled to paramagnetic particles (Nanotrap® Particle)	0.450 - 0.700 %	

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.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:	None that are directly attributable to normal use of this material.
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 Contact:	Wash off with soap and plenty of water. Get medical aid if irritation develops and persists.
In Case of Eye Contact:	Flush eyes with water as a precaution. If eye irritation persists, get medical 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 to Physician:	Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

5. FIRE FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures:	Use proper personal protective equipment as indicated in Section 8.
Environmental Precautions:	Do not flush into sewers or natural waterways.
Steps To Be Taken In Case Material Is Released Or Spilled:	Ensure adequate ventilation. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:	Do not ingest or inhale. Do not get in eyes, on skin or clothing. Avoid ingestion and inhalation.
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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	<input type="checkbox"/> Gas <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid
Appearance and Odor:	Appearance: Brown. Liquid. Odor: None reported.
pH:	6 - 11.5
Melting Point:	205 F (96.1 C)
Boiling Point:	NA
Flash Pt:	NA Method Used: Not Applicable
Evaporation Rate:	Not available
Flammability (solid, gas):	No data available.
Explosive Limits:	LEL: No data. UEL: No data.
Vapor Pressure (vs. Air or mm Hg):	Not available
	Not available
Vapor Density (vs. Air = 1):	Not available
Specific Gravity (Water = 1):	Not available
Density:	1.005 G/ML
Solubility in Water:	Miscible
Saturated Vapor Concentration:	Not available
Octanol/Water Partition Coefficient:	No data.
Autoignition Pt:	NA
Decomposition Temperature:	No data.
Viscosity:	Not available

10. STABILITY AND REACTIVITY

Reactivity:	Not reactive at normal temperatures and pressures.
Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	Stable under normal conditions.
Incompatibility - Materials To Avoid:	None known.
Hazardous Decomposition or Byproducts:	Fire conditions can result in the formation of carbon monoxide and carbon dioxide, and oxides of: nitrogen.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological Information:	Epidemiology: No information available. Teratogenicity: No information available. Reproductive Effects: No information available. Mutagenicity: No information available. Neurotoxicity: No information available.
Irritation or Corrosion:	Not classified.
Symptoms related to Toxicological Characteristics:	Eye Contact: May cause eye irritation if product contacts eyes. Skin Contact: No adverse effects are expected. Ingestion: Not a likely route of exposure. May be harmful if swallowed. Inhalation: Not a likely route of exposure.
Carcinogenicity/Other Information:	No component of this product is present at levels greater than or equal to 0.1% that is identified as a probable or human carcinogen by IARC, NTP, or OSHA.
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION

General Ecological Information:	Environmental: No information available. Physical: No information available.
Results of PBT and vPvB assessment:	No data available.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.

13. DISPOSAL CONSIDERATIONS

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.
-------------------------------	---

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not regulated as a hazardous material.

DOT Hazard Class:

UN/NA Number:

15. REGULATORY INFORMATION

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

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7732-18-5	Water	No	No	No
NA	Hydrogel polymer coupled to paramagnetic particles (Nanotrap® Particle)	No	No	No

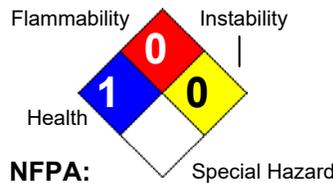
CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
7732-18-5	Water	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
NA	Hydrogel polymer coupled to paramagnetic particles (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

16. OTHER INFORMATION

Revision Date: 03/13/2023

Previous revision: 08/09/2022

Hazard Rating System:



Additional Information: 08/09/2022 Updated section(s) 2,3,4,8,11
 08/09/2022 - Updated SDS to new format.
 03/13/2023 - Updated product name to Extracellular Vesicle B Particles

Company Policy or Disclaimer:

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, 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.