

Material Safety Data Sheet

Section 1: Identification of the Substance or Mixture

Product Code: 100558

Product Name: Anti-EpCAM [VU-1D9] CTC Enrichment Beads

For Research Use Only in conjunction with Revolution CTC Enrichment Kit (Epithelial Origin)

Details of the supplier of the material safety data sheet



Address: 15339 Barranca Parkway
Irvine, CA 92618 USA

Phone: +1.949.341.1980

Fax: +1.949.341.1982

Support: info@nrichdx.com

Website: www.nrichdx.com

24 hour Emergency Response for Hazardous Materials [or Dangerous Goods] Incident, or Accident: Call CHEMTREC +1-800-424-9300 and +1 703-527-3887

Section 2: Hazards Identification

GHS Classification

Signal Word: None

Hazard pictograms: None

Health Hazards: Not Hazardous

Physical Hazards: Not Hazardous

Environmental Hazards: Not Hazardous

Hazard Statements

Not Applicable

Precautionary Statements

Prevention: Not Applicable

Response: Not Applicable

Storage: Not applicable

Disposal: Not applicable

Other hazards: Not applicable

HMIS:

Health: 0

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Flammability: 0
Reactivity: 0

Section 3: Composition/Information on Ingredients

Hazardous / Non-hazardous Components

<u>Item#</u>	<u>Name</u>	<u>CAS#</u>	<u>Weight %</u>
1	Iron Oxide (Fe ₃ O ₄)	1317-61-9	<0.01
2	Sodium Azide (NaN ₃)	26628-22-8	0.09
3	Antibody	None	<0.001
4	BSA	9048-46-8	0.1
5	Sodium Chloride	7647-14-5	0.85
6	Sodium Phosphate Buffer	None	<0.1
7	Water, distilled	7732-18-5	98.76

Section 4: First Aid Measures

Description of First Aid Measures

Skin contact: Rinse with plenty of water. Immediate medical attention is not required.

Eye contact: Rinse cautiously with water for several minutes, including under the eyelids. Remove contact lenses, if present and easy to do.

Ingestion: Clean mouth with water.

Inhalation: Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

Notes to physician: Treat symptomatically.

Most important symptoms and effects, both acute and delayed: Not Applicable

Indication of any immediate medical attention and special treatment needed: None

Section 5: Firefighting Measures

Suitable extinguishing media: No information available.

Unsuitable extinguishing media: No information available.

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Special hazards arising from the substance or mixture: No information available.

Advice for fire-fighters: No information available.

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures Use personal protection equipment. Soak up with inert absorbent material.

Environmental precautions:

No special environmental precautions required.

Methods and material for containment and cleaning up:

Soak up with inert absorbent material.

Reference to other sections: See sections 8 and 13.

Section 7: Handling and Storage

Precautions for safe handling:

Use personal protective equipment as required. No special handling advice is necessary.

Conditions for safe storage, including any incompatibilities:

Store refrigerated at 4-8°C. Do not freeze.

Specific end use(s):

For Research Use Only in conjunction with Revolution CTC Enrichment Kit (Epithelial Origin)

Section 8: Exposure Controls/Personal Protection

Control Parameters

Exposure limits: Contains no substances with occupational exposure limit values.

Engineering measures: Ensure adequate ventilation, especially in confined areas.

Exposure Controls

Respiratory protection: In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

Hand protection: Wear suitable gloves.

Eye protection: Safety glasses with side-shields.

Skin and Body Protection: Wear suitable protective clothing.

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Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls:
Prevent product from entering drains.

Section 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Appearance:	Brown opaque liquid.
Odor:	No data available
Odor Threshold:	No data available
Molecular weight:	No data available
Melting point/melting range:	0°C 32°F
Boiling point/boiling range:	100°C 212°F No data available
Flash point:	°C No data available °F No data available
Autoignition temperature:	°C No data available °F No data available
Decomposition temperature:	°C No data available °F No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available.
Upper explosion limit:	No data available.
Lower explosion limit:	No data available.
Vapor pressure:	No data available.
Relative density:	No data available.
Specific gravity:	1
Solubility:	Dispersible.
Partition coefficient n-octanol/water:	No data available.
Viscosity:	No data available.
Explosive properties:	Mixture has not been tested.
Oxidizing properties:	No data available.
Other information:	No data available.

Section 10: Stability and Reactivity

Chemical stability:	Stable under normal conditions.
Reactivity:	None known.
Possibility of hazardous reactions:	Hazardous reaction has not been reported.
Conditions to avoid:	No information available.
Incompatible materials:	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products:	No data available.
Polymerization:	Hazardous polymerization will not occur.

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Section 11: Toxicological Information

Information on Toxicological Effects:

Chemical Name

LD50 (oral, rat/mouse) LD50 (dermal, rat/mouse) LD50 (inhalation, rat/mouse)

Iron Oxide	No data	No data	No data
Sodium Azide	27 mg/kg (Rat)	20 mg/kg (Rabbit)	No data
Sodium Chloride	No data	No data	No data
Water	No data	No data	No data

Physical Routes of Exposure

Irritation:	Data are conclusive but not sufficient for classification.
Corrosivity:	Data are conclusive but not sufficient for classification.
Sensitization:	Data are conclusive but not sufficient for classification.
STOT – Single Exposure:	Data are conclusive but not sufficient for classification.
STOT – Repeated Exposure:	Data are conclusive but not sufficient for classification.
Carcinogenicity:	Data are conclusive but not sufficient for classification.
Germ cell mutagenicity:	Data are conclusive but not sufficient for classification.
Reproductive toxicity:	Data are conclusive but not sufficient for classification.
Aspiration hazard:	Data are conclusive but not sufficient for classification.

Section 12: Ecological Information

Ecotoxicity:

Contains no substances known to be hazardous to the environment or not degradable in waste-water treatment plants.

Persistence and degradability:	No information available.
Bioaccumulative potential:	No information available.
Results of PBT and vPvB assessment:	This mixture does not contain any substances that are assessed to be a PBT or vPvB.
Other adverse effects:	No information available.

Section 13: Disposal Considerations

Waste Treatment Methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this

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product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Components in the products listed by CAS code number in reference to 40 CRF Part 261.33 may be subject to special federal and state disposal regulations. Dispose of in compliance with all Federal, State, and Local Regulations if no codes are listed.

CAS#	Waste Code	Regulated Name
1317-61-9	Not listed	Iron Oxide (Fe ₃ O ₄)
26628-22-8	P105	Sodium Azide (NaN ₃)
7647-14-5	Not listed	Sodium Chloride
7732-18-5	Not listed	Water, distilled

Section 14: Transport Information

IAT/ADR/DOT-US/IMDG: Not regulated in the meaning of transport regulations.

UN number: Not Applicable.

UN proper shipping name: Not Applicable.

Transport hazard class(es): Not Applicable.

Packing group: Not Applicable.

Environmental hazards: Not Applicable.

Special precautions for user: Not Applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not Applicable.

Section 15: Regulatory Information

US Federal Regulations

SARA 313 Components

SARA 313: This material does not contain any chemical components with know CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARE Title III, Section 313.

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Chemical Name	CAS No.	Weight %
Sodium Azide	26628-22-8	<0.1

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CRF61)

This product does not contain HAPs.

U.S. State Regulations

Massachusetts Right to Know Components

Sodium Azide	CAS# 26628-22-8	Listed
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Pennsylvania Right to Know Components

Sodium Azide	CAS# 26628-22-8	Listed
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Rhode Island Right to Know Components

Sodium Azide	CAS# 26628-22-8	Listed
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California Proposition 65

This product does not contain any chemicals know to the State of California to cause cancer, birth defects, or any other reproductive harm.

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WHMIS hazard class:

Non-controlled.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Section 16: Other Information

Use: For Research Use Only

References:

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>
- LOLI database: <https://www.chemadvisor.com/loli-database>

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

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End of Safety Data Sheet