

Report No.: GD2026364

MATERIAL SAFETY DATA SHEET (MSDS)

Product Name: Epitope Restrieval Solution I

Product Model: I

Trade Mark: CELNOVTE

Prepared For: Henan Celnovte Biotechnology Co., Ltd.

Address : No.1 Cuizhu Street, Bldg109,
High-tech District , Zhenzhou,
HeNan, China

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MATERIAL SAFETY DATA SHEET

Section 1 Chemical Product and Company Identification

Product name	Epitope Restrieval Solution I
Model	I
Manufacturer	Henan Celnovte Biotechnology Co., Ltd.
Address	No.1 Cuizhu Street,Bldg109, High-tech District , Zhenzhou, HeNan, China
Post Code	450000
Tel	+86-37156596939
Fax	
E-mail	eathansuen@sina.com
Information in case of emergency	
Contact	SUN YI
Mobile phone	+86-15506588787

Section 2 Hazards Identification

GHS Classification	Skin corrosion / irritation, Category 2 Eye irritation, Category 2 Skin sensitization, Category 1
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GHS Label Elements
Symbol(s)



Signal Words
Hazard Statement

Warning
HEALTH HAZARDS:
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
ENVIRONMENTAL HAZARDS:
Not classified as an environmental hazard under GHS criteria.

GHS Precautionary Statements
Prevention

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking.
P233: keep container tightly closed.
P240: Ground/bond container and receiving equipment
P241: Use explosion-proof electrical/ventilating/light/.../equipment
P242: Use only non-sparking tools
P243: Take precautionary measures against static discharge
P261: Avoid breathing dust/fume/gas/mist/vapours/spray
P264: Wash hand and face thoroughly after handling
P270: Do not eat, drink or smoke when using this product
P271: Use only outdoors or in a well-ventilated area
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to environment.
P280: Wear protective gloves/protective clothing/eye

Response	protection/face protection
	P284: Wear respiratory protection
	P302+P352: IF ON SKIN: Wash with soap and water
	P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
	P333+P313: If skin irritation or rash occurs: Get medical advice / attention.
	P337+P313: If eye irritation persists: Get medical advice / attention.
	P362: Take off contaminated clothing and wash before reuse
Storage	P391: Collect spillage.
	P403+P235: Store in a well ventilated place. Keep cool
Disposal	P405: Store locked up
	P501: Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations.

Section 3 Composition/Information on Ingredient

Substance / Mixture Composition	Mixture CAS No.	Weight %
Citric acid	5949-29-1	0.04%
Trisodium citrate dihydrate	6132-04-3	0.24%
Glyceol	56-81-5	9.50%
Surfactant	9005-64-5	0.02%
preservative	96118-96-6	0.10%
Water	7732-18-5	90.1%

Section 4 First Aid Measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician
Skin contact	Take off contaminated clothing and wash before reuse. Wash with soap and water. Immediately call a POISON CENTER or doctor/physician.
Eye contact	Rinse continuously with water for 15 minutes. Remove contact lenses if present and easy to do continue rinsing. Immediately call a POISON CENTER or doctor/physician.
Ingestion	Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
Protection of first-aiders	A rescuer should wear personal protective equipment, such as protective clothing, gloves, shoes and positive pressure respirator.

Section 5 Fire Fighting Measures

Specific hazards	This product is pungent smell, Harmful to respiratory tract and skin
Auto-Ignition Temperature	No data available

Flash point	No data available
Explosive Limits:	No data available
Hazardous decomposition materials (under fire condition)	Carbon dioxide, carbon monoxide
Suitable extinguishing media	Water, foam, dry chemical, carbon dioxide.
Unsuitable Extinguishing Media	Do not use water in a jet.
Specific methods	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.
Special protective equipment for firefighters	When extinguishing fire, be sure to wear personal protective equipment.

Section 6 – Accidental Release Measures

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

Personal precautions, protective equipment and emergency procedures:	Use extra personal protective equipment (full protective clothing, protective gloves and shoes, self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to noninvolved personnel should be controlled around the leakage area by roping off, etc.
Environmental precautions	Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers.
Methods and materials for containment and cleaning up	Evacuate danger area! Consult an expert! Ventilation. Remove all ignition sources. Collect leaking liquid in sealable containers. Absorb remaining liquid in dry sand or inert absorbent and remove to safe place. Chemical protection suit including self-contained breathing apparatus. Do NOT let this chemical enter the environment.
Additional Advice	Local authorities should be advised if significant spillages cannot be contained

Section 7 – Handling and Storage

Handling	Use appropriate, approved safety equipment. Untrained individuals should not handle this chemical or its container. Use with adequate ventilation. Wash hand and face thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid all contact!
Storage	Store at 2°C-8°C and avoid direct sunlight exposure. The validity period is 12 months. Occasionally, slight precipitation may be seen, and it will be dissolved after dilution. Do not use it after the expiration date on the label of the reagent bottle. The diluted cleaning solution working solution is stored at 2°C-8°C. Keep container tightly closed. Store in a cool, dark and well-ventilated place, away from all sources of ignition. Keep container tightly closed and sealed until ready for use. Store away from incompatible

materials such as strong oxidizing agents.

Section 8 – Exposure Controls, Personal Protection

Engineering controls	The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.	
Exposure limits		
Composition	OSHA PEL	ACGIH TLV
Alkyd resin	No data available	No data available
Butyl ester	No data available	No data available
Auxiliaries	No data available	No data available
Personal protective equipment		
Respiratory protection	Full facepiece respirator, self-contained breathing apparatus (SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.	
Hand protection	Impervious gloves.	
Eye / Face protection	Safety goggles. A face-shield, if the situation requires.	
Skin and body protection:	Fully protective clothing and shoes.	

Section 9 Physical and Chemical Properties

Physical appearance(20°C)	colorless, Liquid,
Odor	odorless
Odor threshold	No data available
pH	5.9-6.1 (25°C)
Boiling point/range	No data available
Melting point/range	No data available
Flash Point	No data available
Explosion Limits	No data available
Ignition Temperature	No data available
Vapour Pressure	No data available
Vapour Density(air=1)	No data available
Density	No data available
Solubility	Soluble in water

Section 10 Stability and Reactivity

Stability	Stable under proper conditions.
Reactivity	No special reactivity has been reported.
Conditions to avoid	Heat, sources of ignition
Incompatible materials	Strong oxidizers
Hazardous decomposition products	Carbon dioxide, carbon monoxide

Section 11 Toxicological Information

Acute Toxicity	No data available
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes eye irritation.
Respiratory Irritation	May cause respiratory irritation.
Respiratory or Skin Sensitisation	May cause an allergic skin reaction.
Aspiration Hazard	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity	No data available
IARC =	No data available
NTP =	No data available
Reproductive toxicity	No data available

Section 12 Ecological Information

Ecotoxicity	No data available
Persistence/ degradability	No data available
Bioaccumulative potential (BCF)	No data available
Mobility in soil	No data available

Section 13 Disposal Considerations

Material Disposal	Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.
Container Disposal	Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.
Local Legislation	Disposal should be in accordance with applicable regional, national, and local laws and regulations. Hazardous Waste.

Section 14 Transport Information

Land transport (as per ADR/RID classification)

This substance is not classified as dangerous under ADR/RID regulations.

Inland waterways transport (ADN)

This substance is not classified as dangerous under ADN regulations.

Sea transport (IMDG)

This substance is not classified as dangerous under IMDG regulations.

Air transport (IATA)

This substance is not classified as dangerous under IATA regulations.

DOT (US)

This substance is not classified as dangerous under DOT regulations.

Section 15 – Regulatory Information

Safe management ordinance of dangerous chemical product (State Council announces on January 26, 2002): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

Applicable regulations

Chemical Hazardous Materials Safety Management Regulations (promulgated by the State Council on February 17, 1987), Chemical Hazardous Materials Safety Management Regulations Implementation Rules (Chemical Labor Development [1992] 677), regulations on the safe use of chemicals in the workplace ([1996] No. 423 of the Ministry of Labor Affairs) and other regulations, have made corresponding regulations on the safe use, production, storage, transportation, loading and unloading of chemical dangerous goods.

For details regulations you should contact the appropriate agency in your country.

Section 16 – Additional Information

This MSDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

— END OF REPORT —