

Report No.: GD21106256

MATERIAL SAFETY DATA SHEET (MSDS)

Product Name: Acid-fast staining solution

Product Model: Alkaline complex red application
solution (Liquid A)
10ml*4, 50ml*4, 100ml*4,
250ml*4, 500ml*4

Trade mark: CELNOVTE

Prepared For: Henan Celnovte Biotechnology
Co., Ltd.

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High-tech District , Zhenzhou,
HeNan, China

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MATERIAL SAFETY DATA SHEET

Section 1 Chemical Product and Company Identification

Product name Acid-fast staining solution
Methylene blue counterstain solution (Liquid C)

Manufacturer Henan Celnovte Biotechnology Co., Ltd.

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Section 2 Hazards Identification

GHS Classification Skin corrosion / irritation, Category 2
Eye irritation, Category 2
Skin sensitization, Category 1

GHS Label Elements

Symbol(s) 

Signal Words Danger

Hazard Statement **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.

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|-----------------|--|
| Response | <p>P273: Avoid release to environment.</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection</p> <p>P284: Wear respiratory protection</p> <p>P302+P352: IF ON SKIN: Wash with soap and water</p> <p>P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing</p> <p>P333+P313: If skin irritation or rash occurs: Get medical advice / attention.</p> <p>P337+P313: If eye irritation persists: Get medical advice / attention.</p> <p>P362: Take off contaminated clothing and wash before reuse</p> <p>P391: Collect spillage.</p> |
| Storage | <p>P403+P235: Store in a well ventilated place. Keep cool</p> <p>P405: Store locked up</p> |
| Disposal | <p>P501: Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations.</p> |

Section 3 Composition/Information on Ingredient

| Substance / Mixture | Mixture | |
|---------------------|-----------|----------|
| Composition | CAS No. | Weight % |
| Methylene blue | 61-73-4 | 0.15% |
| 95%Ethanol | 64-17-5 | 5% |
| Potassium hydroxide | 1310-58-3 | 0.01% |
| Water | 7732-18-5 | 94.84% |

Section 4 First Aid Measures

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|-----------------------------------|---|
| 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

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|-------------------------|--|
| Specific hazards | This product is pungent smell, Harmful to respiratory tract and skin |
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| 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.

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| 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

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| 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 | 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) | Blue, Liquid, |
| Odor | Odorless |
| Odor threshold | No data available |
| pH | No data available |
| 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 | <1 |
| Solubility | Insoluble in water |

Section 10 Stability and Reactivity

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|---|--|
| 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

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|--------------------------------------|-------------------------|
| 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

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|---------------------------|--|
| 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

UN Classification

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|----------------------|---|
| Proper shipping name | Methylene blue counterstain solution (Liquid C) |
| Hazards Class | 3 |
| Subsidiary Risks | Not applicable |
| UN-No. | UN1263 |
| Packing group | II |

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.

The list of a dangerous chemical(2002)/CN-No.: 32198

NFPA Hazard Classification

| | |
|--------------|---|
| Health | 1 |
| Flammability | 3 |

Reactivity 1

US TSCA listed

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

May Causes skin irritation.&Causes eye irritation.

EC Risk Phrases

R 36/38

Irritating to eyes and skin

R 43

May cause sensitization by skin contact.

EC Safety Phrases

S 1/2

Keep locked up and out of reach of children

S 16

Keep away from sources of ignition-no smoking

S 26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 27/28

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

S 36/37/39

Wear suitable protective clothing, gloves and eye/face protection.

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 —