

Safety Data Sheet

Section 1: Chemical Product and Company Identification

Product Name: MTT Cell Proliferation and Cytotoxicity Assay Kit

Product Code: abs50010

Intended Use: Laboratory assay reagent for cell proliferation and cytotoxicity detection, for in vitro research use only. Not applicable for clinical diagnosis or human and animal treatment

Supplier: Absin (Shanghai) Biotechnology Co., Ltd.

Address: 2nd Floor, NO.18 Building, Shenjiang Hi-tech Park, No.15 Gudan Road, Pudong, Shanghai, China, 201314.

Emergency Telephone: +86 21 3893 9014

Section 2: Hazards Identification

GHS Classification:

Signal Word: None

Pictograms: None

Health hazards: Not hazardous

Physical hazards: Not hazardous

Environment 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

Section 3: Composition/Information on Ingredients

Active Ingredient: MTT

CAS Number: None

Other Components: Isotonic phosphate buffer solution

Section 4: First Aid Measures

Inhalation: Accidental inhalation of minor aerosol will not cause obvious discomfort. If persistent cough or throat itching occurs, move to fresh air environment and seek medical support if symptoms persist.

Skin Contact: Remove contaminated clothing. Wash thoroughly with soap and water.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Seek medical advice.

Ingestion: Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Dry chemical, CO₂, water spray.

Hazardous Combustion Products: May release irritant fumes under fire conditions.

Protective Equipment for Firefighters: Self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

Personal Precautions: Wear gloves, goggles, mask, and lab coat.

Cleanup Methods:

Small spills: Absorb with inert material and place in a sealed container. Treat as biohazard waste.

Large spills: Isolate area and contact professional waste disposal service.

Section 7: Handling and Storage

Handling: Use in a biosafety cabinet or fume hood. Avoid contact with skin or inhalation of aerosols.

Storage: Keep tightly closed. Store at 2~8°C until use.

Additional information: See product data sheet for more information on handling and storage.

Section 8 Exposure Controls/Personal Protection

Control parameters: Contains no substances with occupational exposure limit values.

Engineering controls: Ensure adequate ventilation. Use appropriate personal protective work clothing.

Personal precautions:

www.absin.net

E-mail: worldwide@absin.cn

Eye: Wear appropriate eye protection.

Skin: Wear clothing and gloves that cannot be penetrated by chemicals or oil.

Inhalation: Respiratory equipment is not required.

Section 9: Physical and Chemical Properties

Description of chemical and physical properties:

Appearance:

Component A: MTT, white powder

Component B: MTT Solvent, colourless clear solution

Component C: Formazan Dissolving Solution, colourless clear solution

Odor: None

pH: Not available

Vapor pressure: Not available

Vapor density: Not available

Boiling point: Not available

Melting/freezing point: Not available

Flash point UEL/LEL: None established

Evaporation rate: Undetermined

Flammability: Non-flammable material

Solubility: Not available

Specific gravity (water = 1): Not available

Volatile %: Not available

Water content: Not available

Decomposition Temperature: Not available

Autoignition Temperature: None established

VOC content: Not available

Viscosity: Not available

Section 10 Stability and Reactivity

Stability: Stable under recommended storage conditions. Avoid exposure to high temperatures (37°C), strong oxidizers, or acids/bases.

Incompatible Materials: Oxidizing agents, strong acids, strong bases.

Section 11 Toxicological Information

No acute toxic effects have been identified under normal laboratory handling conditions.

Skin Irritation: Long-term or repeated contact can damage the lipid barrier on the skin surface, leading to dryness, roughness, itching, and even contact dermatitis; high-concentration EDTA can cause mild corrosion to the skin, resulting in epidermal damage, redness, swelling, and pain.

Respiratory Irritation: Long-term inhalation of low-concentration EDTA dust or aerosols can cause chronic respiratory irritation, resulting in symptoms such as chronic pharyngitis and bronchitis, and the risk increases when ventilation is poor in the experimental scenario.

Mucosal Irritation: After eye contact, it will strongly irritate the conjunctiva and cornea, causing conjunctival hyperemia, edema, pain, lacrimation, and in severe cases, may damage the corneal epithelium and affect eyesight; after contact with oral and nasal mucosae, it will cause mucosal redness, swelling, and stinging, leading to discomfort.

Section 12 Ecological Information

Environmental Impact: Not Hazardous.

Section 13 Disposal

Disposal Method: Treat as biohazard waste or dispose via licensed chemical waste contractor.

Section 14 Transportation Information

Transport Classification: Not regulated/ Non-hazardous

UN Number: Not applicable.

DOT: Not regulated

TDG: Not regulated

IMDG/IATA: Not regulated

Part 15 Regulatory Information

China Compliance: This product is not regulated by *Regulations on Safe Management of Hazardous Chemicals*.

Part 16 Other Information

Revision Date: 2026/09/2

Disclaimer: This SDS is provided for guidance only. Users must adapt safety protocols to their specific conditions.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide to safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text