

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Creation Date: 2020/05/15

Revision Date: 2023/06/20

Version: 1.1

1. Identification

Product identifier

Product name CellCount™ MTT Assay Kit
 Product number CC01-11 / CC01-12 / CC01-51 / CC02-52
 Recommended use Biochemical reagent for research use only

Details of the supplier of the safety data sheet

Manufacture / Supplier Energenesis Biomedical Co., Ltd.
 Address 6F-3, No.21, Ln. 583, Ruiguang Rd., Neihu Dist.
 Taipei City 114, Taiwan
 Phone +886-2-2627-0835
 Fax +886-2-2627-0836

Emergency telephone number +886-2-2627-0835

2. Hazard(s) identification

Classification of the substance or mixture Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008 [CLP]

Label elements Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008 [CLP]

Other hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Composition/information on ingredients

Substance/mixture Mixture

Component	Description	Content
MTT Reagent	contains 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide	CC01-11 / CC01-12: 5 mg x 10 CC01-51 / CC01-52: 5 mg x 50
MTT Solvent	contains Dimethyl sulfoxide	CC01-12: 100 mL x 1 CC01-52: 100 mL x 5

CAS No. EC No. Index No.	Component Name Synonyms	1272/2008 (CLP)	Percent
298-93-1 206-069-5 —	3-(4,5-dimethylthiazol-2-yl)- 2,5-diphenyltetrazolium bromide	Not a hazardous substance or mixture	98-101
67-68-5 200-664-3 —	Dimethyl sulfoxide	Not a hazardous substance or mixture	98-101

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Additional information	For the full text of the H-Statements mentioned in this Section, see Section 16.
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4. First aid measures

Description of first aid measures

Eye Contact	Flush eyes with water as a precaution
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Skin Contact	Wash off with soap and plenty of water.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

No data available

5. Firefighting measures

Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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Special hazards arising from the substance or mixture

No data available

Advice for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and material for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

7. Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be

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Specific end use(s)	carefully resealed and kept upright to prevent leakage. Protect from light. Recommended storage temperature: 2-8 °C
	Apart from the uses mentioned in section 1 no other specific uses are stipulated.

8. Exposure controls/personal protection

Control parameters	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice.
Personal protective equipment	
Eye protection	Wear chemical safety goggles. An eye wash station must be available where this product is used.
Skin and body protection	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
Hand protection	Wear chemically resistant gloves, Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Have a safety shower available.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	<table border="1"> <thead> <tr> <th></th> <th>Form</th> <th>Color</th> </tr> </thead> <tbody> <tr> <td>MTT Reagent</td> <td>solid</td> <td>dark yellow</td> </tr> <tr> <td>MTT Solvent</td> <td>liquid</td> <td>clear</td> </tr> </tbody> </table>		Form	Color	MTT Reagent	solid	dark yellow	MTT Solvent	liquid	clear
	Form	Color								
MTT Reagent	solid	dark yellow								
MTT Solvent	liquid	clear								
Odour	No data available									
Odour Threshold	No data available									
pH	No data available									
Melting point/freezing point	<table border="1"> <thead> <tr> <th></th> <th>°C</th> <th>°F</th> </tr> </thead> <tbody> <tr> <td>MTT Reagent</td> <td>195</td> <td>383</td> </tr> <tr> <td>MTT Solvent</td> <td>16-19</td> <td>60-66</td> </tr> </tbody> </table>		°C	°F	MTT Reagent	195	383	MTT Solvent	16-19	60-66
	°C	°F								
MTT Reagent	195	383								
MTT Solvent	16-19	60-66								
Initial boiling point and boiling range	No data available									
Flash point	<table border="1"> <thead> <tr> <th></th> <th>°C</th> <th>°F</th> </tr> </thead> <tbody> <tr> <td>MTT Reagent</td> <td>—</td> <td>—</td> </tr> <tr> <td>MTT Solvent</td> <td>87</td> <td>188</td> </tr> </tbody> </table>		°C	°F	MTT Reagent	—	—	MTT Solvent	87	188
	°C	°F								
MTT Reagent	—	—								
MTT Solvent	87	188								
Evaporation rate	No data available									
Flammability (solid, gas)	No data available									
Lower and upper explosive (flammable) limits	No data available									
Vapor pressure	No data available									
Vapor density	No data available									
Relative density	No data available									
Solubility	No data available									

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Solubility in water	No data available
Partition coefficient: n-octanol/ water (log Kow)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10. Stability and reactivity

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	Heat, sunlight, high temperature
Incompatible materials	Strong acids/alkalis, strong oxidising/reducing agents.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Information on toxicological effects	No data available
Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	No data available

12. Ecological information

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available

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Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Other adverse effects	No data available

13. Disposal considerations

Waste treatment methods

Product	Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	Dispose of as unused product.

14. Transport information

IATA / ADR / RID / IMDG	Classified as dangerous in the meaning of transport regulations.
UN number	—
UN proper shipping name	Not dangerous goods
Transport hazard class(es)	—
Packaging group	—
Environmental hazards	no
Special precautions for user	No data available
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	No data available

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Chemical safety assessment	No data available

16. Other information

Abbreviations

ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association-Dangerous Goods Regulations
IARC	International Agency for Research on Cancer
OSHA	Occupational Health and Safety Administration

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RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
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