

Material Safety Data Sheet

FIVEphoton Biochemicals
 10635 Roselle St, Ste C
 San Diego, CA 92121
 Tel. (800) 462-4507
 Fax. (858) 792-7476
technicalsupport@FIVEphoton.com

A. CHEMICAL INFORMATION

Product Name: MTT Toxicity Assay System (AB-MTT1 and SB-MTT1)

B. COMPOSITION/INFORMATION ON INGREDIENT

Component 1: AB-MTT1

Compound Name	CAS #	Molecular Formula	% by weight	SARA 313	RTECS Number
Non-hazardous	NONE	NONE	1	No	No

Component 2: SB-MTT1

Compound Name	CAS #	Molecular Formula	% by weight	SARA 313	RTECS Number
Sodium dodecyl sulfate	151-21-3	NONE	8-17	No	No
Hydrochloric Acid	7647-01-0	HCl	<1	No	No

C. HAZARDOUS IDENTIFICATION

Emergency Overview	HMIS Rating	NFPA Rating
Avoid breathing vapors or mists. May cause irritation of respiratory tract.	Health: 1	Health: 1
Skin contact: AB-MTT1 does not cause irritation on contact. SB-MTT1 may cause irritation with prolonged contact.	Flammability: 0	Flammability: 0
Eye contact: AB-MTT1 may cause irritation on contact. SB-MTT1 is moderately irritating on contact.	Reactivity: 0	Reactivity: 0

D. FIRST AID MEASURES

Inhalation: Consult a physician. Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

Skin contact: Rinse with plenty of water. If skin irritation persists, call a physician. Remove and wash contaminated clothing before re-use

Ingestion: Consult a physician. Do not induce vomiting without medical advice

Eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice

Notes to physician: None determined

E. FIRE FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO₂, water spray or `alcohol` foam

Unusual hazards: None known

Special protective equipment for firefighters: Wear self contained breathing apparatus for fire fighting if necessary

F. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment. Evacuate personnel to safe areas

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods for cleaning up: Never return spills in original containers for re-use. Sweep up or vacuum (if powder) or soak up with inert absorbent material (if liquid), then place into a suitable clean, dry, closed container, and label for disposal

G. HANDLING AND STORAGE

Handling: Protect from contamination. Wear personal protective equipment

Storage: No special precautions required

H. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment
Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

For prolonged or repeated contact use protective gloves.

Eye protection

Safety glasses

Hygiene measures

General industrial hygiene practice.

I. PHYSICAL AND CHEMICAL PROPERTIES
--

Appearance: Physical State: LIQUID

PROPERTIES	VALUE	AT TEMPERATURE OR PRESSURE
Molecular Weight	N/A	
pH	2.4	
BP/C (range)	N/A	
MP/C (range)	195	
FREEZING POINT/C	N/A	
VAPOR PRESSURE	N/A	
VAPOR DENSITY	N/A	
SATURATED VAPOR	N/A	
SG/DENSITY	N/A	
BULK DENSITY	N/A	
ODOR THRESHOLD	N/A	
% VOLATILITY	N/A	
VOC CONTENT	N/A	
WATER CONTENT	N/A	
SOLVENT CONTENT	N/A	
EVAPORATION RATE	N/A	
VISCOSITY	N/A	
SURFACE TENSION	N/A	
PARTITION COEFFICIENT	N/A	
DECOMPOSITION TEMP	N/A	
FLASH POINT	N/A	
EXPLOSION LIMITS	N/A	
FLAMMABILITY	N/A	
AUTOIGNITION TEMP	N/A	
REFRACTION INDEX	N/A	
OPTICAL ROTATION	N/A	
MISC DATA	N/A	
SOLUBILITY	N/A	

J. STABILITY AND REACTIVITY

Stability: Stable

Materials to Avoid: Strong acids and strong bases. Strong oxidising agents

Hazardous Decomposition Products: Carbon oxides

Hazardous Polymerization: Will not occur.

K. TOXICOLOGICAL INFORMATION

Components

Sodium dodecyl sulfate

Hydrochloric acid

NIOSH -Selected LD50s and LC50s

=1288 mg/kg Oral LD50 Rat

=580 mg/kg Dermal LD50 Rabbit

>5010 mg/kg Dermal LD50 Rabbit

NIOSH Pocket Guide -Target Organs:

skin eyes respiratory system
50ppmIDLH

L. ECOLOGICAL INFORMATION

Not Available

M. DISPOSABLE CONSIDERATIONS

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous

N. TRANSPORTATION INFORMATION

DOT

Proper Shipping Name: None.

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: non-hazardous for air transport.

O. REGULATORY INFORMATION

N/A

P. OTHER INFORMATION

DISCLAIMER

For R&D use only. Not for drug, household or other uses.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall FIVEphoton Biochemicals be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if FIVEphoton Biochemicals has been advised of the possibility of such damage.

Material Safety Data Sheet

FIVEphoton Biochemicals
10635 Roselle St, Ste C
San Diego, CA 92121
Tel. (800) 462-4507
Fax. (858) 792-7476
technicalsupport@FIVEphoton.com

A. CHEMICAL INFORMATION

Product Name: MTT Toxicity Assay System (MTT-R1)

B. COMPOSITION/INFORMATION ON INGREDIENT

Compound Name	CAS #	Molecular Formula	SARA 313	RTECS Number
Thiazolyl Blue	298-93-1	C18H16BrN5S	No	No
Tetrazolium Bromide				

C. HAZARDOUS IDENTIFICATION

This substance is not classified as dangerous according to Directive 67/548/EEC.

D. FIRST AID MEASURES

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

E. FIRE FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

F. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid dust formation.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

G. HANDLING AND STORAGE

Handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: 2 - 8 °C

hygroscopic Light sensitive. Air and moisture sensitive. Store under inert gas.

H. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

For prolonged or repeated contact use protective gloves.

Eye protection

Safety glasses

Hygiene measures

General industrial hygiene practice.

I. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Physical State: dark yellowish powder

PROPERTIES	VALUE	AT TEMPERATURE OR PRESSURE
Molecular Weight	414.32	
pH	N/A	
BP/C (range)	N/A	
MP/C (range)	195	
FREEZING POINT/C	N/A	
VAPOR PRESSURE	N/A	
VAPOR DENSITY	N/A	
SATURATED VAPOR	N/A	
SG/DENSITY	N/A	
BULK DENSITY	N/A	
ODOR THRESHOLD	N/A	
% VOLATILITY	N/A	
VOC CONTENT	N/A	
WATER CONTENT	N/A	
SOLVENT CONTENT	N/A	
EVAPORATION RATE	N/A	
VISCOSITY	N/A	
SURFACE TENSION	N/A	
PARTITION COEFFICIENT	N/A	
DECOMPOSITION TEMP	N/A	
FLASH POINT	N/A	
EXPLOSION LIMITS	N/A	
FLAMMABILITY	N/A	
AUTOIGNITION TEMP	N/A	
REFRACTION INDEX	N/A	
OPTICAL ROTATION	N/A	
MISC DATA	N/A	
SOLUBILITY	N/A	

J. STABILITY AND REACTIVITY

Stability: Stable

Materials to Avoid: Strong oxidizing agents.

Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO_x), Hydrogen bromide gas, Sulphur oxides

Hazardous Polymerization: Will not occur.

K. TOXICOLOGICAL INFORMATION

No data available

L. ECOLOGICAL INFORMATION

Not Available

M. DISPOSABLE CONSIDERATIONS**Product**

Observe all federal, state, and local environmental regulations.

Contaminated packaging

Dispose of as unused product.

N. TRANSPORTATION INFORMATION**DOT**

Proper Shipping Name: None.

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: non-hazardous for air transport.

O. REGULATORY INFORMATION**Labelling according to EC Directives**

The product does not need to be labelled in accordance with EC directives or respective national laws.

P. OTHER INFORMATION**DISCLAIMER**

For R&D use only. Not for drug, household or other uses.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall FIVEphoton Biochemicals be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if FIVEphoton Biochemicals has been advised of the possibility of such damage.

