

Document: WM5607-A
Release date: Dec 05, 2024

Applies to part numbers:
WM5601, WM5607

Section 1 Product and Company Identification

Product code: WM5607 Product name: TdT (20 U/μL)

Supplier: YAMAYBIO INC

Address: 6191 Cornerstone Court, Suite 107, San Diego, CA 92121, USA

Recommended Use: For research use only.

Restrictions on Use: Not for clinical use. Not for internal use in animals or humans. Not for diagnostic use. Not for household or any other unintended use.

Section 2 Hazards Identification

EMERGENCY OVERVIEW:

Harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

HMIS RATING

HEALTH	0
FLAMMABILITY	0
REACTIVITY	0

For additional information on toxicity, please refer to Section 11.

Section 3 Composition/ Information on Ingredients

There are no other ingredients present which within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous according to the OSHA Hazard Communications Standard (29 CFR 1910.1200) and require reporting in this section.

Section 4 First Aid Measures

ORAL EXPOSURE If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

DERMAL EXPOSURE In case of contact, wash skin with water.

EYE EXPOSURE In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

Section 5 Fire Fighting Measures

FLASH POINT N/A

AUTOIGNITION TEMP N/A

FLAMMABILITY N/A

EXTINGUISHING MEDIA

Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Not suitable No information available

FIREFIGHTING Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6 Accidental Release Measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment.
ENVIRONMENTAL PRECAUTIONS	No special environmental precautions required.
METHODS AND MATERIAL FOR CONTAINMENT	Soak up with inert absorbent material.

Section 7 Handling and Storage

SAFE HANDLING	Use personal protective equipment as required. No special handling advices are necessary.
SAFE STORAGE	Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers. Store in accordance with local regulations.

Section 8 Exposure Controls / Personal Protection

PERSONAL PROTECTIVE EQUIPMENT	
Respiratory	In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.
Hand	Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.
Eye	Tight sealing safety goggles.
Skin and Body	Wear suitable protective clothing.
GENERAL HYGIENE MEASURES	Wash thoroughly after handling.
ENVIRONMENTAL EXPOSURE CONTROLS	No special environmental precautions required.

Section 9 Physical and Chemical Properties

Appearance Physical State	liquid
Solvent Content	N/A

Section 10 Stability and Reactivity

STABILITY	Stable under normal conditions.
Materials to Avoid	No data available.
HAZARDOUS DECOMPOSITION PRODUCT	
Hazardous Decomposition Products	No dangerous decomposition products known
HAZARDOUS POLYMERIZATION	
Hazardous Polymerization	No data available.

Section 11 Toxicological Information

ROUTE OF EXPOSURE	
Skin Contact	May cause skin irritation.
Skin Absorption	May be harmful if absorbed through the skin.
Eye Contact	May cause eye irritation.
Inhalation	Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion	May be harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12 Ecological Information

Toxicity	The environmental impact of this product has not been fully investigated.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
General notes	Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Results of PBT and vPvB assessment	No information available.

Section 13 Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION:

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Section 14 Transport Information

IATA / ADR / DOT-US / IMDG	Not regulated in the meaning of transport regulations.
Environmental hazards	N/A
Special precautions for user	N/A
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	N/A

Section 15 Regulatory Information

US FEDERAL REGULATIONS

SARA 313	This product is not regulated by SARA.
Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)	This product does not contains HAPs.

US STATE REGULATIONS

California Proposition 65	This product does not contain any Proposition 65 chemicals.
WHMIS Hazard Class	Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

Section 16 Other Information

Date of last revision:	Dec 05,2024
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The information provided herein has been obtained through diligent research and analysis. The recommendations are based upon the prudent application of professional judgment. This information is not intended to be exhaustive and should be used as a general guideline. All materials and mixtures may present potential hazards, and should be handled with care. As the Company cannot control the specific methods, quantities, or conditions of use, it shall not be liable for any damages or losses resulting from the handling or contact with the product as described herein.

THE INFORMATION CONTAINED IN THIS SAFETY DATA SHEET DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

End of Safety Data Sheet

Document: WM5608-A
Release date: Dec 05, 2024

Applies to part numbers:
WM5603, WM5608

Section 1 Product and Company Identification

Product code: WM5608 Product name: 5×Reaction Buffer

Supplier: YAMAYBIO INC

Address: 6191 Cornerstone Court, Suite 107, San Diego, CA 92121, USA

Recommended Use: For research use only.

Restrictions on Use: Not for clinical use. Not for internal use in animals or humans. Not for diagnostic use. Not for household or any other unintended use.

Section 2 Hazards Identification

EMERGENCY OVERVIEW:

Toxic if swallowed or if inhaled. May cause cancer. Very toxic to aquatic life with long lasting effects.

GHS CLASSIFICATION

Signal Word

Danger

Hazard pictograms



Hazard Statements

H301 + H331 - Toxic if swallowed or if inhaled.

H350 - May cause cancer.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P264 - Wash skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/ protective clothing/ eye protection/ faceprotection.

Response

P301 + P310 + P330 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

P304 + P340 + P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor.

P308 + P313 - IF exposed or concerned: Get medical advice/attention.

P391 - Collect spillage.

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant.

HMIS RATING

HEALTH	4
FLAMMABILITY	0
REACTIVITY	0

For additional information on toxicity, please refer to Section 11.

Section 3 Composition/ Information on Ingredients

Ingredient	CAS-No.	EINECS-No.	Weight %
Cacodylic acid	79-06-1	-	1-5

The product contains no other substances which, at their given concentration, are considered hazardous to health.

Section 4 First Aid Measures

ORAL EXPOSURE	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice. If swallowed, wash out mouth with water provided person is conscious. Do NOT induce vomiting. Call a physician.
INHALATION EXPOSURE	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. If necessary, call a physician.
DERMAL EXPOSURE	In case of contact, rinse with plenty of water. Remove contaminated clothing and shoes.
EYE EXPOSURE	In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED	
H401 - Toxic to aquatic life H411 - Toxic to aquatic life with long lasting effects	

Section 5 Fire Fighting Measures

FLASH POINT	N/A
AUTOIGNITION TEMP	N/A
FLAMMABILITY	N/A
EXTINGUISHING MEDIA	
Suitable	Water spray, carbon dioxide, dry chemical powder, or appropriate foam.
Not suitable	No information available
FIREFIGHTING	Not known

Section 6 Accidental Release Measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment. See Section 8 for more detail.
ENVIRONMENTAL PRECAUTIONS	Avoid discharge into drains and waterways whenever possible.
METHODS AND MATERIAL FOR CONTAINMENT	Soak up with inert absorbent material.

Section 7 Handling and Storage

SAFE HANDLING	Avoid inhalation, contact with eyes and skin. Always wear recommended Personal Protective Equipment.
SAFE STORAGE	Keep container tightly sealed in cool, well-ventilated area. Store in accordance with local regulations.

Section 8 Exposure Controls / Personal Protection

PERSONAL PROTECTIVE EQUIPMENT	
Respiratory	In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.
Hand	Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.
Eye	Tight sealing safety goggles.
Skin and Body	Wear suitable protective clothing.
GENERAL HYGIENE MEASURES	Wash thoroughly after handling.
ENVIRONMENTAL EXPOSURE CONTROLS	Avoid discharge into drains and waterways whenever possible.

Section 9 Physical and Chemical Properties

Appearance Physical State Liquid
Solvent Content N/A

Section 10 Stability and Reactivity

STABILITY Stable under recommended storage conditions.

HAZARDOUS DECOMPOSITION PRODUCT

Hazardous Decomposition Products No data available.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization No data available.

Section 11 Toxicological Information

INFORMATION ON TOXICOLOGICAL EFFECTS

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
Cacodylic acid	= 644 mg/kg (Rat)	No data available	>6.9mg/L(Rat) >3.9mg/L(Rat)

PRINCIPAL ROUTES OF EXPOSURE

Skin corrosion/irritation Data are conclusive but insufficient for classification
Respiratory or skin sensitization Data are conclusive but insufficient for classification
Specific target organ toxicity (STOT)–repeated exposure Data are conclusive but insufficient for classification
Carcinogenicity Data are conclusive but insufficient for classification
Germ cell mutagenicity Data are conclusive but insufficient for classification
Reproductive toxicity Data are conclusive but insufficient for classification

Section 12 Ecological Information

TOXICITY

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Microtox Data	log Pow
Cacodylic acid	No data available	No data available	No data available	No data available	No data available

Persistence and degradability No further relevant information available.

Bioaccumulative potential No further relevant information available.

General notes No further relevant information available.

Results of PBT and vPvB assessment This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Section 13 Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION:

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Section 14 Transport Information

IATA / ADR / DOT-US / IMDG

This product is subjected to UN special provision A197 (375); These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

UN number	3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s,(Cocadylic acid)
Transport hazard class(es)	9
Packing group	III

ENVIRONMENTAL HAZARDS

Yes

SPECIAL PRECAUTIONS FOR USER

Not Applicable

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not Applicable

Section 15 Regulatory Information

US FEDERAL REGULATIONS

SARA 313

This product contains the following toxic chemical(s) subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories. Please note that if you repackage, or otherwise redistribute, this product to industrial customers, a notice similar to this one should be sent to those customers.

Ingredient	CAS #	Weight %	SARA 313 - Threshold Values%
Cacodylic acid	75-60-5	1-5	1

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs

US STATE REGULATIONS

California Proposition 65

This product contains the following Proposition 65 chemicals:

Ingredient	CAS #	Weight %	Category
Cacodylic acid	75-60-5	1-5	Carcinogen

WHMIS Hazard Class

Non-controlled

Section 16 Other Information

Date of last revision: Dec 05,2024

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End of Safety Data Sheet