

Document: CC6201-A  
Release date: Oct 08, 2024

Applies to part numbers:

CC6201

## Section 1 Product and Company Identification

Product code: CC6201 Product name: ExM Buffer A

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.

### GHS CLASSIFICATION

Signal Word

DANGER

Hazard pictograms



Hazard Statements

H302 - Harmful if swallowed  
H312 - Harmful in contact with skin or if inhaled  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H335 - May cause respiratory irritation  
H341 - Suspected of causing genetic defects  
H350 - May cause cancer

Precautionary Statements

Prevention

P201 - Obtain special instructions before use  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P264 - Wash hands thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P280 - Wear protective gloves/protective clothing/eye protection/face protection

Response

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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

Disposal

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

### HMIS RATING

HEALTH	3 * Chronic Hazard
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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 %
Formaldehyde	50-00-0	200-01-8	0.1%-0.5%

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	
H302 - Harmful if swallowed H312 - Harmful in contact with skin H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H332 - Harmful if inhaled H335 - May cause respiratory irritation H341 - Suspected of causing genetic defects H350 - May cause cancer	

### **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	No special environmental precautions required.
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.
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### HAZARDOUS POLYMERIZATION

Hazardous Polymerization	No data available.
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## **Section 11 Toxicological Information**

### INFORMATION ON TOXICOLOGICAL EFFECTS

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
Formaldehyde	= 100mg/kg (Rat)	No data available	= 0.578mg/kg

### PRINCIPAL ROUTES OF EXPOSURE

Skin corrosion/irritation	Conclusive but not sufficient for classification
Respiratory or skin sensitization	Conclusive but not sufficient for classification
Specific target organ toxicity (STOT)–repeated exposure	Conclusive but not sufficient for classification
Carcinogenicity	Conclusive but not sufficient for classification
Germ cell mutagenicity	Conclusive but not sufficient for classification
Reproductive toxicity	Conclusive but not sufficient 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
Formaldehyde	No data available	Daphnia magna EC50 11.3 - 18 mg/L (48 h) Daphnia magna LC50 = 2 mg/L (48 h)	No data available	No data available	logPow 0.35

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 accordance with 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 subject to the de minimis exceptions for dangerous goods / hazardous materials in accordance with the following regulations: IATA 2.6.10, ADR 3.5.1.4, and U.S. DOT 49 CFR 173.4b.

UN number	UN3334
UN proper shipping name	Aviation Regulated Liquids, n.o.s. (Formaldehyde)
Transport hazard class(es)	9
Packing group	Not Applicable

ENVIRONMENTAL HAZARDS

Not Hazardous

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 repack, 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%
Formaldehyde	50-00-0	0.1%-0.5%	0.1

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

This product contains the following HAPs

Ingredient	CAS #	Weight %	HAPS data
Formaldehyde	50-00-0	0.1%-0.5%	Present

US STATE REGULATIONS

California Proposition 65

This product contains the following Proposition 65 chemicals:

Ingredient	CAS #	Weight %	Category
Formaldehyde	50-00-0	0.1%-0.5%	Carcinogen

WHMIS Hazard Class

D1B - Toxic materials  
D2A-Very toxic materials

## **Section 16      Other Information**

Date of last revision: Oct 08,2024

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: CC6202-A  
Release date: Oct 08, 2024

Applies to part numbers:

CC6202

## Section 1 Product and Company Identification

Product code: CC6202 Product name: ExM Buffer B

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.

### GHS CLASSIFICATION

Signal Word

DANGER

Hazard pictograms



Hazard Statements

H301 - Toxic if swallowed  
H312 + H332 - Harmful in contact with skin or if inhaled  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H340 - May cause genetic defects  
H350 - May cause cancer  
H361 - Suspected of damaging fertility or the unborn child  
H372 - Causes damage to organs through prolonged or repeated exposure  
H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention

P201 - Obtain special instructions before use  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P264 - Wash hands thoroughly after handling  
P280 - Wear protective gloves/protective clothing/eye protection/face protection

Response

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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

Disposal

P502 - Refer to manufacturer/supplier for information on recovery/recycling

### HMIS RATING

HEALTH	<b>2* Chronic Hazard</b>
FLAMMABILITY	<b>0</b>
REACTIVITY	<b>0</b>

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

### **Section 3 Composition/ Information on Ingredients**

<b>Ingredient</b>	<b>CAS-No.</b>	<b>EINECS-No.</b>	<b>Weight %</b>
Acrylamide	79-06-1	201-173-7	10%
Bis-Acrylamide	110-26-9	203-750-9	0.05%

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	

H301 - Toxic if swallowed H312 + H332 - Harmful in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H317 - May cause an allergic skin reaction H372 - Causes damage to organs through prolonged or repeated exposure H350 - May cause cancer H340 - May cause genetic defects H361 - Suspected of damaging fertility or the unborn child

### **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**

<b>Ingredient</b>	<b>Oral LD50</b>	<b>Dermal LD50</b>	<b>Inhalation LC50</b>
Acrylamide	= 177 mg/kg	= 1148 mg/kg	No data available
Bis-Acrylamide	= 390 mg/kg (Rat)	No data available	No data available

### **PRINCIPAL ROUTES OF EXPOSURE**

Skin corrosion/irritation	Skin irritation Serious eye damage/eye irritation
Respiratory or skin sensitization	May cause sensitization by skin contact
Specific target organ toxicity (STOT)–repeated exposure	Target organ(s): Blood
Carcinogenicity	Contains a known or suspected carcinogen
Germ cell mutagenicity	Product is or contains a chemical which may cause mutations in the germ cells of humans.
Reproductive toxicity	May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility

## **Section 12 Ecological Information**

### **TOXICITY**

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

<b>Chemical Name</b>	<b>Toxicity to algae</b>	<b>Toxicity to daphnia and other aquatic invertebrates</b>	<b>Toxicity to fish</b>	<b>Microtox Data</b>	<b>log Pow</b>



Acrylamide	No data available	Daphnia magna EC50=98 mg/L (48 h)	No data available	No data available	logPow-0.9
Bis-Acrylamide	No data available	No data available	No data available	No data available	logPow-0.08

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 No further relevant 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

ENVIRONMENTAL HAZARDS

Not Applicable

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%
Acrylamide	7758-99-8	9-30	0.1

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

This product contains the following HAPs

Ingredient	CAS #	Weight %	HAPS data
Acrylamide	7758-99-8	9-30	Present

US STATE REGULATIONS

California Proposition 65

This product contains the following Proposition 65 chemicals:

Ingredient	CAS #	Weight %	Category
Acrylamide	7758-99-8	9-30	Carcinogen Developmental Male Reproductive

**Section 16 Other Information**

Date of last revision: Oct 08,2024

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.

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**End of Safety Data Sheet**

Document: CC6203-A  
Release date: Oct 08, 2024

Applies to part numbers:  
CC6203

## Section 1 Product and Company Identification

Product code: CC6203 Product name: ExM Buffer C

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.

### GHS CLASSIFICATION

Signal Word

DANGER

Hazard pictograms



Hazard Statements

H301 - Toxic if swallowed

H314 - Causes severe skin burns and eye damage

H331 - Toxic if inhaled

Precautionary Statements

Prevention

P233 - Keep container tightly closed

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

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

P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

Response

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

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction

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 %
1,2-Bis(dimethylamino)ethane	110-18-9	203-744-6	0.1%-0.5%

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	
H225 - Highly flammable liquid and vapor H301 - Toxic if swallowed H314 - Causes severe skin burns and eye damage H331 - Toxic if inhaled	

### **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
FIRE FIGHTING	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 protective equipment. See Section 8 for more detail.
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	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.
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### HAZARDOUS POLYMERIZATION

Hazardous Polymerization	No data available.
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## **Section 11      Toxicological Information**

### INFORMATION ON TOXICOLOGICAL EFFECTS

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
1,2-Bis(dimethylamino)ethane	= 891 mg/kg (Rat) = 406 mg/kg (Rat)	= 1230 mg/kg(Rabbit)	>1180ppm(Rat)

### PRINCIPAL ROUTES OF EXPOSURE

Acute toxicity	Toxic if swallowed. Toxic by inhalation.
Skin corrosion/irritation	Causes severe burns
Serious eye damage/irritation	Causes serious eye damage
Respiratory or skin sensitization	Conclusive but not sufficient for classification
Specific target organ toxicity (STOT)–repeated exposure	Conclusive but not sufficient for classification
Carcinogenicity	Conclusive but not sufficient for classification
Germ cell mutagenicity	Conclusive but not sufficient for classification
Reproductive toxicity	Conclusive but not sufficient for classification

## **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	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 accordance with 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

Classified as dangerous in the meaning of transport regulations

UN number	UN2372
UN proper shipping name	1,2-Di-(Dimethylamino)ethane
Transport hazard class(es)	3
Packing group	II

ENVIRONMENTAL HAZARDS

Not Hazardous

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

US STATE REGULATIONS

California Proposition 65	This product does not contain any Proposition 65 chemicals.
WHMIS Hazard Class	D1B - Toxic materials E - Corrosive material

## **Section 16      Other Information**

Date of last revision: Oct 08,2024

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: CC6204-A  
Release date: Oct 18, 2024

Applies to part numbers:

CC6204

## Section 1 Product and Company Identification

Product code: CC 6204 Product name: ExM Buffer D

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.

### GHS CLASSIFICATION

Signal Word

DANGER

Hazard pictograms



Hazard Statements

H272-May intensify fire; oxidizer

H302-Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335-May cause respiratory irritation

Precautionary Statements

Prevention

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P220-Keep/ Store away from clothing/ combustible materials

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

P264-Wash hands thoroughly after handling

P280-Wear protective gloves/ protective clothing/ eye protection/ face protection

Response

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

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P333+P313- If skin irritation or rash occurs: Get medical advice/ attention

Disposal

P502 - Dispose of contents/ container to an approved waste disposal plant

### HMIS RATING

HEALTH	4
FLAMMABILITY	3

REACTIVITY	0
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For additional information on toxicity, please refer to Section 11.

### **Section 3 Composition/ Information on Ingredients**

Ingredient	CAS-No.	EINECS-No.	Weight %
Ammonium persulfate	7727-54-0	231-786-5	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	
H272 - May intensify fire; oxidizer H302 - Harmful if swallowed H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 - May cause respiratory irritation	

### **Section 5 Fire Fighting Measures**

FLASH POINT	N/A
AUTOIGNITION TEMP	N/A
FLAMMABILITY	N/A
EXTINGUISHING MEDIA	
Suitable	Water spray. Carbon dioxide (CO2). Foam. Dry chemical.
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	No special environmental precautions required
METHODS AND MATERIAL FOR CONTAINMENT	Take up mechanically, placing in appropriate containers for disposal.

### **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.
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### HAZARDOUS POLYMERIZATION

Hazardous Polymerization	No data available.
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## **Section 11 Toxicological Information**

### INFORMATION ON TOXICOLOGICAL EFFECTS

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium persulfate	= 495mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 2.95mg/L(Rat)

### PRINCIPAL ROUTES OF EXPOSURE

Skin corrosion/irritation	Skin irritation Serious eye damage/eye irritation
Respiratory or skin sensitization	May cause sensitization by skin contact
Specific target organ toxicity (STOT)–repeated exposure	May cause respiratory irritation
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
Ammonium persulfate	No data available	Daphnia magna EC50=120 mg/L (48 h)	No data available	No data available	No data available

Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.

No further relevant information available.

No further relevant information available.