

SAFETY DATA SHEET

Occument: RF1500-A Applies to part numbers:

Release date: Sep 18, 2024 RF1500

Section 1 Product and company identification

Product code: RF1500 Product name: Enhanced Catalyst

Supplier: YamayBio LLC

Address: 12100 Wilshire boulevard suite 800, Los Angeles, CA, 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

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

Composition/Information on Ingredients Section 3

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.

First Aid Measures Section 4

Not expected to present a significant ingestion hazard under anticipated conditions **ORAL EXPOSURE**

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

Water spray. Carbon dioxide (CO2). Foam. Dry chemical. Suitable

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

Take up mechanically, placing in appropriate containers for disposal.

CONTAINMENT

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.

Version: RF1500-A Page 2/5

Exposure Controls / Personal Protection Section 8

PERSONAL PROTECTIVE EQUIPMENT

In case of insufficient ventilation wear respirators and components tested and approved Respiratory

under appropriate government standards.

Hand Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

Tight sealing safety goggles. Eye Wear suitable protective clothing. Skin and Body GENERAL HYGIENE MEASURES Wash thoroughly after handling.

ENVIRONMENTAL EXPOSURE

Avoid discharge into drains and waterways whenever possible. **CONTROLS**

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	
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)-repeatedexposure

May cause respiratory irritation

Carcinogenicity Data are conclusive but insufficient for classification Germ cell mutagenicity Data are conclusive but insufficient for classification Data are conclusive but insufficient for classification Reproductive toxicity

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	No data available	No data available	No data available
persunate		(48 h)			

Persistence and degradability

Bioaccumulative potential

General notes

Results of PBT and vPvB
assessment

No further relevant information available.

No further relevant information available.

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

1444

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 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 C - Oxidizing materials

D2A - Very toxic materials

Section 16 Other information

Date of last revision: Sep 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

