SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY ADDRESS: EMERGENCY TELEPHONE NUMBERS:

Aptitude Medical Systems, Inc.

(888) 934-2253

Goleta CA 93117

PRODUCT NAME : **NB-01**CHEMICAL NAME : NB buffer
PRODUCT USE : Cell Lysis
PRODUCT CODE : Not re

SECTION 2 - HAZARDS IDENTIFICATION SUMMARY

Blue transparent aqueous liquid

HEALTH HAZARDS: May be harmful if swallowed, may be absorbed through skin, or inhaled. Mildly irritating to the eyes and

skin.

PHYSICAL HAZARDS: NA.

ENVIRONMENTAL HAZARDS: May be toxic to bees, birds and

aquatic invertebrates. Keep out of water ways.



SECTION 3 - COMPOSITION, INFORMATION OF INGREDIENTS

COMPONENT	PERCENTAGE	CAS NUMBER	
DI Water	90-99 %	7732-18-5	
Methylene Blue	1-5 %	61-73-4	
Triton X-100	1-5 %	9002-93-1	
Tween 20	1-5 %	9005-64-5	
N-acetyl-L-Cystein	1-5 %	616-91-1	
TE buffer	1-5 %	77-86-1	

SECTION 4 - FIRST AID MEASURES

First Aid responders should use protective equipment in Section 8 if there is a potential for exposure to product.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Wipe the wet off with a paper towel.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: cannot be inhaled.

Have a product container or label with you when calling a poison control center or doctor, or going for treatment.

NOTE TO PHYSICIAN: No specific antidote, treat symptomatically.

<u>SECTION 5 - FIRE FIGHTING MEASURES</u>

National Fire Protection Rating (NFPA)

HEALTH				0	
FLAMMABIL	JTY			0	
REACTIVITY		0			
4=Severe	3=Serious	2=Moderate		1=Slight	0=Minimal

FLASHPOINT: N/A

EXTINGUISHING MEDIA: N/A

FIRE AND EXPLOSION HAZARD: Not flammable, not explosive.

FIRE FIGHTING INSTRUCTIONS: N/A

FIRE FIGHTING EQUIPMENT: N/A

<u>SECTION 6 - ACCIDENTAL RELEASE MEASURES</u>

IN CASE OF SPILLS OR LEAKS: Clean up spills immediately, wipe with paper towel or some water-absorbing materials.

SMALL SPILL: wipe with paper towel or some water-absorbing materials.

LARGE SPILL: wipe with paper towel or some water-absorbing materials.

SECTION 7 - HANDLING AND STORAGE

KEEP OUT OF REACH OF CHILDREN!

HANDLING: Use in room temperature. Do not handle under strong light, especially sunlight.

STORAGE: Keep container closed and wrapped with aluminum foil when not in use. Keep away from light. Store in a well-ventilated dry place away from heat. Store above 25 C.

<u>SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION</u>

EXPOSURE LIMITS (8 hour TWA, ppm): .

COMPONENT	OSHA PEL	ACIGH TLV
N/A	N/A	N/A

ENGINEERING CONTROLS: Not needed.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION - Safety goggles.

CLOTHING - Long-sleeved shirt and long pants.

GLOVES - Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC), viton

RESPIRATOR – Not required when handled under normal conditions.

Discard clothing and other absorbent materials that have been heavily contaminated with this product. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- 2. Remove clothing immediately if gets inside. Then wash thoroughly and put on clean clothing.
- 3. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue transparent aqueous liquid

Odor:
pH:
3.0 - 8.0

Melting Point:
Not applicable
Boiling Point:
No data
Flash Point:
N/A

Evaporation Rate:
No data

Not data

Flammability: Not flammable Flammability Limits: Not applicable

Vapor Pressure: 17.5 torr @ 20°C (water)

Vapor Density:Not applicableDensity:1.05-1.2 g/mlSolubility:No dataPartition Coefficient:N/A

Partition Coefficient: N/A **Auto-Ignition Temperature:** No data **Decomposition Temperature:** No data

Viscosity: 1 mPa/s @ 20°C;

SECTION 10 - STABILITY AND REACTIVITY

PRODUCT REACTIVITY: Non-reactive

CHEMICAL STABILITY: Stable under normal conditions, however may decompose if heated or exposed to strong

light.

HAZARDOUS POLYMERIZATION: Product will not undergo polymerization

CONDITIONS TO AVOID: Avoid temperatures above 50°C for prolonged period of time. Avoid strong light exposure.

INCOMPATIBLE MATERIALS: None known

HAZARDOUS DECOMPOSITION PRODUCTS:. N/A

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity data from similar formulation

ACUTE TOXICITY:

Oral LD_{50} (rat) Not tested Dermal LD_{50} (rat) Not tested Inhalation LC_{50} (rat) Not tested Eye Irritation (rabbit) Not tested Skin Irritation (rabbit) Not tested Sensitization (guinea pig) Not tested

CARCINOGEN STATUS:

OSHA - Not listed NTP - Not listed IARC - Not listed

TERATOGENICITY: No reproductive or teratogenic (birth defect) effects at normal exposure levels.

MUTAGENICITY: Little or no evidence of mutagenic effects during in vivo or in vitro studies.

SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: Not tested. Overall, this product is not toxic.

FATE: Not tested.

FISH TOXICITY: (Technical)

96 hour LC₅₀, Rainbow trout Not tested 96 hour LC₅₀, Bluegill Not tested

AVIAN TOXICITY: (Technical)

Oral LC₅₀, Bobwhite quail Not tested Oral LC₅₀, Mallard duck Not tested

BEE TOXICITY:

Contact LD₅₀ Not tested

SECTION 13 - DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by storage or disposal.

WASTE: Pesticide wastes are toxic. Dispose of in accordance with applicable Federal, state and local laws and regulations.

CONTAINER: Non-refillable containers: Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Refillable container: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

Refer to the container label to determine if it is refillable and for complete cleaning and disposal instructions.

SECTION 14 - TRANSPORT INFORMATION

SHIPPING DESCRIPTION: Not regulated by DOT for ground transport

TRANSPORT HAZARD CLASS: N/A UN NUMBER: N/A DOT PACKING GROUP: N/A

SECTION 15 - REGULATORY INFORMATION

CERCLA REPORTABLE QUANTITY: Not listed

SARA TITLE III STATUS:

311/312 Hazard Categories – None known 313 Toxic Chemicals – None known

CALIFORNIA PROP 65: Not listed

TSCA: Not listed

SECTION 16 - OTHER INFORMATION

LIMIC	HEALTH		0		
HMIS HAZARD RATINGS	FLAMMABILITY		0		
	PHYSICAL HAZARD		0		
	4=Severe	3=Serious	2=M	oderate	1=Slight

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This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling.

REVISED DATE: May 2022

REFERENCE: Revised for Assembly Evaluation