



# RSV Extraction Buffer

## Safety Data Sheet

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

Date of issue: 3/17/2025

Version: 1

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name : Extraction Buffer for Nano-Check™ RSV Test  
Product code : EP-3551

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Extraction buffer is for use in conjunction with the Nano-Check™ RSV Test and is designed to lyse and inactivate the virus to release viral antigens. Each vial of extraction buffer is for single use.

Use of the substance/mixture : For professional use only  
The product is not intended for consumer use.

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Manufacturer: Nano-Ditech Corporation  
259 Prospect Plains Rd., Bldg K  
Cranbury, NJ 08512  
USA  
Tel: +1-609-409-3300 (Eastern time, USA), Email: info@nanoditech.com

#### 1.4. Emergency telephone number

Emergency number : +1-609-409-3300 (Eastern time, USA)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS US Classification

Not classified

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### GHS US labeling

See Section 3.2 for more details

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Component	Product identifier (Cas No)	Concentration	GHS US Classification
Triton X-100	9036-19-5	1.0%	Skin sensitization (H317)
CHAPS Hydrate	331717-45-4	1.0%	Skin irritation (H315) Eye irritation (H319) Reproductive toxicity (H360) Specific target organ toxicity Respiratory system (H335)
Gentamicin Sulfate	1405-41-0	0.0004%	Skin sensitization (H317)
Amphotericin B	1397-89-3	0.1%	Specific target organ toxicity Respiratory system (H335)
Sodium Azide	26628-22-8	0.09%	Acute Tox. 2 (Oral) (H300) Acute Tox. 1 (Dermal) (H310)

# RSV Extraction Buffer

## Safety Data Sheet

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- |                                       |                                                                                                                            |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| First-aid measures after inhalation   | : Immediately move the person into fresh air and keep comfortable for breathing. If symptoms persist, consult a physician. |
| First-aid measures after skin contact | : Immediately wash the affected area with soapy water and rinse thoroughly.                                                |
| First-aid measures after eye contact  | : Rinse immediately with plenty of water. If symptoms persist, consult a physician.                                        |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell. If symptoms persist, consult a physician.                           |

#### 4.2. Most important symptoms and effects, both acute and delayed

- |                                      |                                                                                            |
|--------------------------------------|--------------------------------------------------------------------------------------------|
| Symptoms/injuries                    | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Symptoms/injuries after skin contact | : Not applicable                                                                           |
| Symptoms/injuries after eye contact  | : Not applicable                                                                           |

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- |                                |                  |
|--------------------------------|------------------|
| Suitable extinguishing media   | : Not applicable |
| Unsuitable extinguishing media | : Not applicable |

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

- |                                       |                                                                        |
|---------------------------------------|------------------------------------------------------------------------|
| Firefighting instructions             | : Do not attempt to take action without suitable protective equipment. |
| Protective equipment for firefighters | : Self-contained breathing apparatus. Complete protective clothing.    |
| Other information                     | : Avoid all eye and skin contact and do not breathe vapour and mist.   |

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- |                      |                                                                                                                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Emergency procedures | : In case of spill or leak, wear appropriate personal protective equipment. Soak up spillage with inert absorbent material and dispose of as hazardous waste. Keep in suitable containers for disposal. |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

##### 6.1.2. For emergency responders

- |                      |                                                                                                                                                  |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Equip cleanup crew with proper protection.                                                                                                     |
| Emergency procedures | : The low volatility of this product does not require ventilation. However depending on the condition an adequate ventilation might be required. |

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

- |                         |                                                                                                                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Methods for cleaning up | : Store away from other materials. Dispose of contents/container to comply with applicable local, national and international regulations. Consult the appropriate authorities about waste disposal.<br>Follow good laboratory practice and occupational hygiene. |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- |                               |                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------|
| Precautions for safe handling | : Avoid contact with eyes, skin, and clothing. Wear appropriate PPE when handling |
|-------------------------------|-----------------------------------------------------------------------------------|

#### 7.2. Conditions for safe storage, including any incompatibilities

- |                    |                                                                |
|--------------------|----------------------------------------------------------------|
| Storage conditions | : Store at room temperature, not above 30°C and not below 2°C. |
|--------------------|----------------------------------------------------------------|

#### 7.3. Specific end use(s)

No additional information available

# RSV Extraction Buffer

## Safety Data Sheet

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

- |                                  |                                                                                                                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appropriate engineering controls | : A washing facility/water for eye and skin cleaning purposes should be present. Ensure adequate ventilation.                                                                        |
| Personal protective equipment    | : Avoid all unnecessary exposure. Use gloves, protective goggles and/or protective clothing. For certain operations, additional Personal Protection Equipment (PPE) may be required. |



- |                        |                                                                                                    |
|------------------------|----------------------------------------------------------------------------------------------------|
| Hand protection        | : Wear protective gloves                                                                           |
| Eye protection         | : Chemical goggles or safety glasses                                                               |
| Respiratory protection | : Wear appropriate mask                                                                            |
| Other information      | : Do not eat, drink or smoke during use. Follow good laboratory practice and occupational hygiene. |

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

- |                                             |                                                           |
|---------------------------------------------|-----------------------------------------------------------|
|                                             | RSV Extraction Buffer                                     |
| Physical state                              | : Liquid                                                  |
| Appearance                                  | : The liquid is contained in a firmly closed Reagent Tube |
| Color                                       | : Clear                                                   |
| Odor                                        | : Odourless                                               |
| Odor threshold                              | : No data available                                       |
| pH                                          | : 7.4 ~ 7.6                                               |
| Relative evaporation rate (butyl acetate=1) | : No data available                                       |
| Melting point                               | : No data available                                       |
| Freezing point                              | : No data available                                       |
| Boiling point                               | : No data available                                       |
| Flash point                                 | : No data available                                       |
| Auto-ignition temperature                   | : No data available                                       |
| Decomposition temperature                   | : No data available                                       |
| Flammability (solid, gas)                   | : No data available                                       |
| Vapor pressure                              | : No data available                                       |
| Relative vapour density at 20 °C            | : No data available                                       |
| Relative density                            | : No data available                                       |
| Solubility                                  | : No data available                                       |
| Log Pow                                     | : No data available                                       |
| Viscosity, kinematic                        | : No data available                                       |
| Viscosity, dynamic                          | : No data available                                       |
| Explosive properties                        | : No data available                                       |
| Oxidising properties                        | : No data available                                       |
| Explosive limits                            | : No data available                                       |

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions.



# RSV Extraction Buffer

## Safety Data Sheet

Potential Adverse human health effects and symptoms	: Not classified Based on available data, the classification criteria are not met
Acute toxicity	: CHAPS hydrate-CAS No. 331717-45-4 Acute toxicity estimate Oral - > 5,000 mg/kg (Calculation method) Acute toxicity estimate Inhalation - 4 h - > 200 mg/l - vapor(Calculation method) Acute toxicity estimate Dermal - > 5,000 mg/kg (Calculation method)
Skin corrosion/irritation	: Not classified Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Not classified Based on available data, the classification criteria are not met
Acute toxicity	: Gentamicin sulfate-CAS No. 1405-41-0 LD50 Oral - Rat - > 5,000 mg/kg Remarks: (RTECS) Inhalation: No data available, Dermal: No data available
Skin corrosion/irritation	: Not classified Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Not classified Based on available data, the classification criteria are not met
Acute toxicity	: Amphotericin B-CAS No. 1397-89-3 LD50 Oral - Rat - 1,370 mg/kg Inhalation: No data available, Dermal: No data available
Skin corrosion/irritation	: Not classified Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met

# RSV Extraction Buffer

## Safety Data Sheet

Carcinogenicity	Not classified Based on available data, the classification criteria are not met
Reproductive toxicity	Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	Not classified Based on available data, the classification criteria are not met
Aspiration hazard	Not classified Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	Not classified Based on available data, the classification criteria are not met

## SECTION 12: Ecological information

### 12.1. Toxicity

Toxicity to fish	: Sodium Azide - CAS No. 26628-22-8 Flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - 2.75 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to algae	: Static test ErC50 - Pseudokirchneriella subcapitata - 0.35 mg/l - 96 h (OECD Test Guideline 201)
Toxicity to fish	: Triton X-100- CAS No. 9036-19-5 LC50 - Pimephales promelas (fathead minnow) - 4 - 8.9 mg/l - 96 h Semi-static test LC50 - Leuciscus idus (Golden orfe) - 0.26 mg/l - 96 h (OECD Test Guideline 203) Remarks: The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl) phenol.
Toxicity to daphnia and other aquatic invertebrates	: LC50 - Daphnia magna (Water flea) - 18 - 26 mg/l - 48 h
Toxicity to daphnia and other aquatic invertebrates	: Static test EC50 - Daphnia magna (Water flea) - 0.011 mg/l - 48 h Remarks: (ECOTOX Database) The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl) phenol
Toxicity to algae	: Static test EC50 - Pseudokirchneriella subcapitata (green algae) - 1.9 mg/l - 96 h Remarks: (ECHA) The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl) phenol
Toxicity to fish(Chronic toxicity)	: Flow-through test - Danio rerio (zebra fish) - 0.012 mg/l (OECD Test Guideline 210) Remarks: The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl) phenol
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	: Semi-static test NOEC - Daphnia magna (Water flea) - 0.03 mg/l - 21 d (OECD Test Guideline 202) Remarks: The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol

### 12.2. Persistence and degradability

Biodegradability	: Triton X-100- CAS No. 9036-19-5 Aerobic - Exposure time 28 d Result: 22 % - Not readily biodegradable. (OECD Test Guideline 301C)
------------------	----------------------------------------------------------------------------------------------------------------------------------------

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Additional information	: Avoid release to the environment
------------------------	------------------------------------

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Contaminated materials should be disposed of as potentially bio-hazardous waste. Consult the appropriate local waste disposal expert about waste disposal.
Ecology - waste materials	: Avoid release to the environment.

# RSV Extraction Buffer

## Safety Data Sheet

### SECTION 14: Transport information

No known transport restrictions

#### 14.1. UN number

Not regulated for transport

#### 14.2. UN proper shipping name

Proper Shipping Name : RSV Extraction Buffer

#### 14.3. Transport hazard class(es)

Transport hazard class(es) : Non-Hazardous

#### 14.4. Packing group

Packing group : Not applicable

#### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

#### 14.6. Special precautions for user

No additional information available

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard

Pennsylvania Right To Know Components: amphotericin B CAS-No. 1397-89-3

New Jersey Right To Know Components: amphotericin B CAS-No. 1397-89-3

California Prop. 65 Components This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects

##### 15.1.1. EU-Regulations

No additional information available.

##### 15.1.2. National regulations

No additional information available.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

Sources of Key Data : SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Other information : None.

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*