

# 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: 08/23/2023

Version: 0

### 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 : 0409-RN

#### 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

No labelling applicable

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Comments : Extraction buffer (The table below presents the information on the mix of components)

Component	Concentration
Sodium Phosphate Buffer	0.1M
Bovine Serum Albumin	0.25%
Tween® 20	0.6%
Triton™ X-100	1.0%
CHAPS Hydrate	1.0%
Gentamicin Sulfate	0.0004%
Amphotericin B	0.1%
Sodium Azide	0.09%

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : Immediately move 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 for at least 15 minutes. If symptoms persist, consult a physician.
- First-aid measures after ingestion : Drink a large volume of water and induce vomiting. 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 : If user operation generates fumes: Vapor irritates eyes and causes tearing.

#### 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 : Not applicable
- Protective equipment for firefighters : Not applicable
- 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.
- 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. Keep the container closed when not in use.

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### 7.3. Specific end use(s)

No additional information available

## 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. Gloves. Protective goggles. 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

- Physical state : RSV Extraction Buffer
- Appearance : Liquid
- Appearance : The liquid is contained in a firmly closed extraction buffer container
- 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

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### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	: Sodium Azide - CAS No. 26628-22-8 : Human TDL <sub>0</sub> 710ug/kg General anaesthesia, unconsciousness, light-headedness, urinary organ disorder Rat LD <sub>50</sub> 27mg/kg Mouse LD <sub>50</sub> 28mg/kg Rabbit LD <sub>50</sub> 20mg/kg
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
Specific target organ toxicity (repeated 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	: Triton™ X-100- CAS No. 9036-19-5 : Rat LD <sub>50</sub> 1900 – 5000 mg/kg Symptoms: Vomiting, Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract., Risk of aspiration upon vomiting., Aspiration may cause pulmonary edema and pneumonitis. Inhalation: No data available Rabbit LD <sub>50</sub> Dermal 3000 mg/kg
Skin corrosion/irritation	: Rabbit Result: irritating - 4 h (OECD Test Guideline 404)
Serious eye damage/irritation	: Rabbit Result: Risk of serious damage to eyes
Respiratory or skin sensitisation	: Sensitisation test: - Human Result: negative
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	: Ingestion of excessive amounts by pregnant animals resulted in maternal and fetal toxicity. Did not show teratogenic effects in animal experiments.

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Specific target organ toxicity (single exposure)	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated 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
CHAPS hydrate-CAS No. 331717-45-4	
Acute toxicity	: 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
Gentamicin sulfate-CAS No. 1405-41-0	
Acute toxicity	: 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
Amphotericin B-CAS No. 1397-89-3	
Acute toxicity	: LD50 Oral - Rat - 1,370 mg/kg Inhalation: No data available, Dermal: No data available

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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

## 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)
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### 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
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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

- Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Used devices and other 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.

### 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*