



Trade name: DASH® SARS-CoV-2 & Flu A|B Positive Control Swab

SECTION 1: Identification

Product identifier used on the label:

Product Name: DASH® SARS-CoV-2 & Flu A|B Positive Control Swab

Other means of identification:

Synonyms: SARS-CoV-2 & Flu A/B Positive Control

Product Code Number: FA-0004, SG-0008

Recommended use of the chemical and restrictions on use:

Recommended use: Diagnostic Testing.

Recommended restrictions: Uses other than as recommended above

Name, U.S. address, and U.S. telephone number of the chemical manufacturer, importer, or other responsible party:

Company Name: Nuclein, LLC.
Company Address: 8305 Cross Park Drive, Austin, TX 78754, USA
Company Telephone: 1-888-992-3274
Company Contact Email: customersupport@nuclein.com

Emergency phone number: 1-888-992-3274 (9am-4pm Mon-Fri)

SECTION 2: Hazard(s) identification

Overall Classification for the kit:

Classification of the chemical in accordance with paragraph (d)(1)(i) of §1910.1200:
Not classified as hazardous.

GHS Signal word: None required.
GHS Hazard statement(s): None required.
GHS Hazard symbol(s): None required.
GHS Precautionary statement(s): None required.

Describe any hazards not otherwise classified that have been identified during the classification process:

None known.

Percentage of ingredient(s) of unknown acute toxicity:
Not applicable

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SECTION 3: Composition/information on ingredients

Mixture:

Chemical name	CAS#	Concentration (weight %)
Sucrose	57-50-1	45 - 60%
Water	7732-18-5	4 – 15%
Gelatin	9000-70-8	10 - 15%
Phosphoric acid, potassium salt (1:1)	7778-77-0	10 – 15%
Skim milk (Bovine - USA origin)	n/a	9 – 12%
L-Ascorbic acid	50-81-7	2 – 5%
Purified RNA	n/a	0 – 2%
Purified DNA	n/a	0 – 1%

SECTION 4: First-aid measures

Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:

Inhalation: Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Seek medical advice.

Skin contact: Remove contaminated clothing. Wash with water and soap and rinse thoroughly. Seek medical advice if irritation or pain develops.

Eye contact: In case of eye contact, rinse with plenty of water for at least 15 minutes. If irritation from exposure to vapor develops, move to fresh air. Get medical attention if symptoms develop.

Ingestion: Do NOT induce vomiting. Get medical attention immediately. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed:

Symptoms/injuries after inhalation: None anticipated under normal product use.

Symptoms/injuries after skin contact: None anticipated under normal product use.

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Symptoms/injuries after eye contact: May causes eye irritation.

Symptoms/injuries after ingestion: May be harmful if swallowed.

Indication of immediate medical attention and special treatment needed, if necessary:

If any symptoms are observed, contact a physician and give them this SDS sheet. Provide general supportive measures and treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media: Water spray. Carbon dioxide, regular dry chemical powder, or appropriate foam.

Unsuitable extinguishing media: None known

Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

Contains components that may form combustible dust concentrations in air [if small particles are generated during further processing, handling or by other means.]

Hazardous combustion products may include the following substances: Carbon monoxide, carbon dioxide, nitrogen oxides.

Special protective equipment and precautions for fire-fighters:

Cool containers with water until well after fire is out. Wear self-contained breathing apparatus and protective clothing. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Keep out of drains, surface waters and soil against pollution.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary personnel away from, and upwind of spill/leak. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Wear appropriate personal protective equipment (refer to Section 8 Exposure controls/ personal protection) and avoid inhalation or contact with eyes and skin. Prevent runoff and contact with waterways, drains or sewers.

Methods and materials for containment and cleaning up:

Avoid disposal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Toxic to aquatic life with long lasting effects.

For large amounts, remove all possible sources of ignition in the surrounding area. Use appropriate containment (of product and firefighting water) to avoid environmental contamination. Absorb spill with inert material and place in suitable container for disposal.

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SECTION 7: Handling and storage

Precautions for safe handling:

Use only with adequate ventilation. Wear appropriate personal protective equipment and use exposure controls as indicated in Section 8. Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Conditions for safe storage, including any incompatibles:

Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Store at 15 - 30 °C

Incompatible with: Many chemicals may kill the organism enclosed. There are no additional hazards created by incompatible materials.

SECTION 8: Exposure controls/personal protection

For all ingredients or constituents listed in Section 3, the OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit or range used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.

Substance	OSHA PEL	ACGIH TLV	NIOSH IDLH
Sucrose	TWA: 15 mg/m ³ (inhalable) 5 mg/m ³ (respirable)	TWA: 10 mg/m ³	TWA: 10 mg/m ³ (inhalable) 5 mg/m ³ (respirable)
Water	None known	None known	None known
Gelatin	None known	None known	None known
Phosphoric acid, potassium salt (1:1)	None known	None known	None known
Skim milk (Bovine - USA origin)	None known	None known	None known
L-Ascorbic acid	None known	None known	None known
Purified RNA	None known	None known	None known
Purified DNA	None known	None known	None known

Appropriate engineering controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust

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ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended. Concentrations should be monitored hazardous substances in the workplace in accordance with recognized test methods. Mode, method, type and frequency of testing and measurement of harmful factors in the working environment should meet the requirements of local/regional/national laws.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Wear safety glasses with side shields. Use equipment for eye protection tested and approved under NIOSH standards.

Skin and hand protection: Wear appropriate chemical resistant gloves. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. The selected protective gloves have to satisfy the specifications of ASTM F739.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

General hygiene considerations: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Wash hands after use.

SECTION 9: Physical and chemical properties

Physical state:	Solid dried material on swab
Color:	Not determined
Odor (includes odor threshold):	Odorless
Melting point/freezing point:	Not determined
Boiling point (or initial boiling point or boiling range):	Not determined
Flammability:	Some of the components may form combustible dust concentrations in air during the manufacturing

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process.

Lower and upper explosion limit/flammability limit:

Lower limit (%): Not determined

Upper limit (%): Not determined

Flash point: Not determined.

Auto-ignition temperature: Not determined

Decomposition temperature: Not determined

pH: Not determined

Kinematic viscosity: Not determined

Solubility: Not determined

Partition coefficient n-octanol/water (log value): Not determined

Vapor pressure (includes evaporation rate): Not determined

Density and/or relative density: Not determined

Relative vapor density: Not determined

Particle characteristic: Not determined

SECTION 10: Stability and reactivity

Reactivity: No hazardous reactions anticipated under normal storage and handling conditions.

Chemical stability: Stable under normal ambient and anticipated conditions of use

Possibility of hazardous reactions, including those associated with foreseeable emergencies: Will not occur.

Conditions to avoid: None.

Incompatible materials: Many chemicals may kill the organism enclosed. There are no additional hazards created by incompatible materials.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, nitrogen oxides.

SECTION 11: Toxicological information

Information on likely routes of exposure:

Inhalation: Expected to be a route of exposure

Ingestion: Expected to be a route of exposure

Skin: Expected to be a route of exposure

Eyes: Expected to be a route of exposure

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Symptoms related to the physical, chemical, and toxicological characteristics:

May causes eye irritation. May be harmful if swallowed.

Delayed and immediate effects and also chronic effects from short or long-term exposure:

No additional information is available.

Numerical measures of toxicity (such as acute toxicity estimates):

Acute toxicity:

Does not meet the criteria for classification

Substance	Test Type (species)	Value
Sucrose	LD ₅₀ Oral (Rat)	29700 mg/kg
	LD ₅₀ Dermal (Rabbit)	None known
	LC ₅₀ Inhalation (Rat)	None known
Water	LD ₅₀ Oral (Rat)	> 90 ml/kg
	LD ₅₀ Dermal (Rabbit)	None known
	LC ₅₀ Inhalation (Rat)	None known
Gelatin	LD ₅₀ Oral (Rat)	> 5000 mg/kg
	LD ₅₀ Dermal (Rabbit)	None known
	LC ₅₀ Inhalation (Rat)	None known
Phosphoric acid, potassium salt (1:1)	LD ₅₀ Oral (Rat)	3200 mg/kg
	LD ₅₀ Dermal (Rat)	> 2000 mg/kg
	LC ₅₀ Inhalation (Rat)	> 0.83 mg/L air 4h
Skim milk (Bovine - USA origin)	LD ₅₀ Oral (Rat)	None known
	LD ₅₀ Dermal (Rabbit)	None known
	LC ₅₀ Inhalation (Rat)	None known
L-Ascorbic acid	LD ₅₀ Oral (Rat)	11900 mg/kg
	LD ₅₀ Dermal (Rabbit)	None known
	LC ₅₀ Inhalation (Rat)	None known
Purified RNA	LD ₅₀ Oral (Rat)	236 mg/kg
	LD ₅₀ Dermal (Rabbit)	None known
	LC ₅₀ Inhalation (Rat)	> 4.45 mg/L air 4hr
Purified DNA	LD ₅₀ Oral (Rat)	236 mg/kg
	LD ₅₀ Dermal (Rabbit)	None known

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	LC ₅₀ Inhalation (Rat)	> 4.45 mg/L air 4hr
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Skin corrosion/irritation:	Does not meet the criteria for classification
Serious eye damage/eye irritation:	Does not meet the criteria for classification
Respiratory or skin sensitization:	Does not meet the criteria for classification
Germ cell mutagenicity:	Does not meet the criteria for classification
Carcinogenicity:	Does not meet the criteria for classification.
Reproductive toxicity:	Does not meet the criteria for classification.
Specific target organ toxicity- Single exposure:	Does not meet the criteria for classification.
Specific target organ toxicity- Repeat exposure:	Does not meet the criteria for classification.
Aspiration hazard:	Does not meet the criteria for classification.
Interactive effects:	None known

Whether the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA:

Chemical Name	ACGIH	IARC	NTP	OSHA
Sucrose	Not listed	Not listed	Not listed	Not listed
Water	Not listed	Not listed	Not listed	Not listed
Gelatin	Not listed	Not listed	Not listed	Not listed
Phosphoric acid, potassium salt (1:1)	Not listed	Not listed	Not listed	Not listed
Skim milk (Bovine - USA origin)	Not listed	Not listed	Not listed	Not listed
L-Ascorbic acid	Not listed	Not listed	Not listed	Not listed
Purified RNA	Not listed	Not listed	Not listed	Not listed
Purified DNA	Not listed	Not listed	Not listed	Not listed

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SECTION 12: Ecological information

Ecotoxicity (aquatic and terrestrial, where available):

Substance	Test Type	Species	Value
Sucrose	LC ₅₀	Fish	None known
	EC ₅₀	Invertebrates	None known
	EC ₅₀	Algae	None known
Water	LC ₅₀	Fish	None known
	EC ₅₀	Invertebrates	None known
	EC ₅₀	Algae	None known
Gelatin	LC ₅₀	Fish	None known
	EC ₅₀	Invertebrates	None known
	EC ₅₀	Algae	None known
Phosphoric acid, potassium salt (1:1)	LC ₅₀	Fish - <i>Oncorhynchus mykiss</i>	> 100 mg/L 96h
	EC ₅₀	Invertebrates - <i>Daphnia magna</i>	> 100 mg/L 48h
	EC ₅₀	Algae - <i>Desmodesmus subspicatus</i>	> 100 mg/L 72h
Skim milk (Bovine - USA origin)	LC ₅₀	Fish	None known
	EC ₅₀	Invertebrates	None known
	EC ₅₀	Algae	None known
L-Ascorbic acid	LC ₅₀	Fish	None known
	EC ₅₀	Invertebrates	None known
	EC ₅₀	Algae	None known
Purified RNA	LC ₅₀	Fish	None known
	EC ₅₀	Invertebrates	None known
	EC ₅₀	Algae	None known
Purified DNA	LC ₅₀	Fish	None known
	EC ₅₀	Invertebrates	None known
	EC ₅₀	Algae	None known

Persistence and Degradability:

Not determined

Bioaccumulative Potential:

Not determined

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Mobility in Soil:

Not determined.

Other adverse effects (such as hazardous to the ozone layer):

None known

SECTION 13: Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.

Product

Dispose of waste materials in accordance with applicable local and national laws and regulations. Where possible, recycling is preferred to disposal or incineration. Contact the proper local authorities.

Contaminated packaging

Since emptied containers retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport Information

UN number: Not classified as dangerous goods

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group, if applicable: Not applicable

Environmental hazards

Marine pollutant: No

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

Not applicable

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.

None known

SECTION 15: Regulatory Information

USA:

United States Federal Regulations: This SDS complies with the OSHA, 29 CFR 1910.1200. The product is not classified as hazardous under OSHA.

Toxic Substances Control Act (TSCA) – Water, Sucrose, L-Ascorbic acid and Phosphoric acid, potassium salt (1:1) are listed on the U.S. EPA TSCA Inventory List. Gelatin is listed as a substance exempt from reporting under the Inventory Update

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Reporting Rule, i.e., Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).

Emergency Planning and Community Right To-Know Act (EPCRA)

Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A): None of the components are listed

SARA HAZARD DESIGNATION SECTIONS 311/312 (40 CFR 370 (amended 2018)):

None known

Section 313 Toxic Chemicals (40 CFR 372.65):

None of the components are listed

STATE REGULATIONS:

This SDS contains specific health and safety data that is applicable for state requirements. For details on your regulatory requirements, you should contact the appropriate agency in your state.

California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986): None of the components are listed

Massachusetts Right to Know: None of the components are listed on the Massachusetts Right to Know list.

New Jersey Right to Know None of the components are listed on the New Jersey Right to Know List.

Pennsylvania Right to Know: Sucrose and Proteinase K are listed on the Pennsylvania Right to Know List.

SECTION 16: Other Information

DISCLAIMER:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.