

SAFETY DATA SHEET

	Section 1. Identification
Product Identifier	NitaBiome microbiome collection tubes: cat no: NBK001,
	NitaBiome microbiome collection buffer: cat no: NBB020, NBB050
Application	Stabilization of microbes and DNA
Supplier/Manufacturer	NitaBiome Inc, a subsidiary of mediXgraph Inc 29528 Union City Blvd, Union City, CA 94587 USA Email: <u>info@nitabiome.com</u> Website: http://nitabiome.com/ Emergency Telephone Number For information US call: +1-805-296-2757

Section 2. Hazards Identification

Classification This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 3
Serious Eye Damage/Eye Irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
(Narcotic effects)	Category 5
	Cotocom: 2
Specific target organ toxicity - (repeated exposure)	Category 2
(Target Organs - Kidney, Liver)	
GHS Label elements	
Hazard pictograms	
Signal word	Warning
Hazard statements	H226 - Flammable liquid and vapor
	H319 - Causes serious eye irritation.
	H336 - May cause drowsiness and dizziness.
Prevention	Wear protective gloves. Wear eye or face protection. Keep
	away from heat, hot surfaces, sparks, open flames and other
	ignition sources. No smoking.
	Use explosion-proof electrical, ventilating, lighting and all
	material-handling equipment.
	Use only non-sparking tools.
	Take precautionary measures against static discharge.
	Keep container tightly closed.
	Use only outdoors or in a well-ventilated area.
	Avoid breathing vapor.
	Wash hands thoroughly after handling.
Responses	IF INHALED: Remove person to fresh air and keep

	comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	Store in a well-ventilated place. Keep container tightly closed Store locked up. Keep cool.
Disposal	Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)	
Physical hazards not otherwise classified (PHNOC)	None known
None known. Health hazards not otherwise classified (HHNOC)	None known

Section 3. Composition/information on ingredients			
Substance/mixture Mixtures			
Other means of identification Not available			
CAS number/other identifiers			
CAS number Not applicable			
Product code Not available			
Ingredient name Isopropyl alcohol < 30% CAS No: 67-63-0			
	Bromothymol Blue < 5% CAS No: 76-59-5		
Any concentration shown as a range is to pr	rotect confidentiality or is due to batch variation.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4. First aid measures		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.	
Inhalation	Move to fresh air. Obtain medical attention. If not breathing, give artificial respiration.	
Ingestion	Do not induce vomiting. Obtain medical attention	
Most important symptoms and effects	Breathing difficulties. May cause central nervous system depression: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.	
Notes to Physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	
Specific treatments	No specific treatment.	
Protection of first-aiders	No action shall be taken involving any personal risk or without	

suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Section 5. Fire-fighting measures		
Suitable extinguishing media	Use dry chemical, CO ₂ , water spray (fog) or foam	
Unsuitable extinguishing media	Do not use water jet or water-based fire extinguishers.	
Specific hazards arising from the chemical	Combustible liquid.	
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide	
Special protective actions for fire-fighters	Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.	
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.	

Section 6. Accidental release measures Personal precautions, protective equipment and emergency procedures		
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".	
Environmental precautions	Avoid dispersal 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)	
Methods and materials for containr	nent and cleaning up	
Spill	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, watercourses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.	

Section 7. Handling and storage		
Personal precautions for safe handling		
Protective measures	Put on appropriate personal protective equipment (see Section 8). Do not	

	ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational	Eating, drinking and smoking should be prohibited in areas where this
hygiene	material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional
	information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Store at 15°C to 30°C

Section 8. Exposure controls/Personal Protection

Control parameters United States

Occupational exposure limits

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL(TWA)
Isopropyl alcohol	TWA: 200 ppm STEL: 400 ppm	Vacated) TWA: 400 ppm (Vacated) TWA: 980 mg/m ³ (Vacated) STEL: 500 ppm (Vacated) STEL: 1225 mg/m ³ TWA: 400 ppm TWA: 980 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³	TWA: 400 ppm TWA: 980 mg/m3 STEL: 500 ppm STEL: 1225 mg/m ³

Section 9. Physical and Chemical Properties		
Appearance		
Physical state	Liquid	
Color	Blue	
Odor	Odorless	
Odor threshold	Not available	
pH	10.5	
Melting point	Not available	
Boiling point	Not available	
Flash pint	Not determined	
Evaporation rate	Not available	
Flammability (solid, gas)	Not available	

Lower and upper explosive (flammable) limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Solubility	Not available
Partition coefficient; n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Volatility	Not available

Section 10. Stability and reactivity		
Reactivity	No specific test data related to reactivity available for this product or its	
	ingredients.	
Chemical Stability	This product is stable.	
Possibility of hazardous reaction	Under normal conditions of storage and use, hazardous reactions will not	
	occur.	
Condition to avoid	Avoid all possible sources of ignition (spark or flame). Do not pressurize,	
	cut, weld, braze, solder, drill, grind or expose containers to heat or sources	
	of ignition.	
Incompatible materials	Reactive or incompatible with the following materials: oxidizing	
	materials, acids and alkalis.	
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition	
	products should not be produced.	

Section 11. Toxicological information

Acute toxicity

Product information (a) Component information

(a) Component informati	on			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Isopropyl alcohol	5840 mg/kg (Rat)	13900 mg/kg (Rat) 12870 mg/kg (Rabbit)	72.6 mg/L (Rat) 4 hr	
Toxicologically Synergistic Products No information available				
Chemical Stability	This prod	uct is stable.		
Irritation Irritating		to eyes and skin.		
Sensitization	No inforn	No information available.		
Carcinogenicity	Carcinogenicity The table b		gency has listed any ingredient as	
	a carcinog	gen.		

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Isopropyl alcohol	67-63-0	Not listed				

Mutagenic Effects	No information available	
Reproductive Effects	No information available	
Developmental Effects	No information available	
Teratogenicity	No information available	
STOT-single exposure	Respiratory system Central nervous system (CNS)	

Product information

(b) Component information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Bromothymol blue	No data	No data	No data	
Skin irritation or corrosio	n	May cause irritation		
Eye irritation or corrosion	l	May cause irritation		
Sensitization	on No sensitizing effects known			
Germ cell mutagenicity		No effects known		
Carcinogenicity		No classification data of	n carcinogenic properties of this	
		material		
Reproductive toxicity		No effects known		
Aspiration hazard	Aspiration hazard No effects known			
Subacute to chronic toxic	ity	No effects known		

Section 12. Ecological Information

Ecotoxicity

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Isopropyl alcohol	EC50: > 1000 mg/L, 72h (Desmodesmus subspicatus) EC50: > 1000 mg/L, 96h (Desmodesmus subspicatus)	LC50: > 1400000 µg/L, 96h (Lepomis macrochirus) LC50: = 9640 mg/L, 96h flow- through (Pimephales promelas) LC50: = 11130 mg/L, 96h static (Pimephales promelas)	= 35390 mg/L EC50 Photobacterium phosphoreum 5 min	13299 mg/L EC50 = 48 h 9714 mg/L EC50 = 24 h
Persistence and Deg	radability	Persistence is unlikely based of	n information availab	le
Bioaccumulation/ A	ccumulation	No information available		

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MAD	D 1	11117
Mol		

Will likely be mobile in the environment due to its volatility.

LogPow
0.05

(b) Component information

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Bromothymol blue	No data	No data	No data	No data
Persistence and Degr	l radability	No relevant information a	vailable	
Bioaccumulation/ Ac	ccumulation	No relevant information a	vailable	
Mobility in soil		No relevant information a	vailable	
Additional ecologica	l information			
General Notes:	Do not allow material to be released to the environment without governmental permits. Do not allow large quantities to reach gro or sewage systems. Avoid transfer into the environment.		ities to reach ground water	

Section 13. Disposal consideration		
Disposal methods	The generation of waste should be avoided or minimized wherever	

possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

DOT	•
UN-Number	No regulated
Proper shipping name	Not available
Hazard Class	Not available
Packing Group	Not available
Environmental hazard	No
TDG / NOM-003-SCT	
UN-Number	No regulated
Proper shipping name	Not available
Hazard Class	Not available
Packing Group	Not available
Environmental hazard	No
IMDG	
UN-Number	No regulated
Proper shipping name	Not available
Hazard Class	Not available
Packing Group	Not available
Environmental hazard	No
IATA	
UN-Number	No regulated
Proper shipping name	Not available
Hazard Class	Not available
Packing Group	Not available
Environmental hazard	No
Special Precautions for user	Transport within user's premises: always transport in closed containers
	that are upright and secure. Ensure that persons transporting the product
	know what to do in the event of an accident or spillage.

Section 15. Regulatory information					
U.S. Federal regulations	United States inventory (TSCA 8b): Not determined.				
Clean Air Act Section 112	No listed				
(b) Hazardous Air					
Pollutants (HAPs)					
Clean Air Act Section 602	No listed				
Class I Substances					
Clean Air Act Section 602	No listed				
Class II Substances					

DEA List I Chemicals	No listed
(Precursor Chemicals)	
SARA 302/304	
Composition/information on ingredients	No products were found
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SARA 304 RQ	Not applicable
SARA 311/312	
Classification	Fire hazard
	Immediate (acute) health hazard
SARA 313	No products were found

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Isopropyl alcohol	15-30%	Yes	No	No	Yes	No
Bromothymol blue	0.5-5%	No	No	No	No	No

State regulations

California Pro. 65 New York Massachusetts No products were found. None of the components are listed The following components are listed: Isopropyl Alcohol

International regulations	
China	Not determined.
Japan	Not determined.
Europe	Not determined.
Taiwan	Not determined.

Section 16. Other information				
Date of issue mm/dd/yyyy	05/30/2018			
Date of previous issue	Not available			
Version	1			
Prepared by	NitaBiome, Inc			