SAFETY DATA SHEET

Issuing Date	30-Mar-2020	Revision Date	30-Mar-2020	Revision Number 1
1. Identific	ation			
Product ident	ifier_			
Product Name	9	ALTAIO Hand Sanitizer	Spray	
Other means	of identification			
UN/ID no		UN1170		
Other informa	ation	Per the Food and Drug Administration (FDA) "Policy for Temporary Compounding of Certain Alcohol-Based Hand Sanitizer Products During the Public Health Emergency Immediately in Effect Guidance for Industry". https://www.fda.gov/media/136118/download.		
		grade ingredients in th	compounded using only United States P ne preparation of the product (percentag nt with World Health Organization (WHO	ge in final product
		handling and proper u unintended exposures package insert or proc	e product. This SDS contains useful info se of the product for industrial workpla as might occur with large spills. Cons duct label for appropriate consumer-spe ed according to manufacturer's directior	ce conditions as well as sumers: Refer to the ecific information about

Recommended use of the chemical and restrictions on use

Recommended use Hand sanitizer

Restrictions on use

No information available

Details of the supplier of the safety data sheet

Manufacturer Address

Bionateo Sp. z o.o. UI. Chocimska 6 62-800 Kalisz, Poland 0048625977688

Emergency telephone number

Emergency Telephone 0048575285885

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard	d (29 CFR 1910.1200)
Serious eye damage/eye irritation	Category 2A
Flammable liquids	Category 2

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Danger

Hazard statements

Highly flammable liquid and vapor. Causes serious eye irritation.



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ ventilating/ lighting/ equipment Use only non-sparking tools Take precautionary measures against static discharge Wear protective gloves/eye protection/face protection

Precautionary Statements - Response

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 advice/attention IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

May be harmful if inhaled. Causes mild skin irritation. May cause drowsiness or dizziness.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No	Weight-%	Trade secret
Ethanol	64-17-5	80	
Water	7732-18-5	18.425	
Glycerin	56-81-5	1.45	
Hydrogen peroxide	7722-84-1	0.125	

4. First-aid measures

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.	
Inhalation	Remove to fresh air.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.	
Skin contact	None under normal use conditions. If skin irritation occurs: Get medical advice/attention.	
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.	
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.	
Most important symptoms and effe	cts, both acute and delayed	
Symptoms	May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may cause redness and irritation.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

5. Fire-fighting measures

Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.
Unsuitable extinguishing media	None known based on information supplied.
Specific hazards arising from the chemical	Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge	Yes.
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Special protective equipment for	Firefighters should wear self-contained breathing apparatus and full firefighting turnout
fire-fighters	gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.		
Other information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.		
Methods and material for containment and cleaning up			
Methods for containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.		
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.		

7. Handling and storage

Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage ConditionsKeep containers tightly closed in a dry, cool and well-ventilated place. Keep away from
heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static
electricity). Keep in properly labeled containers. Do not store near combustible materials.
Keep in an area equipped with sprinklers. Store in accordance with the particular national
regulations. Store in accordance with local regulations.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Ethanol	STEL: 1000 ppm	TWA: 1000 ppm	IDLH: 3300 ppm
64-17-5		TWA: 1900 mg/m ³	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1900 mg/m ³
		(vacated) TWA: 1900 mg/m ³	-
Glycerin	-	TWA: 15 mg/m ³ mist, total	-
56-81-5		particulate	
		TWA: 5 mg/m ³ mist, respirable	
		fraction	
		(vacated) TWA: 10 mg/m ³	
		mist, total particulate	
		(vacated) TWA: 5 mg/m ³ mist,	
		respirable fraction	
Hydrogen peroxide	TWA: 1 ppm	TWA: 1 ppm	IDLH: 75 ppm
7722-84-1		TWA: 1.4 mg/m ³	TWA: 1 ppm
		(vacated) TWA: 1 ppm	TWA: 1.4 mg/m ³
		(vacated) TWA: 1.4 mg/m ³	

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch as personal protective equipment
Eye/face protection	Tight sealing safety goggles.
Hand protection	Wear suitable gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	
Physical state	Liquid
Color	Colorless
Odor	Alcohol
Odor threshold	No data available

Description	Malaaa	Demonster Mothered
Property	<u>Values</u> No data available	Remarks • Method None known
pH Molting point / fronzing point	No data available	None known
Melting point / freezing point	78.3 °C / 172.9 °F	NOTE KIOWI
Boiling point / boiling range	17.5 °C / 63.5 °F	
Flash point	No data available	None known
Evaporation rate		None known
Flammability (solid, gas)	No data available	
Flammability Limit in Air	NI 17 111	None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information		
	formation available.	
	formation available.	
	formation available	
· · · · · · · · · · · · · · · · · · ·	formation available	
	formation available	
	formation available	
Bulk density No int	formation available	

10. Stability and reactivity

Reactivity	None under normal use conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information	
Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May be harmful if inhaled. May cause drowsiness or dizziness.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
Skin contact	Specific test data for the substance or mixture is not available. Causes mild skin irritation.

	Prolonged contact may cause redness and irritation.	
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.	
Symptoms related to the physical, chemical and toxicological characteristics		
Symptoms May cause redness and tearing of the eyes. Prolonged contact may cause redness		

May cause redness and tearing of the eyes. Prolonged contact may cause redness and irritation.

Acute toxicity

Numerical measures of toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethanol 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat)4 h
Water 7732-18-5	> 90 mL/kg (Rat)	-	-
Glycerin 56-81-5	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m ³ (Rat)1 h
Hydrogen peroxide 7722-84-1	= 1518 mg/kg (Rat)	= 9200 mg/kg (Rabbit)	= 2000 mg/m³ (Rat)4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Classification based on data available for ingredients. May cause skin irritation.	
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.	
Respiratory or skin sensitization	No information available.	
Germ cell mutagenicity	No information available.	
Carcinogenicity	Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage. Based on available data, the classification criteria are not met.	

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Ethanol 64-17-5	A3	Group 1	Known	Х
Hydrogen peroxide 7722-84-1	A3	Group 3	-	-

Legend

 ACGIH (American Conference of Governmental Industrial Hygienists)

 A3 - Animal Carcinogen

 IARC (International Agency for Research on Cancer)

 Group 1 - Carcinogenic to Humans

 Group 3 - Not Classifiable as to Carcinogenicity in Humans

 NTP (National Toxicology Program)

 Known - Known Carcinogen

 OSHA (Occupational Safety and Health Administration of the US Department of Labor)

 X - Present

 Reproductive toxicity

 No information available.

 STOT - single exposure

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STOT - repeated exposure	No information available.

Target organ effects	Eyes, Skin, Respiratory system.
Aspiration hazard	No information available.
Other adverse effects	No information available.
Interactive effects	No information available.

12. Ecological information

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethanol 64-17-5	-	LC50: 12.0 - 16.0mL/L (96h, Oncorhynchus mykiss) LC50: 13400 - 15100mg/L (96h, Pimephales promelas) LC50: >100mg/L (96h, Pimephales promelas)	-	LC50: 9268 - 14221mg/L (48h, Daphnia magna) EC50: =2mg/L (48h, Daphnia magna)
Glycerin 56-81-5	-	LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss)	-	-
Hydrogen peroxide 7722-84-1	-	LC50: 18 - 56mg/L (96h, Lepomis macrochirus) LC50: =16.4mg/L (96h, Pimephales promelas) LC50: 10.0 - 32.0mg/L (96h, Oncorhynchus mykiss)	-	EC50: 18 - 32mg/L (48h, Daphnia magna)

Persistence and degradability

No information available.

Bioaccumulation

There is no data for this product.

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Component Information		
Chemical name	Partition coefficient	
Ethanol	-0.32	
64-17-5		
Glycerin	-1.76	
56-81-5		

Other adverse effects

No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused products	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste Status
Ethanol 64-17-5	Toxic Ignitable
Hydrogen peroxide 7722-84-1	Toxic Corrosive Ignitable Reactive

UN1170, ETHANOL SOLUTION, 3, II, (17.5°C C.C.)

14. Transport information

Note:

This is a consumer product and as such may usually be shipped as ORM-D (other regulated materials for domestic transport only) Consumer Commodity for transport within the United States. While this product is a hazardous material, it may be shipped in a limited quantity that presents a limited hazard during transportation, due to its form, quantity, and packaging. The information listed below is for shipping bulk material.

|--|

2.0.1	
UN/ID no	UN1170
Proper shipping name	ETHANOL SOLUTIONS
Hazard class	3
Packing group	II
Special Provisions	24, IB2, T4, TP1
DOT Marine Pollutant	NP
Description	UN1170, ETHANOL SOLUTIONS, 3, II
Emergency Response Gu	ide 127
Number	
UN number	UN1170
UN proper shipping name	Ethanol solution
Transport hazard class(es	s) 3
Packing group	II
ERG Code	3L
Special Provisions	A180, A3, A58
Description	UN1170, Ethanol solution, 3, II
IMDG	
UN number	UN1170
UN proper shipping name	ETHANOL SOLUTION
Transport hazard class(es	s) 3
Packing group	II

F-E, S-D

NP

144

EmS-No

Description

Marine pollutant Special Provisions

15. Regulatory information

International Inventories

TSCA

Chemical name	CAS No	US TSCA Inventory listing	US TSCA active/inactive designation
Ethanol	64-17-5	Present	Active
Water	7732-18-5	Present	Active
Glycerin	56-81-5	Present	Active
Hydrogen peroxide	7722-84-1	Present	Active

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Hydrogen peroxide 7722-84-1	-	1000 lb

US State Regulations

California Proposition 65

Ethyl alcohol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage. This product contains the following Proposition 65 chemicals:

Chemical name	California Proposition 65	
Ethanol - 64-17-5	Carcinogen	
	Developmental	

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethanol 64-17-5	Х	X	Х
Glycerin 56-81-5	Х	Х	Х
Hydrogen peroxide 7722-84-1	Х	Х	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information of the second s	ation				
<u>NFPA</u>	Health hazards	2 Flammabi	lity 3	Instability 0	Physical and chemical properties -
HMIS	Health hazards	2 Flammabi	lity 3	Physical hazards 0	Personal protection X
Key or legend to abbre	eviations and acron	iyms used in the s	afety data s	heet	
	A (time-weighted ave imum limit value es and sources for	erage) • data used to com	STEL *	STEL (Short Te Skin designatio	erm Exposure Limit) on
U.S. Environmental Prod European Food Safety A EPA (Environmental Prod Acute Exposure Guidelin U.S. Environmental Prod U.S. Environmental Prod Food Research Journal Hazardous Substance D International Uniform Ch Japan GHS Classification Australia National Indus NIOSH (National Institut National Library of Medi National Library of Medi National Toxicology Pro New Zealand's Chemica Organization for Econor	tection Agency Cherr Authority (EFSA) otection Agency) ne Level(s) (AEGL(s) tection Agency Fedel tection Agency High Database nemical Information E on trial Chemicals Notifi te for Occupational S cine's ChemID Plus cine's PubMed datab gram (NTP) al Classification and I nic Co-operation and nic Co-operation and	nView Database)) eral Insecticide, Fun Production Volume Database (IUCLID) ication and Assess Safety and Health) (NLM CIP) base (NLM PUBME Information Databa d Development Env d Development Higl	Chemicals ment Scheme D) se (CCID) ironment, He n Production	e (NICNAS) alth, and Safety Publicat Volume Chemicals Prog	
Issuing Date	27-M	1ar-2020			
Revision Date	27-M	1ar-2020			
	ded in this Safety Da				formation and belief at the

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet