

Issue Date: 04/11/2020
Last Revision Date: 10/08/2023
Superseded Date: 28/09/2021
Version Number: 03

SAFETY DATA SHEET

Product Code: LIVSAN1000N2

PAGE 1 OF 7

SECTION 1 PRODUCT IDENTIFICATION

Product Name Livingstone Antibacterial Hand and All-Purpose Sanitising Gel
Chemical Name Hand Sanitiser

SECTION 2 HAZARD IDENTIFICATION

GHS Classification Flammable liquids 2
Skin corrosion/irritation 2
Serious eye damage/eye irritation 2A

Gi4S Pictograms



Signal words Danger -

Hazard statements H225: Highly flammable liquid and vapour
H315: Causes skin irritation
H319: Causes serious eye Irritation

Precautionary Statement P210 Keep away from heat/sparks/open flames/hot surfaces.-No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P264: Wash hands thoroughly after handling.-
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statement Response P302+P352: IF ON SKIN: Wash with plenty of water.
P303+p361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+p338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321: Specific treatment (see the supplemental first aid instruction).
P332+P313: If skin irritation occurs: Get medical advice/attention.
P337+p313: If eye irritation persists: Get medical advice/attention.
P362+p364: Take off immediately contaminated clothing and wash it before reuse.
P370+P378: In case of fire: Use extinguisher to extinguish.

Precautionary Statement Storage P403+P235: Store in a well-ventilated place. Keep cool.

Precautionary Statement P501: Dispose of contents/container in according with local regulation.

Other hazards which do not result in classification Not available.

Issue Date: 04/11/2020
Last Revision Date: 10/08/2023
Superseded Date: 28/09/2021
Version Number: 03

SAFETY DATA SHEET

Product Code: LIVSAN1000N2

PAGE 2 OF 7

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substances Mixtures Component Information

Component	CAS number	EINECS number	Mass(%)
ALCOHOL	64-17-5	200-578-6	75.0%wt
WATER	7732-18-5	231-791-2	24.3 % wt
CARBOMER	9062-04-8	--	0.4%wt
TRIETHANOLAMINE	102-71-6	203-049-8	0.3%wt

Note : 1. Unless a component presents a severe hazard, it does not need to be considered in the SDS if the concentration is less than 1 %

SECTION 4 FIRST AID MEASURES

NOTE TO PHYSICIAN

In case of shortness of breath, give oxygen. Keep victim warm.
Keep victim under observation. Symptoms may be delayed.

After inhalation

Move to fresh air. Oxygen or artificial respiration if needed. Get immediate medical attention.

After skin contact

Immediately flush skin with plenty of water. Remove and isolate contaminated clothing and shoes.--If irritation persists, get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.

After eye contact

Immediately flush eyes with plenty of water for at least 15 minutes-. Assure adequate flushing of the eyes by separating the eyelids with fingers. Get medical attention immediately.

After ingestion

Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Loosen tight clothing such as a collar, tie, belt or waistband.- Do not use mouth-to-mouth_ method if victim ingested the substance. Seek immediate medical attention.

Most important symptoms/efferts, acute and delayed

Causes skin irritation. Causes serious eye irritation.

SECTION 5 FIRE FIGHTING MEASURES

Suitable extinguishing agents

Water spray, foam, CO21 dry chemical Suitable extinguishing powder,sandy soil. _

Special hazards caused by the material, its products of combustion or flue gases

Can be released in case of fire:
Carbon monoxide, carbon dioxide, nitrogen oxides.

Protective equipment for fire-fighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus protective clothing and face mask.

Issue Date: 04/11/2020
Last Revision Date: 10/08/2023
Superseded Date: 28/09/2021
Version Number: 03

SAFETY DATA SHEET

Product Code: LIVSAN1000N2

PAGE 3 OF 7

SECTION 6 ACCIDENTAL RELEASE MEASURES

Person-related safety precautions

Ensure adequate ventilation. Remove all sources of ignition, Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Ventilate closed spaces before entering. Keep unnecessary personnel away.

Measures for environmental protection

Prevent further leakage or spillage if safe to do so. Do not allow material to be released to the environment without proper governmental permits.

Measures for cleaning/collecting

Contain spillage, and then collect with non-combustible absorbent material(e.g. sand, earth, diatomaceous earth, vermiculite) and place in suitable container. Clean contaminated surface thoroughly.

Additional information

See Section 7 for information on safe handling
See section 8 for information on personal protection equipment:
See Section 13 for information on disposal.

SECTION 7 HANDLING AND STORAGE

Handling

Information for safe handling

Avoid breathing vapors, mist or gas, Keep out of reach of children.
In case of insufficient ventilation, wear suitable respiratory equipment if Ingested.

Information about protection against explosions and fires

Don't put near the hot water or heat sink, stove, or other heat sources.
Keep away from open fire or heat.

Storage

Requirements to be met by storerooms and containers

Do not put it in more than 50 °C or damp place. Store in a cool, dry place below 50°C
Put it away from the touch of kids. Keep container closed.

Information about storage in one common storage facility

Can not be mixed with flammable and explosive goods, etc.. Prevent the sun- rain and heavy pressure.
Store away from incompatible substances such as strong oxidizing agents, acidic materials.

Further information about storage conditions

No data.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Limit Values for Exposure

Component	CAS number	ACGIH TLV-TWA	ACGIH TLV-STEL	NIOSH PEL-TWA	NIOSH PEL-STEL
ALCOHOL	64-17-5	N.E.	1,880 ACGIHmg/m ³	1,900mg/m ³	N.E.
CARBOMER	9062-04-8	N.E.	N.E.	N.E.	N.E.
TRIETHANOLAMINE	102~71-6.-	5 mg/m ³	N.E.	N.E.	N.E.
Appropriate engineering Controls	Facilities storing or utilizing this material should be equipped, with an eyewash and a safety shower facility.				
General protective and hygienic measures	Do not get this material in contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday				
Personal protective equipment	Dust masks, air apparatus, safety glasses, protective clothing, latex gloves.				
Breathing equipment	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.				
Protection of hands	Wear appropriate chemical resistant gloves.				
Eye/Face protection	Use safety glasses with side shields or safety goggles as mechanical barrier for prolonged exposure,				
Body protection	Full set of anti chemical reagent overalls, flame retardant antistatic protective clothing, choose body protection according to the amount and concentration of the dangerous substance at the work place.				

Information provided on this document is presented in good faith and believed to be correct based on the best data currently available, Livingstone International makes no representations or warranties, expressed or implied as to the completeness or accuracy of the information. In no event will Livingstone International be liable for any errors or omissions in the information provided herein. Information is supplied upon the condition that any persons or corporate receiving same will make independent determination as to its suitability for their own purposes prior to use, and in no event will Livingstone International be responsible for damages of any nature whatsoever resulting from the use of product or reliance upon information provided. Information is provided on an "as is" basis, no representation or warranties, either expressed or implied of fitness for a particular purpose or of any other nature are made herein with respect to information of the product.

Issue Date: 04/11/2020
Last Revision Date: 10/08/2023
Superseded Date: 28/09/2021
Version Number: 03

SAFETY DATA SHEET

Product Code: LIVSAN1000N2

PAGE 4 OF 7

SECTION 9 PHYSICAL/CHEMICAL PROPERTIES

Appearance (physical state, colour etc)	Colorless viscous liquid
Odour	Faint smell
pH	6.5~8.0 (Concentration: 10 % , Temperature:25°C) -
Melting point/freezing point	<0 °C
Boiling point and boiling	No data available
Flash point	21.0 °C (closed cup)
Evaporation rate	No data available
Flammability	Highly flammable
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density(air-l)	No data available
Density/Relative density	0.9 (25°C)
Solubility(water)	Soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

SECTION 10 STABILITY AND REACTIVITY

Chemical stability	Stable under normal temperature.
Possibility of hazardous reactions	No polymerization.
Conditions to avoid (e.g. static discharge, shock or vibration)	Heat and flame and spark. The extreme temperatures and direct sunlight.
Incompatible materials	Avoid contact with strong oxidizing agents, acidic materials.
Hazardous decomposition products	May Include carbon monoxide, carbon dioxide, nitrogen oxides.

Issue Date: 04/11/2020
 Last Revision Date: 10/08/2023
 Superseded Date: 28/09/2021
 Version Number: 03

SAFETY DATA SHEET

Product Code: LIVSAN1000N2

PAGE 5 OF 7

SECTION 11 TOXICOLOGICAL INFORMATION

This product is a preparation for which no toxicological data exists. When available, toxicological data for the product's hazardous ingredients are provided below. Routes of Entry: Dermal contact, eye contact, inhalation, ingestion.

Acute Toxicity

ALCOHOL (CAS 64-17-5)	LD50 (Oral,rat) 7,060 mg/kg LC50 (Inhalation,rat) 124.7 mg/l (4 h) LD50 (Dermal,rabbit) N/A
CARBOMER 9062-04-8)	(CAS LD50-. (oral,rat)= >1,000 mg/kg LC50 (Inhalation,rati N/A LD50 (Dermal,rabbit) N/A
TRIÉTHANOLAMINE	(CAS LD50 - (Oral, gutnea pig)_ 2,200 mg/kg LC50 (Inhalation,rat) N/A LD50 _-(Dermal,rabbit) :=>22,500 mg/kg
Skin corrosion/Irritation	Causes skin irritation.
Serious damage/irritation	eye_ Causes_ severe eye irritation, conjunctiva redness and swelling.
Respiratory or sensitization	No data available for this chemical.
Germ cell mutagenicity	No data available for this chemical
Carcinogenicity	No data available for this chemical.
Reproductive toxicity	No data available for this chemical.
STOT~single exposure	No data available for this chemical.
STOT-repeated exposure	No data available for this chemical.
Aspiration hazard	No data available for this chemical.
Chronic Effects	No data available for this chemical.
Further Information	No data available for this chemical.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity

ALCOHOL (CAS 64-17-5)
Test & Species
96 Hr LC50 fish: 11,000 mg/l
24 Hr EC50 Daphnia: > 10,000 mg/l
72 Hr EC50 Algae: N/A
TRIETHANOLAMINE (CAS 102-71-6)
Test & Species
96 Hr LC50 fish: 450-1,000 mg/l
48 Hr EC50 Daphnia: 609.98 mg/l
72 Hr EC50 Algae: N/A

Persistence and degradability	Not available
Bioaccumulative potential	No bioaccumulative.
Mobility in soil	Not available
Additional Information	Not available

Information provided on this document is presented in good faith and believed to be correct based on the best data currently available, Livingstone International makes no representations or warranties, expressed or implied as to the completeness or accuracy of the information. In no event will Livingstone International be liable for any errors or omissions in the information provided herein. Information is supplied upon the condition that any persons or corporate receiving same will make independent determination as to its suitability for their own purposes prior to use, and in no event will Livingstone International be responsible for damages of any nature whatsoever resulting from the use of product or reliance upon information provided. Information is provided on an "as is" basis, no representation or warranties, either expressed or implied of fitness for a particular purpose or of any other nature are made herein with respect to information of the product.

Issue Date: 04/11/2020
Last Revision Date: 10/08/2023
Superseded Date: 28/09/2021
Version Number: 03

SAFETY DATA SHEET

Product Code: LIVSAN1000N2

PAGE 6 OF 7

SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL INSTRUCTIONS Contact a licensed professional waste disposal service to dispose of this material.
Dispose of in accordance with local environmental regulations or local authority requirements

SECTION 14 TRANSPORT INFORMATION

The Recommendation of Transport of Dangerous Goods(TDG)

UN Number UN 1170
Proper Shipping Name ETHANOL SOLUTION
Class/Division Class 3 Flammable Liquids
Package Group PGII
Subsidiary risk labelling program None



Maritime transport Being same with TDG/ No
IMDG/ Marine pollutant (Yes/No)
Air transport ICAO-TI and IATA-DGR Being same with TDG

SECTION 15 REGULATORY INFORMATION

European/International Regulations
OSHA: Hazardous by definition of Hazard Communication Standard(29CFR 1910.1200).
EINECS Status: ALCOHOL (CAS 64-17-5), WATER (CAS 7732-18-5) and TRIETHANOLAMINE (CAS 102-71-6) are included in EINECS inventory,
EPA TSCA Status: ALCOHOL (CAS 64-17-5), WATER (CAS 7732-18-5) and TRIETHANOLAMINE (CAS 102-71-6) are included in TSCA inventory.
Canadian DsL(Domestic Substances List): ALCOHOL (CAS 64-17-5), WATER (CAS 7732-18-5), CARBOMER (CAS 9062-04-8) and TRIETHANOLAMINE (CAS 102-71-6) are included in DSL
HMIs(Hazardous Material Identification System Ratings): Health: 2
Flammability: 3
Personal protection: E
(4. Severe Hazard. 3. Serious Hazard; 2. Moderate Hazard; 1. Slight Hazard; 0. Minimal Hazard)
WHMIS(Canadian Workplace Hazardous Material Identification System Ratings): B2,D2B (ALCOHOL).
GB 12268-2012 List of dangerous goods This product is a dangerous goods on the GB 12268-2012 list of dangerous goods.

Information provided on this document is presented in good faith and believed to be correct based on the best data currently available, Livingstone International makes no representations or warranties, expressed or implied as to the completeness or accuracy of the information. In no event will Livingstone International be liable for any errors or omissions in the information provided herein. Information is supplied upon the condition that any persons or corporate receiving same will make independent determination as to its suitability for their own purposes prior to use, and in no event will Livingstone International be responsible for damages of any nature whatsoever resulting from the use of product or reliance upon information provided. Information is provided on an "as is" basis, no representation or warranties, either expressed or implied of fitness for a particular purpose or of any other nature are made herein with respect to information of the product.

Issue Date: 04/11/2020
Last Revision Date: 10/08/2023
Superseded Date: 28/09/2021
Version Number: 03

SAFETY DATA SHEET

Product Code: LIVSAN1000N2

PAGE 7 OF 7

SECTION 16 OTHER INFORMATION

This Material Safety Data Sheet was based on the "Globally Harmonized System of Classification and Labelling of Chemicals" Recommendations on the TRANSPORT OF DANGEROUS GOODS - Model Regulations, INTERNATIONAL-MARITIME DANGEROUS GOODS CODE, International Air Transport Association Dangerous Goods Regulations" the National Standards and other related dangerous chemicals management laws, regulations and standards, which are periodically updated and changed. To make dangerous goods / hazardous chemicals comply with the relevant requirements of the latest management, regularly update is recommended. This Material Safety Data Sheet has been compiled in both English and Chinese. For any discrepancies, the Chinese version shall prevail.

Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail
IMDG: International Maritime Code for Dangerous Goods
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization. (ICAO)
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

Reason for Revision:

To bring to date

END OF SDS