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*Prepared according to GB/T 17519 and GB/T 16483

1. Identification of the mixture and supplier

Product identifier

Product name	Disinfectant Spray
Product from	Mixtures
CAS No.	Not applicable
EC No.	Not applicable

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	For surface disinfection
Uses advised against	Not applicable to food production

Details of the supplier of the safety data sheet

Name of the company	NANOFIXIT VENTURES INC.
Address of the company	Lot IL-2 Building B, Unit 4, 2nd Floor, Subic Bay Gateway Park, Phase-2, Subic Bay Freeport Zone, Olongapo, Zambales, Philippines
Post code	2222
E-mail address	sales@nanofixit.com
Fax number	+63-47-2503482
Telephone number	+63-47-2503482

Emergency phone number

Emergency phone number	+63-47-2503482
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2. Hazards identification

Emergency overview

Aerosol. Pressure vessel, explosive in case of heat

Hazard classification according to GHS

Aerosol	Category 1
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Label elements

Hazard pictogram	 
Signal word	Danger

Hazard statements

H222	Extremely flammable aerosol
H229	Pressurized container: may burst if heated
H280	Contains gas under pressure; may explode if heated

Precautionary statements

◆ Prevention

P102	Do not let children touch.
P103	Please read the label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.

◆ Response

P312	Call center / Doctor / doctor if you feel unwell
P304+P340	Such as aspiration: Move people to fresh air and keep a comfortable position.

◆ Storage

P410+P403	Protect from sunlight. Store in a well-ventilated place.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F

◆ Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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Hazard description

◆ Physical and chemical hazards

	Aerosol. Pressure vessels can explode when heated.
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◆ Health hazards

Inhaled	Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.
Ingestion	Accidental ingestion of the product may be harmful to the health of the individual.
Skin contact	This product will not cause discomfort after direct contact with the skin.
Eyes contact	This product may cause temporary discomfort following direct contact with the eye.

◆ Environment hazards

	Please refer to 12th chapter of SDS.
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3. Composition/information on ingredients

Component	Concentration (M %)	CAS No.	EC No.
Ethanol	52.26	64-17-5	200-578-6
Water	22.52	7732-18-5	231-791-2
Butane	7.5	106-97-8	203-448-7
Propane	12.5	74-98-6	200-827-9
Isobutane	5	75-28-5	200-857-2
Sodium benzoate	0.07	532-32-1	208-534-8
Triethanolamine	0.07	102-71-6	203-049-8
Perfume	0.07	/	/

4. First aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Skin contact	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Eye contact	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen.
Ingestion	Do not induce vomiting. Refer for medical attention.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent the spread of contamination.

Advice of protecting the rescuer

1	Remove all sources of ignition and increase ventilation.
2	Avoid contact with skin and eyes.
3	Avoid inhalation of vapor.
4	Use personal protective equipment including respirator.

Special note to the doctor

1	Treat symptomatically
2	Symptoms may be delayed.

5. Firefighting measures

Extinguishing media

Noncombustible substance

Special hazards arising from the substance or mixture

1	High concentrations of gas may cause asphyxiation without warning.
2	Containers may explode when heated.
3	May expansion or decompose explosively when heated or involved in fire

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

1	Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
2	Evacuate personnel to safe area. Keep people away from and upwind of spill/leak.
3	Use personal protective equipment. Avoid breathing vapors, mist or gas.

Environmental precautions

1	Prevent further leakage or spillage if safe to do so.
2	Discharge into the environment must be avoided.

Methods and material for containment and cleaning up

1	Remove all sources of ignition. Use spark proof tools and explosion proof equipment.
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2 | Do not clean-up or dispose of, except under supervision of a specialist.

7. Handling and storage

Precautions for handling

1	Handling is performed in a well ventilated place.
2	Wear suitable personal protective equipment.
3	Avoid contact with skin and eyes.
4	Keep away from heat, sparks, open flames and hot surfaces.

Precautions for storage

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Stored away from incompatible materials and foodstuff containers.
5	Storage temperature should not be higher than 40°C.

8. Exposure controls/personal protection

Control parameters

◆ Biological limit values

Biological limit values	No relevant regulations
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◆ Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard) .

Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

Personal protective equipment

	
Eye protection	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US)).
Hand protection	Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.
Respiratory protection	For most conditions, no respiratory protection should be needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
Skin and body protection	To prevent repeated or prolonged contact, wear impervious gloves (Made of rubber,

nitrile or neoprene).

9. Physical and chemical properties

Physical and chemical properties

Appearance	Transparent liquid
Odor	No irritating smell
pH	5.0-8.5
Melting point / freezing point (°C)	No irritating smell
Initial boiling point and boiling range (°C)	No irritating smell
Flash point (Closed cup, °C)	17 ± 1
Evaporation rate	Not applicable
Flammability	Non-flammable
Upper explosive limit[% (V/V)]	Upper limit :19
lower explosive limit[% (V/V)]	Lower limit: 3.3
Vapour pressure	Not applicable
Vapor density(Air =1)	No information available
Relative density (Water=1)	0.86 ± 0.05
Solubility(mg/l)	Less soluble in water, soluble in esters, ketones, benzene and other organic solvents
n-octanol / water partition coefficient	Not applicable
Auto-ignition temperature (°C)	No information available
Decomposition temperature (°C)	No information available
Viscosity(mm ² /s)	Not applicable

10. Stability and reactivity

Stability and reactivity

Chemical stability	Stable under proper operation and storage conditions.
Hazardous Polymerization	Will not occur.
Conditions to avoid	Incompatible materials, heat, flames and sparks.
Incompatible materials	Oxidants, alkali metals, alkaline earth metals and aluminum.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Acute toxicity

Component	Cas No.	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation, 4h)
Ethanol	64-17-5	7430 mg/kg (Rabbit)	No information available	No information available
Butane	106-97-8	No information available	No information available	658gm/m ³ /4H (Rat)
propane	74-98-6	No information available	No information available	No information available
isobutane	75-28-5	No information available	No information available	1041gm/m ³ /2H (mouse)
Sodium benzoate	532-32-1	4070 mg/kg	No information available	No information available
Triethanolamine	102-71-6	4920 uL/kg	No information available	2gm/m ³ /6H/3W-I (Rat)

|| Others

Alcohol spray

Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Reproductive toxicity(additional)	Based on available data, the classification criteria are not met

12. Ecological information

| Acute aquatic toxicity

Acute aquatic toxicity	No information available
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| Chronic aquatic toxicity

Chronic aquatic toxicity	No information available
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| Persistence and degradability

Persistence and degradability	No information available
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| Bioaccumulative potential

Bioaccumulative potential	No information available
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| Mobility in soil

Mobility in soil	No information available
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13. Disposal considerations

| Disposal considerations

Waste chemicals	Before disposal, please refer to relevant national and local laws and regulations. regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section 13.1 and 13.2.

14. Transport information

| Label and Mark

Transporting Label	
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Marine pollutant	None
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IMDG-CODE

UN No.	1950
UN proper shipping name	Aerosols
Packing group	Not applicable
Transport hazard class	2.1

ICAO/IATA-DGR

UN No.	1950
UN proper shipping name	Aerosols
Packing group	Not applicable
Transport hazard class	2.1
Transport subsidiary hazard class	None

UN-ADR

UN No.	1950
UN proper shipping name	Aerosols
Packing group	Not applicable
Transport hazard class	2.1
Transport subsidiary hazard class	None

Others

Methods of packing	Steel cylinders and other pressure vessels. Steel cylinders and other pressure vessel. Packaging as recommended by manufacturer.
Precautions for transport	Shipment of the goods vehicle exhaust pipe must be equipped with fire retardant devices, prohibit using mechanical equipment and tools of which easy to produce sparks. Strictly prohibited shipping or transportation with oxidants, halogens etc. Height shall not exceed the vehicle fence board, and with a triangular wooden pad cards firmly to prevent rolling. Cylinders generally flat, and the bottles should be in the same direction, should not cross. A safety helmet must be fitted for cylinder transport. Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

15. Regulatory information

International chemical inventory

Component	EINECS	DSL	IECSC	NZIoC	PICCS	KECI	AICS
Ethanol	√	√	√	√	√	√	√
Water	√	√	√	√	√	√	√
Butane propane	√	√	√	√	√	√	√

【EINECS】 European Inventory of Existing Commercial Chemical Substances

【DSL】 Canada Domestic Chemical Substances List

【IECSC】 China Inventory of Existing Commercial Chemical Substances

- 【NZIoC】 New Zealand Inventory of Chemical Substances
- 【PICCS】 Philippine Inventory of Chemicals and Chemical Substances
- 【KECI】 Korea Inventory of Existing Commercial Chemical Substances
- 【AICS】 Australia Inventory of Existing Commercial Chemical Substances

16. Others

Revision time	March 1, 2020
Revision Department	NANOFIXIT VENTURES INC.
Data review unit	NANOFIXIT VENTURES INC.
Modification description	Based on the regulations on the preparation of technical specifications for chemical safety.