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Client		Item No.	
Unit		Job No.	
Location		Doc. No.	

MATERIAL SAFETY DATA SHEET

HEALTH CARE SURFACE SANITIZER

Note:

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Remarks

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1. Product and Company Identification

Product name: EVITA HEALTH CARE SURFACE SANITIZER

Manufacturer or supplier's details

Manufacturer: Inventa Technologies (S) Pte Ltd
44A Tras Street
Singapore 078983

Supplier: Lavara Holdings Pte Ltd
44A Tras Street
Singapore 078983

Recommended use of the chemical and restrictions on use

Recommended use: Disinfectants and general biocidal products

2. Hazards Identification

GHS Classification

Flammable liquids: Category 3

GHS label elements

Hazard pictograms:



Signal word: Warning

Hazard statements: H226 Flammable liquid and vapour.

Precautionary statements:

Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces.

No smoking.

P233 Keep container tightly closed.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

Response:

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

3. Composition/Information on Ingredients

Hazardous components

Chemical name	CAS-No.	Concentration (%)
Ethyl Alcohol	64-17-5	>= 20 - < 35
Propan-2-ol	67-63-0	>= 1 - < 5

4. First Aid Measures

General advice:	In the case of accident or if you feel unwell, seek medical advice immediately.
If inhaled:	If sensitivity occurs, remove to fresh air. If symptoms persist, call a physician.
In case of skin contact:	If sensitivity occurs, wash with soap and water. Get medical attention if irritation develops and persists.
In case of eye contact:	Rinse thoroughly with plenty of water, also under the eyelids. If easy to do, remove contact lens, if worn. Get medical attention if irritation develops and persists.
If swallowed:	Rinse mouth with water. Obtain medical attention.
Protection of first-aiders:	First Aid responders should pay attention to self-protection and use the recommended protective clothing

5. Firefighting Measures

Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media:	High volume water jet
Specific hazards during fire-fighting:	Do not use a solid water stream as it may scatter and spread fire. Cool closed containers exposed to fire with water spray. Flash back possible over considerable distance. May form explosive mixtures in air. Exposure to decomposition products may be a hazard to health.
Specific extinguishing methods:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Use water spray to cool unopened containers.

Further information:

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters:

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Material can create slippery conditions.

Environmental precautions:

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water.

Methods and materials for containment and cleaning up:

Non-sparking tools should be used. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.

7. Handling and Storage

Advice on safe handling:

Avoid contact with eyes.

Conditions for safe storage:

No smoking. Take measures to prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Store in accordance with the particular national regulations..

8. Exposure Controls/Personal Protection

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethyl Alcohol	64-17-5	TWA	1,000 ppm 1,900 mg/m ³	NIOSH REL OSHA Z-1

		STEL	1,000 ppm	ACGIH
Isopropyl Alcohol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m ³	NIOSH REL
		ST	500 ppm 1,225 mg/m ³	NIOSH REL
		TWA	400 ppm 980 mg/m ³	OSHA Z-1

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Isopropyl Alcohol	67-63-0	Acetone	Urine	End of shift at end of workweek	40 mg/l	ACGIH BEI

Personal Protective Equipment

Respiratory protection:	No personal respiratory protective equipment normally required.
Eye protection:	No special measures necessary provided product is used correctly.
Skin and body protection:	No special measures necessary provided product is used correctly.
Protective measures:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.

9. Physical and Chemical Properties

Appearance:	Liquid
Color:	Colorless
Odor:	Alcohol-like
Odor Threshold:	No data available
pH:	12.6 - 12.9, (24 °C)
Melting point/range:	No data available
Initial boiling point and boiling range:	77 °C
Flash point:	30.8 °C Method: Pensky-Martens closed cup

Evaporation rate:	No data available
Flammability (solid, gas):	Not applicable
Upper explosion limit:	19 %(V)
Lower explosion limit:	3.3 %(V)
Vapour pressure:	No data available
Relative vapour density:	No data available
Relative density:	No data available
Density:	0.952 g/cm ³
Solubility(ies) Water solubility:	Soluble
Partition coefficient: n-octanol/water:	Not applicable
Auto-ignition temperature:	Not determined
Thermal decomposition:	The substance or mixture is not classified self-reactive.
Viscosity Viscosity, dynamic:	2.6 mPa.s
Explosive properties:	Not explosive
Oxidizing properties:	The substance or mixture is not classified as oxidizing.

10. Stability and Reactivity

Reactivity:	Not classified as a reactivity hazard.
Possibility of hazardous reactions:	Vapours may form explosive mixture with air.
Conditions to avoid:	Heat, flames and sparks.
Incompatible materials:	Oxidizing agents.
Hazardous decomposition products:	No hazardous decomposition products are known.

11. Toxicological Information

Information on likely routes of exposure

Inhalation, Skin contact and Eye contact

Acute toxicity

Not classified based on available information.

Components

Ethyl Alcohol:

Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity: LC50 (Rat): 124.7 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Isopropyl Alcohol:

Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity: LC50 (Rat): 72.6 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Acute dermal toxicity: LD50 (Rat): > 5,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product

Result: No skin irritation

Components

Ethyl Alcohol:

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

Isopropyl Alcohol:

Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components

Ethyl Alcohol:

Species: Rabbit
Method: OECD Test Guideline 405
Result: Irritation to eyes, reversing within 21 days

Isopropyl Alcohol:

Species: Rabbit
Result: Irritation to eyes, reversing within 21 days

Respiratory or Skin Sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components

Ethyl Alcohol:

Test Type: Local lymph node assay (LLNA)
Exposure routes: Skin contact
Species: Mouse
Result: Negative

Isopropyl Alcohol:

Test Type: Buehler Test
Exposure routes: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Negative

Germ Cell Mutagenicity

Not classified based on available information.

Components

Ethyl Alcohol:

Genotoxicity in vitro: Test Type: In vitro mammalian cell gene mutation test
Result: Negative
Genotoxicity in vivo: Test Type: Rodent dominant lethal test (germ cell) (in vivo)
Test species: Mouse
Application Route: Ingestion
Result: Negative

Isopropyl Alcohol:

Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES)
Result: Negative
Genotoxicity in vivo: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Test species: Mouse
Application Route: Intraperitoneal injection
Result: Negative

Carcinogenicity

Not classified based on available information.

Components

Isopropyl Alcohol:

Species: Rat
Application Route: inhalation(vapour)
Exposure time: 104 weeks
Method: OECD Test Guideline 451
Result: negative

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components

Ethyl Alcohol:

Effects on fertility:

Test Type: Two-generation reproduction toxicity study

Species: Mouse

Application Route: Ingestion

Method: OECD Test Guideline 416

Result: negative

Isopropyl Alcohol:

Effects on fertility:

Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion

Result: negative

Effects on foetal development:

Test Type: Embryo-foetal development

Species: Rat

Application Route: Ingestion

Result: negative

STOT - single exposure

Not classified based on available information.

Components

Isopropyl Alcohol:

Assessment: May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Repeated Dose Toxicity

Components

Ethyl Alcohol:

Species:

Rat

NOAEL: 2,400 mg/kg

Application Route: Ingestion

Exposure time: 2 y

Isopropyl Alcohol:

Species:

Rat NOAEL: 5000 ppm

Application Route: inhalation (vapour)

Exposure time: 104 w

Method: OECD Test Guideline 413

Aspiration toxicity

Not classified based on available information.

12. Ecological Information

Ecotoxicity

Components:

Ethyl Alcohol:

Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 48 h

Toxicity to algae: EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC (Daphnia magna (Water flea)): 9.6 mg/l
Exposure time: 9 d

Toxicity to bacteria: EC50 (Photobacterium phosphoreum): 32.1 mg/l
Exposure time: 0.25 h

Isopropyl Alcohol:

Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 24 h

Toxicity to bacteria: EC50 (Pseudomonas putida): > 1,050 mg/l
Exposure time: 16 h

Persistence and Degradability

Components

Ethyl Alcohol:

Biodegradability: Result: Readily biodegradable.

Biodegradation: 84% Exposure time: 20 d

Isopropyl Alcohol

Biodegradability: Result: rapidly degradable

Bioaccumulative Potential

Components

Ethyl Alcohol:

Partition coefficient:
n-octanol/water: log Pow: -0.35

Isopropyl Alcohol:

Partition coefficient:
n- octanol/water: log Pow: 0.05

Mobility in soil

No data available

Other adverse effects

No data available

Product

Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

13. Disposal Considerations

Disposal methods

Waste from residues: Dispose of in accordance with local regulations.

14. Transport Information

International Regulation

14.1 IATA-DGR

UN/ID No.: UN 1987
 Proper shipping name: Alcohols, n.o.s.
 (Ethanol, Propan-2-ol)
 Class: 3
 Packing group: III
 Packing instruction (cargo aircraft): 366
 Packing instruction (passenger aircraft): 355

14.2 IMDG-Code

UN number: UN 1987
 Proper shipping name: ALCOHOLS, N.O.S.
 (Ethanol, Propan-2-ol)
 Class: 3
 Packing group: III
 Labels: 3
 EmS Code: F-E, S-D
 Marine pollutant: no National Regulations

14.3 49 CFR

UN/ID/NA number: UN 1987
 Proper shipping name: Alcohols, n.o.s.
 (Ethanol, Propan-2-ol)
 Class: 3
 Packing group: III
 ERG Code: 127
 Marine pollutant: no

15. Regulatory Information

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Potassium Hydroxide	1310-58-3	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards: Fire Hazard

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: The following components are subject to reporting levels established by SARA Title III, Section 313:

Isopropyl Alcohol	67-63-0	1.42 %
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Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Ethyl Alcohol	64-17-5	29.4 %
Isopropyl Alcohol	67-63-0	1.42 %

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

Clean Water Act

This product does not contain any toxic pollutants listed under the U.S. CleanWater Act Section 307. The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Potassium Hydroxide	1310-58-3	0.35 %
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The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Potassium Hydroxide	1310-58-3	0.35 %
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Massachusetts Right to Know

Ethyl Alcohol	64-17-5	29.4 %
Isopropyl Alcohol	67-63-0	1.42 %

Pennsylvania Right to Know

Water (Aqua)	7732-18-5	70 - 90 %
Ethyl Alcohol	64-17-5	29.4 %
Isopropyl Alcohol	67-63-0	1.42 %
Potassium Hydroxide	1310-58-3	0.1 - 1 %

New Jersey Right to Know

Water (Aqua)	7732-18-5	70 - 90 %
Ethyl Alcohol	64-17-5	29.4 %
Isopropyl Alcohol	67-63-0	1.42 %

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

CH INV:	On the inventory, or in compliance with the inventory
TSCA:	On TSCA Inventory
DSL:	All components of this product are on the Canadian DSL.
AICS:	On the inventory, or in compliance with the inventory
NZIoC:	On the inventory, or in compliance with the inventory
ENCS:	On the inventory, or in compliance with the inventory
ISHL:	On the inventory, or in compliance with the inventory
KECI:	On the inventory, or in compliance with the inventory
PICCS:	On the inventory, or in compliance with the inventory
IECSC:	On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

16. Other Information

The first date of preparation: 15-04-2020

Number of revision times and latest revision date: 0

The above information presented here is believed to be accurate and pertains only to the product when stored in a sealed condition, as prescribed above. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product. The company shall in no way be liable for any claims, losses and damages of any third party, or for lost profits, or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, from the use of this product.