

Safety Data Sheet (SDS) SuperSteam Double Safe

Section 1: Identification

Product Identifier:	SuperSteam Double Safe
Recommended Use:	Ready to use blend of Ethanol and QAC based disinfecting cleaner suitable for disinfecting hard surfaces and hands with equivalent of 60% of ethanol (ethyl alcohol) and 0.4% (4,000 ppm) of Quaternary Ammonium Compound/Benzalkonium Chloride (QAC/BKC). Non-toxic and biodegradable.
Supplier:	SuperSteam Asia Pacific Pte Ltd 11 Changi South Street 3 #03-02 Singapore 486122
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Section 2: Hazards Identification

GHS Classification

Flammable Liquid:	Category 2
Serious Eye Damage / Irritation:	Category 2A

GHS Label Elements

Pictograms:



Signal Word: **DANGER**

Hazard Statements:

H225:	Highly flammable liquid and vapour.
H303:	May be harmful if swallowed.
H304:	May be fatal if swallowed and enters airways
H320:	Causes eye irritation.
H336:	May cause drowsiness or dizziness

Precautionary Statements:

P210:	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240:	Ground/bond container and receiving equipment.

P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P261: Avoid breathing fumes/mist/spray/vapours

Response:

P301 + P330 + P331: If Swallowed: Rinse mouth, Do NOT induce vomiting.
P305 + P351 + P338: If in eyes: Rinse cautiously with water for several minutes.
Remove contact lenses if present and easy to do. Continue rinsing.

Storage:

P233: Keep container tightly closed.
P235: Keep cool.
P403: Store in a well-ventilated place.

Disposal:

P501: Dispose of contents / containers in accordance with Singapore regulations.

Section 3: Composition / Information on Ingredients

Component Name	CAS	Composition
Benzalkonium chloride (Quaternary ammonium compound)	63449-41-2	0.4%
Ethanol	64-17-5	60%
Glycerine	56-81-5	<5%
Surfactant		

Section 4: First-Aid Measures

General Advice:

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Seek medical advice if you feel unwell. Show this safety data sheet to the doctor in attendance.

Inhalation:

If inhaled, move person into fresh air and keep at rest in a position comfortable for breathing.

Skin Contact:

N.A.

Eye Contact:

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists, seek medical advice.

Ingestion:

If Swallowed: Rinse mouth, Do NOT induce vomiting. Seek medical advice immediately.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:

Dry chemical powder, alcohol foam, water spray or carbon dioxide. Water spray may be used to keep fire-exposed containers cool. Water may be used to flush spills away from exposures and to dilute spills to non-flammable mixtures. Do NOT use straight streams of water.

Fire Fighting Procedures:

Do not use ordinary foam; do not breathe fumes; avoid eye contact; wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Vapours can flow along surfaces to distant ignition source and flash back. Containers may rupture violently in fire.

Specific Hazards Arising From the Chemical:

Alcohols can react vigorously with oxidisers.

Special Protective Actions for Fire Fighters:

In event of fire, wear self-contained breathing apparatus with full face mask and protective clothing.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Measures:

For personal protection, see section 8.

For spills of large quantities, evacuate personnel to safe areas. Remove all sources of ignition. Avoid contact with spilled material. Do not breathe vapours or spray mist. Wear self contained breathing apparatus and protective suit. Shut off leaks if without risk. Keep people away from and upwind of spill / leak due to flammability of material.

Environmental Precautions:

Do not flush into surface or sanitary sewer system. If the product contaminates rivers, reservoirs or drains, inform respective authorities.

For spills of large quantities, dike far ahead of liquid spill for later recovery and disposal. Prevent entry into basements or confined areas.

Methods and Materials for Containment and Cleaning Up:

For small spills, dilute with water and mop up, or absorb with sand or an inert dry material. Keep in suitable, closed containers for disposal.

For large spills, dike far ahead of spill. Use water spray to reduce vapours and decrease fire hazard. Pick up liquid for recovery or disposal when feasible. Absorb residues with sand or other suitable material; transfer to suitable disposal containers.

Section 7: Handling and Storage

Precautions for Safe Handling:

For personal protection, see section 8. Avoid breathing vapours or spray mists.

To avoid fire or explosion when handling large quantities, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion proof electrical (ventilating, lighting and material handling) equipment.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed and properly labelled in a cool, dry and well-ventilated place. Store out of direct sunlight, away from oxidising agents (e.g. bleach) and sources of heat and ignition (e.g. lit cigarettes or open flames)

Section 8: Exposure Controls/Personal Protection

Control Parameters / Occupational Exposure Limits:

Ethanol: TWA 1000ppm – 8 hours

TWA is the time-weighted average airborne concentration over an eight hour working day, for a five day working week over a working lifetime.

Appropriate Engineering Control Measures:

N.A.

Personal Protection:

Respiratory Protection:

N.A.

Skin Protection:

N.A.

Eye Protection:

Conditions may warrant the use of chemical goggles and possibly a face shield. Consult your standard operating procedure or safety professional for advice.

Section 9: Physical and Chemical Properties

Appearance at 25°C: Clear Liquid

Odour: Alcohol

Property:

pH:	7.0 ± 1.5
Freezing point:	N.A.
Initial boiling point / range:	78°C - 80°C
Flashpoint:	21°C - 24°C
Evaporation Rate:	Not available
Flammability:	Category 2
Upper/lower flammability:	N.A.
Vapour Pressure:	Non volatile
Vapour Density:	N.A.
Relative Density:	0.8-0.9
Solubility in water at 25°C:	Completely soluble
Partition Coefficient:	N.A.
Auto-ignition temperature:	363°C
Decomposition temperature:	Not available
Viscosity:	Not available

Section 10: Stability and Reactivity

Reactivity:

N.A.

Chemical Stability:

The product is stable.

Possibility of Hazardous Reactions:

Stable under normal conditions.

Conditions to Avoid:

Heat, sparks, flame and build-up of static electricity.

Incompatible Materials:

Reactive with oxidising agents.

Hazardous Decomposition Products:

Burning can produce carbon dioxide and water, incomplete combustion can produce carbon monoxide.

Section 11: Toxicological Information

Oral Toxicity: Ingestion – LD50 – rat – 10740 mg/kg

Inhalation:

Inhalation may cause irritation to mucous membranes.
May cause dizziness and headaches.

Eyes:

Irritating to eyes.

Ingestion:

Harmful: possible risk of irreversible effects if swallowed in sizable quantities. May cause depression of central nervous system. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Section 12: Ecological Information

Ecotoxicity Effects:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence and Degradability

This product is readily biodegradable.

Bioaccumulative Potential

The ingredients used demonstrate low potential for bioaccumulation

Mobility in Soil

This product is likely to volatilize rapidly into the air because of its high vapour pressure. The product is poorly absorbed onto soils or sediments.

Other Adverse Effects

N.A.

Section 13: Disposal Considerations

Dispose of all waste and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations. Recovery and reuse, rather than disposal, should be the ultimate goal of handling efforts. The materials resulting from the clean-up operations may be hazardous wastes and therefore, subject to specific regulations. Use only licensed transporters and permitted facilities for waste disposal.

Section 14: Transport Information

This product follows IATA regulations.

UN Number: 1170 Ethanol Solution Class 3, packing group II

Section 15: Regulatory Information

Applicable National Regulations:

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subject to the SDS, labelling and other requirements in the Act/Regulations.

Environmental Protection and Management Act: This product is subject to the requirements in the Act/Regulations.

Section 16: Other Information

Usage information

In an opened package, Double Safe will expire 6 months from the date of production (must be covered in bottle)

Use NEAT, Do not dilute

- Combined effectiveness of 60% of ethanol (ethyl alcohol) and 4,000 ppm of active quaternary
- Firstly, clean surface thoroughly. Then, spray Double Safe and allow it to air dry
- Also suitable for rinse-free hand application
- To sanitise food processing equipment:
 - Firstly, clean the surface of food processing equipment thoroughly.
 - Spray and wipe Double Safe on the surface.
 - Rinse the surface thoroughly.
- To sanitise hands
 - Use neat, do not dilute
 - Spray it once onto hand and rub it all over. Allow it to air-dry.
 - No rinsing is necessary

Expiry date: 2 years from the date of production (unopened cap, intact seal, stored in normal temperature away from high heat and direct sunlight).

Date Created and Latest Revision(s)

28 June 2012: Date of issue of SDS.

17 July 2012: Updated with ISO 22000 compliant facility.

6 October 2012: Updated Section 1, 3, 9 and 16

22 January 2015: Updated Section 9 and 14
11, May, 2015: Updated Section 9
7, March, 2017: Updated Section 16
29 December 2017: Updated Section 16
23 November 2018: Updated Section 1
14 February 2020: Updated Section 1, 2, 3, 5, 11 and 16
17 February 2020: Updated Section 1 and 3
25, March, 2020: Updated Section 2, 11 and 16
29 September 2020: Updated Section 14
20 October 2020: Updated Section 3
10 November 2020: Updated Section 1
12 January 2022: Updated Section 2, 9 and 14
28 September 2023: Updated Section 9
10 May 2024: Updated Section 16
9 July 2024: Updated Section 1

Product proudly manufactured in Singapore.

SuperSteam Asia Pacific Pte Ltd is a one-stop distributor of professional cleaning machines, janitorial supplies and cleaning chemicals. Please feel free to contact us if you have any questions on this product or face any cleaning problems.

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~ End of SDS ~