



**SUPERSTEAM**  
THE CHOICE OF CLEANING PROFESSIONALS

## **Safety Data Sheet (SDS)**

### **Duo-Green**

#### **Section 1: Identification**

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Product Identifier: **Duo-Green**  
Recommended Use: Highly effective floor cleaner that meets Singapore's Green Label specifications.  
Biodegradable.  
Supplier: SuperSteam Asia Pacific Pte Ltd  
11 Changi South Street 3 #03-02 Singapore 486122  
Phone: +65 6595 4333 (Mon-Fri, 9am – 6pm)  
Fax: +65 6745 2440  
Email: info@SuperSteam.com.sg

***This product is made in Singapore in a ISO 22000:2005 compliant facility.***

#### **Section 2: Hazards Identification**

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##### **GHS Classification**

Skin Corrosion / Irritation: Category 2  
Acute Toxicity – Oral: Category 4  
Serious Eye Damage / Irritation: Category 2

##### **GHS Label Elements**

##### **Pictograms:**



**Signal Word: WARNING**

##### **Hazard Statements:**

H302 + H312: Harmful if swallowed or in contact with skin.  
H315 + H320: Causes skin and eye irritation.

**Precautionary Statements:**

P102: Keep out of reach of children.  
P103: Read label before use.  
P264: Wash hands thoroughly after handling.  
P280: Wear protective gloves.

**Response:**

P301 + P330 + P331: If Swallowed: Rinse mouth, Do NOT induce vomiting.  
P303 + P361 + P353: If on Skin: Remove/take off immediately all contaminated clothing.  
Rinse skin with water / shower.  
P352: (After handling) Wash hands thoroughly with soap and water.  
P363: Wash contaminated clothing before reuse.  
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:**

P402: Store in a dry place.  
P403: Store in a well-ventilated place.

**Disposal:**

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

**Section 3: Composition / Information on Ingredients**

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Component Name	CAS	Composition
Non-ionic Surfactant		<12%
2-Butoxyethanol	111-76-2	<9%
Dodecylbenzene Sulphonic Acid	27176-87-0	<6%

**Section 4: First-Aid Measures**

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**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:**

After handling, wash hands thoroughly with soap and water.  
If on skin, remove/take off immediately all contaminated clothing. Rinse skin with water / shower.  
Wash contaminated clothing before reuse.

**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

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### **Suitable Extinguishing Media:**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### **Specific Hazards Arising From the Chemical:**

Do not allow run-off from fire fighting to enter drains or water courses.

### **Special Protective Actions for Fire Fighters:**

In event of fire, wear self-contained breathing apparatus.

## Section 6: Accidental Release Measures

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### **Personal Precautions, Protective Equipment and Emergency Measures:**

For personal protection, see section 8. Use personal protective equipment (e.g. gloves, boots) and ensure adequate ventilation

### **Environmental Precautions:**

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

### **Methods and Materials for Containment and Cleaning Up:**

Soak up with inert absorbent material (e.g. sawdust). Keep in suitable, closed containers for disposal.

## Section 7: Handling and Storage

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### **Precautions for Safe Handling:**

For personal protection, see section 8. Avoid contact with eyes, skin and clothing. Eating, drinking or smoking in work areas is prohibited. After handling, always wash hands thoroughly with soap and water. Remove contaminated clothing and protective equipment before entering eating areas.

### **Conditions for safe storage, including any incompatibilities:**

Keep container tightly closed and properly labelled in a dry and well-ventilated place.

## Section 8: Exposure Controls/Personal Protection

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### **Control Parameters / Occupational Exposure Limits:**

N.A.

### **Appropriate Engineering Control Measures:**

Effective exhaust ventilation system. Ensure that eyewash stations and safety showers are close to the workstation location.

### **Personal Protection:**

#### **Respiratory Protection:**

In case of vapour formation, use a respirator with an approved filter

**Skin Protection:**

Wear chemical resistant gloves such as Nitrile Rubber. Also recommended to wear chemical resistant safety boots. Always decontaminate your PPE after every use.

**Eye Protection:**

Wear safety glasses as a minimum 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**

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Appearance at 25°C: Pale off-white liquid  
Odour: Mild solvent

**Property:**

pH: 10.3 (+/- 0.5) as concentrate, pH 7 (+/- 0.5) (dilute 1:20 parts water)  
Freezing point: N.A.  
Initial boiling point / range: Not available  
Flashpoint: Not available  
Evaporation Rate: Not available  
Flammability: N.A.  
Upper/lower flammability: N.A.  
Vapour Pressure: Non volatile  
Vapour Density: N.A.  
Relative Density: 1.014  
Solubility in water at 25°C: Completely soluble  
Partition Coefficient: N.A.  
Auto-ignition temperature: Not available  
Decomposition temperature: Not available  
Viscosity: Not available

**Section 10: Stability and Reactivity**

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**Reactivity:**

N.A.

**Chemical Stability:**

The product is stable.

**Possibility of Hazardous Reactions:**

Stable under normal conditions.

**Conditions to Avoid:**

N.A.

**Incompatible Materials:**

N.A.

**Hazardous Decomposition Products:**

No hazardous decomposition products are known.

## **Section 11: Toxicological Information**

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### **Inhalation:**

Inhalation may cause irritation to mucous membranes.

Thermal decomposition can lead to release of irritating gases and vapours.

May cause nausea. May cause headaches.

### **Skin:**

May cause skin irritation in susceptible persons

Skin inflammation is characterized by itching, scaling, reddening or occasionally, blistering.

Effect will depend on concentration and length of time of exposure

### **Eyes:**

May cause irreversible eye damage

### **Ingestion:**

May cause irritation to mucous membranes.

May cause gastrointestinal disturbances.

## **Section 12: Ecological Information**

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### **Ecotoxicity Effects:**

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

### **Persistence and Degradability**

The product is tested to be readily biodegradable, achieving 99% biodegradability within 28 days.

### **Bioaccumulative Potential**

The ingredients used demonstrate low potential for bioaccumulation

### **Mobility in Soil**

No available information

### **Other Adverse Effects**

N.A.

## **Section 13: Disposal Considerations**

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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**

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UN Number: N/A (not classified as hazardous)

This product is not regulated under transport regulations.

## Section 15: Regulatory Information

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### 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

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### Dilution:

Heavy soils, grease or spot cleaning – dilute 1:10 (Degreaser)

Normal soils, single disc scrubbing – dilute 1:30 (Neutral Cleaner)

Light soil, mopping, autoscrubbing – dilute 1:80 (Neutral Cleaner)

**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)

**26 October 2011:** Date of issue of SDS.

**13 June 2012 :** Directions for use

**17 July 2012:** Updated with ISO 22000 compliant facility.

**26, December, 2014:** Updated Section 14

**2 October 2017:** Last review without changes

**29 December 2017:** Updated Section 16

**26 July 2018:** Updated Section 1 and Section 3

**23 November 2018:** 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.

This information is provided for the customer's investigation and independent verification. While the data is believed to be correct at time of publishing, the use of this data and of the product is beyond the manufacturer's control. SuperSteam Asia Pacific Pte Ltd shall in no event be responsible for any loss or damages whatsoever, directly or indirectly resulting from the publication or use of or reliance upon the data contained herein. No warranty, either expressed or implied, of merchantability, of fitness, or of any nature with respect to the product, or to the data, is made herein. In all cases, it is the responsibility of the user to determine the applicability of such information or the suitability of any products for their own particular purpose.

~ End of SDS ~