

## Safety Data Sheet (SDS)

The content and format of this SDS is accordant with the latest version of GHS.

### 1. Identification of the substance/preparation and of the company/undertaking

**Product name:** Tower Deodorizer

**Recommended use of the chemical and restrictions on use:** For deodorizing purpose. Restrictions on use: Do NOT use it in an application which may contaminate food or do harm to human health.

**Manufacturer/Supplier:** TAIZHOU HUANGYAN BIGGIE COMMODITY CO., LTD

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**Information in case of emergency:** +86-0576 89801885

### 2. Hazards identification

**GHS classification:**

Physical hazards:	Not classified
Health hazards:	Skin corrosion/irritation - Category 3 Sensitisation, skin - Category 1
Environmental hazards:	Hazardous to the aquatic environment, acute hazard - Category 2 Hazardous to the aquatic environment, long-term hazard - Category 2

**Signal Word: Warning**

**Symbol:**



**Hazard Statements:**

H316: Causes mild skin irritation.

H317: May cause an allergic skin reaction.

H401: Toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves.

**Response Precautionary Statements:**

P302 + P352: IF ON SKIN: Wash with plenty of water.

P333 + P317: If skin irritation or rash occurs: Get medical help.

P321: Specific treatment (Please see the specific measures for accident that included in the label, or go to hospital for treatment.)

P362 + P364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage.

**Storage precautionary statements:**

No special requirements.

**Disposal precautionary statements:**

P501: Dispose of contents/container to relevant local and national regulations (It is recommended to use incineration method to dispose of waste).

**3. Composition/information on ingredients**

**Product description:** substance ( ) ; preparation/mixture (√)

Ingredient (s)		CAS No.	EC No.	% by weight	
EVA Ethylene vinyl acetate (EVA)		24937-78-8	607-457-0	69.5	
Fragrance (Kiwi Grapefruit)	D-Limonene	5989-27-5	227-813-5	20-25	
	2-Phenoxyethanol	122-99-6	204-589-7	10-20	
	Benzyl benzoate/Benzoic acid benzyl ester	120-51-4	204-402-9	10-20	
	4-tert-Butylcyclohexyl acetate	32210-23-4	250-954-9	10-15	
	DL-Menthol	1490-04-6	216-074-4	1-5	
	Linalol	78-70-6	201-134-4	1-5	
	Citral	5392-40-5	226-394-6	1-5	
Pigment		--	--	0.5	

**4. First aid measures**

**Persons using this product should consult a physician or other medical professional if an accident involving this product results in injury. Specific first-aid measures are as follows:**

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**Skin Contact:** Wash with plenty of water. If skin irritation or rash occurs: Get medical help. Take off contaminated clothing and wash it before reuse.

**Eyes Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion:** Rinse mouth. Do not induce vomiting without professional instruction. Get medical advice/attention if you feel unwell.

**Acute effect and delayed effect:** Acute effect: Causes mild skin irritation. May cause an allergic skin reaction. Delayed effect: Not found.

**Personal protective equipment:** Wear protective gloves.

**Indication of immediate medical attention and treatment needed, if necessary:** Treat according to symptoms and exposure dose.

## 5. Fire-fighting measures

**Extinguishing Media:** Use dry chemicals, carbon dioxide, foam, water spray, dry sand for extinction. Discharging cylinder shape water from fire hose may lead to spread fire to the surroundings.

**Special hazards arising from the chemical:** It may release smoke, carbon monoxide, carbon dioxide and other hazardous gas from thermal decomposition.

### Fire Fighting Method:

If there is no danger, remove all sources of ignition.

Extinguish fire from upwind, and the fire extinguishing method should be appropriate to the situation in the surroundings.

Cool surrounding facilities, etc. with water spray.

Remove containers from fire area if it can be done without risk.

**Special actions for fire-fighters:** Firefighters must wear self-contained breathing apparatus and full protective equipment.

Check whether the protective equipment is in good condition before use.

## 6. Accidental release measures

**Personal precautions:** Use proper personal protective equipment as indicated in Section 8.

**Emergency procedures:** Due to the nature of this product, there are no special requirement.

**Environmental Precautions:** Keep collected waste out of municipal sewers and open bodies of water. Comply with local and national laws and regulations.

### Measures for Cleaning/Collection:

Due to the nature of this product, there are no special measure for collection.

Collect it into a proper container for disposal.

Avoid generating dust during collection and clean-up.

## 7. Handling and storage

### Precautions for safe handling:

Avoid breathing dust/fume/gas/mist/vapours/spray.

Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves.

**Conditions for safe storage, including any incompatibilities:** Store it in a well-ventilated, cool and dry store room.

**Incompatible substances or mixtures:** No relevant information.

**Packing material:** Plastic bags.

## 8. Exposure controls/personal protection

### Occupational Exposure Limits:

Ingredients	OSHA PEL-TWA	ACGIH TLV-TWA
No ingredients have an exposure limit	Not available	Not available

### Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended

exposure limits.

Install washer eyes and safety showers near to the handling and storage area.

**Personal Protective Equipment (for workers):**

**Protection of Hands:**

Recommend wearing protective gloves for industrial hygienic purpose.



**Protection of Eyes:**

No special requirements under normal conditions. Wear safety glasses when dust or fume may be generated during processing or working for a long time.



**Respiratory Protection:**

No special requirements under normal conditions. Use an approved respirator if exposure limits are exceeded or if irritation or other symptoms occur.



**Protection of Body:**

Recommend wearing general working clothing.



**General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Do not inhale dust generated from processing.

**9. Physical and chemical properties**

General Information	
Appearance	Solid
Odour	No data available
Odour threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available

<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	Non-flammable
<b>Flammable/Explosive Limits-Lower Vol %</b>	No data available
<b>Flammable/Explosive Limits-Upper Vol %</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available
<b>Relative density</b>	No data available
<b>Solubility (water)</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidizing properties</b>	No data available

## 10. Stability and reactivity

**Reactivity and Chemical stability:** This product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Possibility of hazardous reactions:** No relevant information.

**Conditions to Avoid:** High temperature.

**Incompatible materials:** No relevant information.

**Hazardous decomposition products:** No relevant information.

## 11. Toxicological information

### Product Toxicity Data:

<b>Ingredient (s)</b>	<b>CAS No.</b>	<b>LD<sub>50</sub>/LC<sub>50</sub> (Median lethal dose)</b>
D-Limonene	5989-27-5	Acute toxicity (Oral) LD <sub>50</sub> > 2,000 mg/kg (rat) Data source: ECHA Acute toxicity (Dermal) LD <sub>50</sub> > 5,000 mg/kg (rabbit) Data source: ECHA
2-Phenoxyethanol	122-99-6	Acute toxicity (Oral) LD <sub>50</sub> : 1,840 mg/kg (rat) Data source: ECHA Acute toxicity (Dermal) LD <sub>50</sub> > 2,214 mg/kg (rabbit) Data source: ECHA
Benzyl benzoate/Benzoic acid benzyl ester	120-51-4	Acute toxicity (Oral) LD <sub>50</sub> > 2,000 mg/kg (rat) Data source: ECHA Acute toxicity (Dermal) LD <sub>50</sub> > 2 ml/kg (rabbit) Data source: ECHA
4-tert-Butylcyclohexyl acetate	32210-23-4	Acute toxicity (Oral) LD <sub>50</sub> : 3.96 ml/kg (rat) Data source: ECHA

		Acute toxicity (Dermal) LD <sub>50</sub> >5 ml/kg (rabbit) Data source: ECHA
DL-Menthol	1490-04-6	Acute toxicity (Oral) LD <sub>50</sub> : 3,180 mg/kg (rat) Data source: ECHA Acute toxicity (Dermal) LD <sub>50</sub> >5,000 mg/kg (rabbit) Data source: ECHA
Linalol	78-70-6	Acute toxicity (Oral) LD <sub>50</sub> : 2,790 mg/kg (rat) Data source: ECHA Acute toxicity (Dermal) LD <sub>50</sub> ≥3,578≤8,374 mg/kg (rabbit) Data source: ECHA Acute toxicity (Inhalation) LC <sub>50</sub> >3.2 mg/L (rat) Data source: ECHA
Citral	5392-40-5	Acute toxicity (Oral) LD <sub>50</sub> : 6,800 mg/kg (rat) Data source: ECHA Acute toxicity (Dermal) LD <sub>50</sub> >2,000 mg/kg (rat) Data source: ECHA
Classification of the whole product:		Not classified
<b>Skin corrosion/irritation</b>		D-Limonene (CAS: 5989-27-5): Category 2 (Data source: CLP) DL-Menthol (CAS: 1490-04-6): Category 2 (Data source: ECHA) Linalol (CAS: 78-70-6): Category 2 (Data source: ECHA) Citral (CAS: 5392-40-5): Category 2 (Data source: CLP) Classification of the whole product: Category 3
<b>Serious eye damage/eye irritation</b>		2-Phenoxyethanol (CAS: 122-99-6): Category 2 (Data source: CLP) DL-Menthol (CAS: 1490-04-6): Category 2 (Data source: ECHA) Linalol (CAS: 78-70-6): Category 2 (Data source: ECHA) Classification of the whole product: Not classified
<b>Sensitisation, respiratory</b>		No classification for this product.
<b>Sensitisation, skin</b>		D-Limonene (CAS: 5989-27-5): Category 1 (Data source: CLP) 4-tert-Butylcyclohexyl acetate (CAS: 32210-23-4): Category 1B (Data source: ECHA) Linalol (CAS: 78-70-6): Category 1B (Data source: CLP) Citral (CAS: 5392-40-5): Category 1 (Data source: CLP) Classification of the whole product: Category 1
<b>Germ cell mutagenicity</b>		No classification for this product.
<b>Carcinogenicity</b>		No classification for this product.
<b>Reproductive Toxicity</b>		No classification for this product.
<b>Specific target organ toxicity, single exposure</b>		No classification for this product.
<b>Specific target organ toxicity, repeated exposure</b>		No classification for this product.
<b>Aspiration hazard</b>		No classification for this product.
<b>Effects on or via lactation</b>		No classification for this product.

## 12. Ecological information

### Ecotoxicity:

D-Limonene (CAS: 5989-27-5):

96h-LC<sub>50</sub>: 0.72 mg/L, fish (Data source: ECHA)

8d-NOEC: 0.37 mg/L, fish (Data source: ECHA)

48h-EC<sub>50</sub>: 0.307 mg/L, aquatic invertebrates (Data source: ECHA)

21d-NOEC: 0.153 mg/L, aquatic invertebrates (Data source: ECHA)

72h-EC<sub>50</sub>: 0.32 mg/L, algae (Data source: ECHA)

Hazardous to the aquatic environment, acute hazard - Category 1 (Data source: CLP)

Hazardous to the aquatic environment, long-term hazard - Category 1 (Data source: CLP)

2-Phenoxyethanol (CAS: 122-99-6):

96h-LC<sub>50</sub>: 344 mg/L, fish (Pimephales promelas) (Data source: ECHA)

34d-NOEC: 24 mg/L, fish (Pimephales promelas) (Data source: ECHA)

Benzyl benzoate/Benzoic acid benzyl ester (CAS: 120-51-4):

96h-LC<sub>50</sub>: 2.32 mg/L, fish (Danio rerio) (Data source: ECHA)

48h-EC<sub>50</sub>: 3.09 mg/L, aquatic invertebrates (Daphnia magna) (Data source: ECHA)

72h-EC<sub>50</sub>: 0.311 mg/L, algae (Pseudokirchneriella subcapitata) (Data source: ECHA)

Hazardous to the aquatic environment, long-term hazard - Category 2 (Data source: CLP)

4-tert-Butylcyclohexyl acetate (CAS: 32210-23-4):

48h-LC<sub>50</sub>: 15 mg/L, fish (Leuciscus idus melanotus) (Data source: ECHA)

24h-EC<sub>50</sub>: 7 mg/L, aquatic invertebrates (Daphnia magna) (Data source: ECHA)

DL-Menthol (CAS: 1490-04-6):

96h-LC<sub>50</sub>: 22.3 mg/L, fish (Danio rerio) (Data source: ECHA)

48h-EC<sub>50</sub>: 26.6 mg/L, aquatic invertebrates (Daphnia magna) (Data source: ECHA)

Citral (CAS: 5392-40-5):

96h-LC<sub>50</sub>: 6.78 mg/L, fish (Leuciscus idus) (Data source: ECHA)

48h-EC<sub>50</sub>: 6.8 mg/L, aquatic invertebrates (Daphnia magna) (Data source: ECHA)

Classification of the whole product:

Hazardous to the aquatic environment, acute hazard - Category 2

Hazardous to the aquatic environment, long-term hazard - Category 2

**Persistence and Degradability:** No data available.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** As it is in solid status, it can hardly move in soil.

## 13. Disposal considerations

### Waste treatment methods:

**Chemical Waste:** Transport to specialized waste disposal sites for disposal. It must strictly follow local regulations for disposal.

**Contaminated packaging:** The container or packaging may remain noxious substance and should be disposed as a hazardous waste.

### Cautions for disposal:

Do not allow product to reach sewage system.

Do not throw it into any open bodies of water.  
It is recommended to use incineration method to dispose of waste.

#### 14. Transport Information

##### DOT/Air-Transportation- IATA/ICAO/Sea-Transportation-IMO/IMDG:

**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

**Hazard Class:** 9

**UN Code:** 3077

**Packing Group:** III

**Packing Group Symbol:**



**Marine Pollutant (Yes/No):** Yes

**EMS NO.:** F-A S-F

##### **Note:**

Check whether the package is completed or sealed before transporting; make sure no damage of packages and prevent goods from falling down during transporting; the transport vehicle should be equipped with facilities for fire-fighting and accidental release handling; do NOT transport this product together with incompatible substances; stay away from fire and areas of high temperature during stopovers.

#### 15. Regulatory information

##### United States:

**Section 355 (extremely hazardous substances):** Not listed.

**SARA 313:** This product does not contain SARA 313 Toxic Release Chemicals.

##### **Toxic Substances Control Act (TSCA):**

Ingredient (s)	CAS No.	TSCA Inventory
EVA Ethylene vinyl acetate (EVA)	24937-78-8	Listed
D-Limonene	5989-27-5	Listed
2-Phenoxyethanol	122-99-6	Listed
Benzyl benzoate/Benzoic acid benzyl ester	120-51-4	Listed
4-tert-Butylcyclohexyl acetate	32210-23-4	Listed
DL-Menthol	1490-04-6	Listed
Linalol	78-70-6	Listed
Citral	5392-40-5	Listed

##### **Clean Water Act:**



Chemical Name	CWA - Reportable Quantities	CWA - Hazardous Substances	CWA - Priority Pollutants	CWA - Toxic Pollutants
Not available	Not available	Not available	Not available	Not available

**Carcinogenicity categories:**

Chemical Name	ACGIH	IARC	NTP	OSHA
Not available	Not available	Not available	Not available	Not available

**European Union:**

**Candidate List of Substances of very high concern (SVHC) according to ECHA:** Not listed.

**REACH Regulation Annex XVII Regulation List:** Not listed.

**REACH Regulation Annex XIV Authorization List:** Not listed.

**Germany – WGK:** WGK-2.

**(EC) 1272/2008 Annex VI Table 3.1:**

Ingredient(s)	EC No. 1272/2008 Classification	
	CLASS. CODE	HAZARD CODE
D-Limonene (CAS: 5989-27-5)	Flam. Liq. 3	H226
	Skin Irrit. 2	H315
	Skin Sens. 1	H317
	Aquatic Acute 1	H400
	Aquatic Chronic 1	H410
2-Phenoxyethanol (CAS: 122-99-6)	Acute Tox. 4 *	H302
	Eye Irrit. 2	H319
Benzyl benzoate/Benzoic acid benzyl ester (CAS: 120-51-4)	Acute Tox. 4 *	H302
	Aquatic Chronic 2	H411
Linalol (CAS: 78-70-6)	Skin Sens. 1B	H317
Citral (CAS: 5392-40-5)	Skin Irrit. 2	H315
	Skin Sens. 1	H317

**Chemical Safety Assessment:** A Chemical Safety Assessment has not been carried out.

**16. Other information**

**DISCLAIMER:**

All the information of this SDS is true and effective, and only for reference. Our company will not control the way how people use it, neither will we be responsible for any consequence. The users shall decide how to properly use the product or adopt certain production way for some special purpose. The above-mentioned precautionary measures are helpful to avoid damage to the property or life safety during the operation or use of this product.

**References:**

- GHS (Rev.8)
- GHS SDS Instruction
- GHS Annex 2

**Full description of some acronyms:**

**GHS-Globally Harmonized System of Classification and Labelling of Chemicals**

**CAS-Chemical Abstracts Service**

**EINECS-European Inventory of Existing Commercial Chemical Substances**

**IMO-International Maritime Organization**

**IMDG-International Maritime Dangerous Goods**

**IATA-International Air Transport Association**

**ICAO-International Civil Aviation Organization**

**TSCA-Toxic Substances Control Act**

**OSHA-Occupational Safety and Health Administration**

**ACGIH- American Conference of Governmental Industrial Hygienists**

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\*\*\*\*\*The End\*\*\*\*\*