# SAFETY DATA SHEET



Anti-Splash Urinal Screen Ocean Breeze

### **Section 1. Identification**

Product identifier : Anti-Splash Urinal Screen Ocean Breeze

Product code : 987

Other means of : Not available.

identification

Product type : Solid.

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

Not applicable.

Supplier's details : Betco Corporation

1690 Huron Church Road, Suite 169

Windsor ON N9C0AC CA

400 Van Camp Road

Bowling Green, OH 43402 US

www.betco.com 888-462-3826

**Emergency telephone** number (with hours of

operation)

: Chemtrec (800) 424-9300 24 hour

### Section 2. Hazard identification

Classification of the substance or mixture

: SKIN SENSITIZATION - Category 1

**GHS label elements** 

Hazard pictograms :



Signal word : Warning

**Hazard statements**: May cause an allergic skin reaction.

**Precautionary statements** 

Prevention : Wear protective gloves. Avoid breathing dust. Contaminated work clothing should

not be allowed out of the workplace.

**Response**: IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing

and wash it before reuse. If skin irritation or rash occurs: Get medical attention.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification

: Not available.

Anti-Splash Urinal Screen Ocean Breeze

# Section 3. Composition/information on ingredients

| Ingredient name                              | % (w/w) | CAS number |
|--|---------|------------|
| cinnamaldehyde                               | 0.1 - 1 | 104-55-2   |
| geraniol                                     | 0.1 - 1 | 106-24-1   |
| p-t-Butyl-alpha-methylhydrocinnamic aldehyde | 0.1 - 1 | 80-54-6    |
| citral                                       | 0.1 - 1 | 5392-40-5  |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First-aid measures

#### **Description of necessary first aid measures**

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower evelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention if irritation occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen

tight clothing such as a collar, tie, belt or waistband.

**Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear

gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing

before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not

drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such

as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

**Skin contact**: May cause an allergic skin reaction.

**Ingestion**: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion** : No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

#### Section 4. First-aid measures

**Specific treatments** 

- : No specific treatment.
- **Protection of first-aiders**
- : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** media

: None known.

Specific hazards arising from the chemical

: No specific fire or explosion hazard.

**Hazardous thermal** decomposition products Decomposition products may include the following materials: carbon dioxide

carbon monoxide

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

**Small spill** 

: Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

#### Precautions for safe handling

#### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

| Ingredient name | Exposure limits   |
|-----------------|---|
| citral          | CA British Columbia Provincial (Canada, 6/2017). Skin sensitizer.   |
|                 | CA Ontario Provincial (Canada, 1/2018). Absorbed through skin. TWA: 5 ppm 8 hours. Form: Inhalable fraction and vapour. |

# Appropriate engineering controls

**Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### **Skin protection**

# Section 8. Exposure controls/personal protection

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Chemical resistant gloves

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

**Appearance** 

Physical state : Solid.

Color : Blue. [Dark]
Odor : Characteristic.
Odor threshold : Not available.
pH : Not applicable.
Melting point : Not available.
Boiling point : >170°C (>338°F)

Flash point : Closed cup: >60°C (>140°F) [Product does not sustain combustion.]

Evaporation rate : Not applicable.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure: Not available.Vapor density: Not available.Relative density: Not available.

**Solubility** : Insoluble in the following materials: cold water and hot water.

Solubility in water : Not available.

Partition coefficient: n- : Not applicable.

octanol/water

Auto-ignition temperature : Not applicable.

Decomposition temperature : Not available.

Viscosity : Dynamic (room temperature): Not applicable.

Kinematic (room temperature): Not applicable.

Flow time (ISO 2431) : Not available.

## Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

# Section 10. Stability and reactivity

Conditions to avoid : No specific data.

**Incompatible materials**: Not available.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

# Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

| Product/ingredient name                             | Result                   | Species       | Dose                    | Exposure |
|---|--------------------------|---------------|-------------------------|----------|
| cinnamaldehyde                                      | LD50 Dermal              | Rabbit        | 620 mg/kg               | -        |
| •   | LD50 Oral                | Rat           | 1850 mg/kg              | -        |
| geraniol  | LD50 Dermal              | Rabbit        | >5000 mg/kg             | -        |
| -   | LD50 Oral                | Rat           | 2.1 g/kg                | _        |
| p-t-Butyl-alpha-<br>methylhydrocinnamic<br>aldehyde | LD50 Dermal              | Rabbit        | >5000 mg/kg             | -        |
| •   | LD50 Oral                | Rat           | 1390 mg/kg              | _        |
| citral  | LD50 Dermal<br>LD50 Oral | Rabbit<br>Rat | 2250 mg/kg<br>3.45 g/kg | -        |

#### **Irritation/Corrosion**

| Product/ingredient name | Result                     | Species    | Score | Exposure                   | Observation |
|-------------------------|----------------------------|------------|-------|----------------------------|-------------|
| cinnamaldehyde          | Skin - Severe irritant     | Human      | -     | 48 hours 40                | -           |
|                         |                            |            |       | milligrams                 |             |
| geraniol                | Skin - Mild irritant       | Guinea pig | -     | 30 Percent                 | -           |
|                         | Skin - Severe irritant     | Guinea pig | -     | 24 hours 100               | -           |
|                         |                            |            |       | milligrams                 |             |
|                         | Skin - Severe irritant     | Human      | -     | 48 hours 32                | -           |
|                         |                            |            |       | Percent                    |             |
|                         | Skin - Severe irritant     | Man        | -     | 24 hours 16                | -           |
|                         |                            |            |       | milligrams                 |             |
|                         | Skin - Moderate irritant   | Rabbit     | -     | 4 hours 0.5                | -           |
|                         |                            |            |       | Mililiters                 |             |
|                         | Skin - Severe irritant     | Rabbit     | -     | 24 hours 100               | -           |
|                         |                            |            |       | milligrams                 |             |
| p-t-Butyl-alpha-        | Skin - Moderate irritant   | Rabbit     | -     | 24 hours 500               | -           |
| methylhydrocinnamic     |                            |            |       | milligrams                 |             |
| aldehyde                | Older Mandageta insite of  | 0          |       | 40 5 4                     |             |
| citral                  | Skin - Moderate irritant   | Guinea pig | -     | 48 hours 1                 | -           |
|                         | Chia Carraga imitant       | 0:         |       | Percent                    |             |
|                         | Skin - Severe irritant     | Guinea pig | -     | 24 hours 100               | -           |
|                         | China Milel innit and      | 11         |       | milligrams                 |             |
|                         | Skin - Mild irritant       | Human      | -     | 24 hours 40                | -           |
|                         | Claim Covers implement     | Man        |       | milligrams                 |             |
|                         | Skin - Severe irritant     | Man        | _     | 48 hours 16                | -           |
|                         | Skin Sovere irritent       | Dia        |       | milligrams<br>48 hours 50  |             |
|                         | Skin - Severe irritant     | Pig        | [-    |                            | -           |
|                         | Skin - Moderate irritant   | Rabbit     |       | milligrams<br>24 hours 500 |             |
|                         | Skiii - Moderate iiiltalit | Rabbit     | [     |                            | ] -         |
|                         | Skin - Severe irritant     | Rabbit     |       | milligrams<br>24 hours 100 |             |
|                         | JAIII - Severe IIIIlaiil   | ומטטונ     | [     | milligrams                 | 1-          |
|                         |                            |            |       | Inilligranis               |             |

#### **Sensitization**

Not available.

#### **Mutagenicity**

# **Section 11. Toxicological information**

Not available.

#### **Carcinogenicity**

Not available.

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

: Not available.

#### Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

**Skin contact**: May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion** : No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

#### **Short term exposure**

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

#### Potential chronic health effects

Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.

# **Section 11. Toxicological information**

Fertility effects : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

**Acute toxicity estimates** 

Not available.

## **Section 12. Ecological information**

#### **Toxicity**

| Product/ingredient name | Result   | Species   | Exposure             |
|-------------------------|--|---|----------------------|
| cinnamaldehyde          | Acute EC50 7.05 ppm Fresh water<br>Acute LC50 1.67 ppm Fresh water | Daphnia - Daphnia magna<br>Fish - Oncorhynchus mykiss -<br>Juvenile (Fledgling, Hatchling,<br>Weanling) | 48 hours<br>96 hours |

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

| Product/ingredient name   | LogPow             | BCF   | Potential          |
|---|--------------------|-------|--------------------|
| cinnamaldehyde<br>geraniol<br>p-t-Butyl-alpha-<br>methylhydrocinnamic<br>aldehyde | 1.83<br>2.6<br>4.2 | 8     | low<br>low<br>high |
| citral  | 2.76               | 89.72 | low                |

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

#### Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

|                            | TDG<br>Classification | DOT<br>Classification | ADR/RID        | IMDG           | IATA           |
|----------------------------|-----------------------|-----------------------|----------------|----------------|----------------|
| UN number                  | Not regulated.        | Not regulated.        | Not regulated. | Not regulated. | Not regulated. |
| UN proper shipping name    | -                     | -                     | -              | -              | -              |
| Transport hazard class(es) | -                     | -                     | -              | -              | -              |
| Packing group              | -                     | -                     | -              | -              | -              |
| Environmental hazards      | No.                   | No.                   | No.            | No.            | No.            |

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according: Not available.

to Annex II of MARPOL and

the IBC Code

### Section 15. Regulatory information

#### **Canadian lists**

**Canadian NPRI** : None of the components are listed. **CEPA Toxic substances** : None of the components are listed.

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** 

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

**Australia** : Not determined. Canada : Not determined. China : Not determined. **Europe** : Not determined.

Japan inventory (ENCS): Not determined. **Japan** 

Japan inventory (ISHL): Not determined.

Malaysia : Not determined. **New Zealand** : Not determined. : Not determined. **Philippines** 

Anti-Splash Urinal Screen Ocean Breeze

# Section 15. Regulatory information

Republic of Korea : Not determined.
Taiwan : Not determined.
Thailand : Not determined.
Turkey : Not determined.

United States : All components are listed or exempted.

Viet Nam : Not determined.

### Section 16. Other information

<u>History</u>

Date of printing : 6/25/2019

Date of issue/Date of : 6/25/2019

revision

Date of previous issue : No previous validation

Version : 1

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships.

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

HPR = Hazardous Products Regulations

#### Procedure used to derive the classification

| Classification                  | Justification   |
|---------------------------------|-----------------|
| SKIN SENSITIZATION - Category 1 | Expert judgment |

References : Not available.

▼ Indicates information that has changed from previously issued version.

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot quarantee that these are the only hazards that exist.