

ekcoscreen

Safety Data Sheet

EKS-13C

Orange / Citrus Fragrance

SECTION 1: IDENTIFICATION

1.1 Product identifier

| | |
|--------------|--|
| Product name | Orange / Citrus Fragrance |
| Product code | EKS-13C, EKS-13C-12 |
| Product type | Fragranced solid plastic urinal screen |

1.2 Recommended use and restrictions on use

| | |
|----------------------|---|
| Recommended use | Urinal hygiene — professional/institutional use |
| Uses advised against | Any use other than specified above |

1.3 Supplier information

| | |
|-----------|---|
| Company | Ekcos Innovations |
| Address | 12000 US Hwy 281 N, Round Mountain, TX 78663, USA |
| Telephone | (925) 371-1277 |
| Email | info@ekcos.com |

1.4 Emergency telephone number

| | |
|--------------------------|--|
| Emergency contact (24/7) | (510) 908-3114 |
| Business hours | (925) 371-1277 Option 2 (M–F 8:00–16:00 PST) |

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the chemical

In accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200

| Hazard Class | Category | H-Statement |
|--------------------|------------|---|
| Skin Sensitization | Category 1 | H317 — May cause an allergic skin reaction. |

2.2 Label elements

| | |
|------------------|--|
| Hazard pictogram |  Exclamation mark (GHS07) |
|------------------|--|

| | |
|-------------------------|---|
| Signal word | Warning |
| Hazard statement | H317 — May cause an allergic skin reaction. |

Precautionary statements:

| Code | Statement |
|-----------|--|
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P280 | Wear protective gloves. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P363 | Wash contaminated clothing before reuse. |
| P501 | Dispose of contents/container in accordance with applicable Federal, State and local laws and regulations. |

2.3 Hazards not otherwise classified (HNOC)

This product is a solid article. Under normal conditions of use, the following hazards do not apply: flammability, acute oral toxicity, acute inhalation toxicity. No additional hazards have been identified.

2.4 Unknown acute toxicity

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

| Component | CAS No. | Concentration |
|--------------------------------------|--------------------|---------------------|
| Ethylenevinylacetate copolymer (EVA) | 24937-78-8 | 95–99% (w/w) |
| Fragrance (Orange / Citrus) | Mixture | 1–5% (w/w) |
| ↳ d-Limonene | 5989-27-5 | 2.0–<2.55% (w/w) |
| ↳ Citral | 5392-40-5 | 0.125–<0.25% (w/w) |
| ↳ Hexyl cinnamic aldehyde (HCA) | 101-86-0 | 0.125–<0.25% (w/w) |
| ↳ Linalool | 78-70-6 | 0.125–<0.25% (w/w) |
| ↳ Citronellol | 106-22-9 | 0.125–<0.25% (w/w) |
| ↳ Alpha-Ionone | 127-41-3 | 0.050–<0.125% (w/w) |
| ↳ 2-t-Butylcyclohexyl acetate | 88-41-5 | 0.050–<0.125% (w/w) |
| Eco-One EG35 (biobased additive) | Polyolefin mixture | <1% (w/w) |

Additional fragrance components are present at concentrations below the 1% disclosure threshold under OSHA HazCom 2012 (29 CFR 1910.1200). The skin sensitization classification (H317) is attributable to d-Limonene, Citral, Hexyl cinnamic aldehyde (HCA), Linalool, Citronellol, Alpha-Ionone, 2-t-Butylcyclohexyl acetate, present above the 0.1% GHS classification threshold for skin sensitizers. Fragrance components are used exclusively for olfactory purposes.

SECTION 4: FIRST-AID MEASURES

4.1 Description of first-aid measures

| | |
|---------------------|--|
| Inhalation | Not an expected route of exposure under normal conditions of use. If discomfort occurs, move person to fresh air. If symptoms persist, seek medical attention. |
| Skin contact | This product may cause an allergic skin reaction in sensitized individuals. Remove contaminated clothing. Wash affected area thoroughly with soap and water for at least 15 minutes. If skin irritation or rash develops, seek medical attention and bring this SDS. |
| Eye contact | Not an expected route of exposure under normal conditions of use. If contact occurs, flush eyes with clean water for at least 15 minutes. Remove contact lenses after first 1–2 minutes if present and easy to do. If irritation persists, seek medical attention. |
| Ingestion | Not an expected route of exposure under normal conditions of use. This product is a solid article and is not intended for ingestion. If swallowed, do not induce vomiting. Seek medical attention immediately and bring this SDS. |

4.2 Most important symptoms and effects, both acute and delayed

| Route | Symptoms |
|--------------|--|
| Skin contact | Allergic skin reaction, redness, rash or itching in sensitized individuals |
| Eye contact | Possible mechanical irritation |
| Inhalation | No significant effects expected under normal conditions of use |
| Ingestion | No significant effects expected under normal conditions of use |

4.3 Indication of any immediate medical attention and special treatment needed

No specific antidote. Treat symptomatically. If skin sensitization reaction occurs, consult a physician. Bring this SDS to any medical consultation.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water fog or fine spray, dry chemical, carbon dioxide (CO₂), foam.

Unsuitable extinguishing media: Do not use direct water stream — may spread burning material.

5.2 Special hazards arising from the chemical

This product is a solid plastic article and is not classified as flammable under OSHA HazCom 2012. Under fire conditions, thermal decomposition may generate hazardous combustion products including carbon monoxide (CO), carbon dioxide (CO₂), and other organic compounds.

5.3 Special protective equipment and precautions for fire-fighters

Firefighters should wear full protective clothing and NIOSH-approved self-contained breathing apparatus (SCBA) operated in positive pressure mode. Cool surrounding containers and structures with water to prevent fire spread.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

This product is a solid article. In the event of accidental release (e.g., spilled units), no special emergency procedures are required. Pick up units manually. Wear protective gloves as indicated in Section 8.

6.2 Environmental precautions

This product is not classified as environmentally hazardous. Prevent loose units from entering drains, sewers or waterways.

6.3 Methods and materials for containment and cleaning up

Collect spilled product units manually and place in a suitable container for disposal in accordance with Section 13. No special cleanup materials required.

6.4 Reference to other sections

See Section 8 for personal protective equipment. See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

| Aspect | Guidance |
|------------------------|---|
| General handling | Handle with care. Wash hands thoroughly after handling. Avoid prolonged or repeated skin contact. |
| Sensitized individuals | Persons with known skin sensitization to fragrance components should avoid direct and prolonged skin contact. |
| Hygiene measures | Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before reuse. |

7.2 Conditions for safe storage, including any incompatibilities

| Parameter | Requirement |
|-------------------|---|
| Temperature | Store between 5°C and 35°C (41°F – 95°F) |
| Conditions | Store in a cool, dry, well-ventilated area away from direct sunlight and heat sources |
| Incompatibilities | Keep away from strong acids, strong bases, and strong oxidizing agents |
| Container | Keep in original sealed packaging until use |

7.3 Specific end use(s)

This product is designed for single use as a urinal hygiene screen in professional/institutional restroom facilities. No other end uses are recommended.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No specific OSHA Permissible Exposure Limit (PEL) or ACGIH Threshold Limit Value (TLV) has been established for the fragrance components at the concentrations present in this finished solid product. Exposure is not expected under normal handling conditions.

| Component | CAS No. | OSHA PEL | ACGIH TLV |
|-------------------------------|-----------|------------------|------------------|
| d-Limonene | 5989-27-5 | None established | None established |
| Citral | 5392-40-5 | None established | None established |
| Hexyl cinnamic aldehyde (HCA) | 101-86-0 | None established | None established |
| Linalool | 78-70-6 | None established | None established |
| Citronellol | 106-22-9 | None established | None established |
| Alpha-Ionone | 127-41-3 | None established | None established |
| 2-t-Butylcyclohexyl acetate | 88-41-5 | None established | None established |

8.2 Appropriate engineering controls

No special ventilation or engineering controls are required under normal conditions of use. General room ventilation is considered adequate.

8.3 Individual protection measures

| PPE Type | Requirement |
|------------------------|---|
| Skin protection | Protective gloves recommended when handling multiple units or for individuals with known skin sensitivity to fragrance. Nitrile or latex gloves are suitable. |
| Eye/face protection | Not required under normal conditions of use. |
| Respiratory protection | Not required under normal conditions of use. General ventilation is adequate. |
| Body protection | Standard work clothing. Wash hands after handling. |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| Property | Value/Description |
|-------------------------|--|
| 9.1 Appearance | Solid plastic mat/screen. Color: Orange. |
| 9.2 Odor | Orange / Citrus fragrance |
| 9.3 Odor threshold | Not determined |
| 9.4 pH | Not applicable (solid article) |
| 9.5 Melting point/range | Approx. 70°C (158°F) — softening point of EVA matrix |
| 9.6 Boiling point | Not applicable (solid article) |
| 9.7 Flash point | Not applicable (solid article — not classified as flammable) |
| 9.8 Evaporation rate | Not applicable (solid article) |
| 9.9 Flammability | Not classified as flammable solid under OSHA HazCom 2012 |

| | |
|--|---|
| 9.10 Upper/lower flammability limits | Not applicable |
| 9.11 Vapor pressure | Not applicable (solid article) |
| 9.12 Vapor density | Not applicable |
| 9.13 Relative density | Approx. 0.94 g/cm ³ (EVA matrix) |
| 9.14 Solubility | Insoluble in water |
| 9.15 Partition coefficient (n-octanol/water) | Not applicable (mixture/solid article) |
| 9.16 Auto-ignition temperature | Not determined |
| 9.17 Decomposition temperature | Approx. >200°C (>392°F) |
| 9.18 Viscosity | Not applicable (solid article) |

SECTION 10: STABILITY AND REACTIVITY

| Parameter | Assessment |
|---|--|
| 10.1 Reactivity | No specific reactivity hazard under normal conditions of use or storage. |
| 10.2 Chemical stability | Stable under recommended storage conditions. See Section 7. |
| 10.3 Possibility of hazardous reactions | Hazardous polymerization will not occur. No hazardous reactions expected under normal conditions. |
| 10.4 Conditions to avoid | Excessive heat (above 35°C for prolonged periods), direct sunlight, strong oxidizing agents. |
| 10.5 Incompatible materials | Strong acids, strong bases, strong oxidizing agents. |
| 10.6 Hazardous decomposition products | Under normal conditions of use, no hazardous decomposition products are expected. Under fire conditions: carbon monoxide (CO), carbon dioxide (CO ₂) and other organic compounds. See Section 5. |

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

| Hazard Category | Assessment |
|-------------------------------|--|
| Acute toxicity — oral | Not classified. Product is a solid article not intended for ingestion. |
| Acute toxicity — dermal | Not classified. |
| Acute toxicity — inhalation | Not classified. Product is a solid article — airborne exposure not expected under normal conditions of use. |
| Skin corrosion/irritation | Not classified. No components present at or above classification thresholds. |
| Serious eye damage/irritation | Not classified. No components present at or above classification thresholds. |
| Respiratory sensitization | Not classified. |
| Skin sensitization | CATEGORY 1 — H317. May cause an allergic skin reaction. Attributable to d-Limonene, Citral, Hexyl cinnamic aldehyde (HCA), Linalool, Citronellol, Alpha-Ionone, 2-t-Butylcyclohexyl acetate, present above the 0.1% GHS classification threshold for skin sensitizers. |
| Germ cell mutagenicity | Not classified. No components present at or above classification thresholds. |

| | |
|--------------------------|--|
| Carcinogenicity | Not classified. No components present at or above classification thresholds under OSHA, NTP or IARC classifications. |
| Reproductive toxicity | Not classified. No components present at or above classification thresholds. |
| STOT — single exposure | Not classified. |
| STOT — repeated exposure | Not classified. |
| Aspiration hazard | Not applicable. Product is a solid article. |

11.2 Toxicological data for declared components

| Component | CAS No. | LD50 oral | LD50 dermal | LC50 inhalation |
|-------------------------------|-----------|-------------------|----------------|-----------------|
| d-Limonene | 5989-27-5 | 4,400 mg/kg (rat) | >5,000 mg/kg | Not determined |
| Citral | 5392-40-5 | 4,960 mg/kg (rat) | >5,000 mg/kg | Not determined |
| Hexyl cinnamic aldehyde (HCA) | 101-86-0 | 3,100 mg/kg (rat) | >5,000 mg/kg | Not determined |
| Linalool | 78-70-6 | 2,790 mg/kg (rat) | >5,000 mg/kg | Not determined |
| Citronellol | 106-22-9 | 3,450 mg/kg (rat) | >5,000 mg/kg | Not determined |
| Alpha-Ionone | 127-41-3 | Not determined | Not determined | Not determined |
| 2-t-Butylcyclohexyl acetate | 88-41-5 | 2,750 mg/kg (rat) | >2,000 mg/kg | Not determined |

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

This product is a finished solid article. Under normal conditions of use, it is not expected to present ecological hazards. No components are present at concentrations that would classify this product as environmentally hazardous under OSHA HazCom 2012.

| Component | CAS No. | Aquatic toxicity data |
|-------------------------------|-----------|--|
| d-Limonene | 5989-27-5 | LC50 (fish, 96h): 0.62 mg/L — not present at ecotoxicologically relevant concentrations in finished product. |
| Hexyl cinnamic aldehyde | 101-86-0 | LC50 (fish, 96h): 0.62 mg/L — not present at ecotoxicologically relevant concentrations in finished product. |
| All other declared components | Various | Not present at ecotoxicologically relevant concentrations in the finished product. |

12.2 Persistence and degradability

| Component | Assessment |
|----------------------|--|
| EVA plastic matrix | Enhanced anaerobic biodegradability in biologically active landfills, facilitated by the Eco-One EG35 biobased additive (<1% w/w). Independent laboratory testing by Instituto Politécnico Nacional (Mexico City, 2017) per ASTM D-5511-02 and ISO-15985:2014 demonstrated 93.31% biodegradation at 1,288 days under anaerobic conditions. Enhanced biodegradation is specific to biologically active landfills — not expected under standard storage or use conditions. |
| Fragrance components | Readily biodegradable based on available data for declared components. |

12.3 Bioaccumulation potential

Fragrance components present in this product have low bioaccumulation potential based on available data for declared components.

12.4 Mobility in soil

This product is a solid article. Under normal conditions of use, mobility in soil is not expected. Prevent product from entering waterways or soil.

12.5 Other adverse effects

No other adverse ecological effects are known or expected under normal conditions of use.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product disposal:

This product is a finished solid plastic article. It is not classified as hazardous waste under the Resource Conservation and Recovery Act (RCRA) or applicable Federal, State, or local regulations.

This product contains Eco-One EG35 biobased additive, which has been independently validated to enhance anaerobic biodegradation in biologically active landfills per ASTM D-5511-02 and ISO-15985:2014. Disposal in municipal solid waste (landfill) is the recommended end-of-life option for this product.

Disposal must comply with applicable Federal, State, and local regulations. Regulations may vary by location — it is the responsibility of the waste generator to verify local requirements.

Packaging disposal:

Dispose of packaging materials in accordance with applicable Federal, State, and local regulations.

13.2 Additional considerations

Do not dispose of product in drains, sewers, or waterways. Do not incinerate unless in compliance with applicable regulations.

For Canada: Disposal must comply with applicable Federal and Provincial regulations under the Canadian Environmental Protection Act (CEPA) and applicable Provincial legislation.

SECTION 14: TRANSPORT INFORMATION

| Parameter | Assessment |
|---------------------------------|---|
| 14.1 UN Number | Not regulated — not applicable. |
| 14.2 UN Proper Shipping Name | Not regulated — not applicable. |
| 14.3 Transport hazard class(es) | Not regulated — not applicable. |
| 14.4 Packing group | Not regulated — not applicable. |
| 14.5 Environmental hazards | Not classified as environmentally hazardous for transport purposes. |
| 14.6 Special precautions | No special transport precautions required. |

| | |
|------------------------|--|
| 14.7 Transport in bulk | Not applicable — product is not transported in bulk. |
|------------------------|--|

Applicable transport regulations:

| Regulation | Status |
|--|---------------|
| USA — DOT 49 CFR (Hazardous Materials Regulations) | Not regulated |
| Canada — TDG (Transportation of Dangerous Goods) | Not regulated |
| International maritime — IMDG | Not regulated |
| International air — IATA/ICAO | Not regulated |

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific to the product

UNITED STATES

| Regulation | Status |
|-------------------------------------|--|
| OSHA Hazard Communication Standard | This Safety Data Sheet has been prepared in compliance with OSHA Hazard Communication Standard 29 CFR 1910.1200 and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Revision 3. |
| Toxic Substances Control Act (TSCA) | All components of this product are listed on the TSCA Chemical Substance Inventory or are exempt from listing requirements. |
| SARA Title III — Sections 311/312 | Skin Sensitizer — Yes. All other hazard categories — No. |
| SARA Title III — Section 313 | No components are present at or above reportable thresholds under Section 313. |
| CERCLA | No components are listed as CERCLA hazardous substances at concentrations that trigger reporting requirements. |
| California Proposition 65 | This product contains no substances known to the State of California to cause cancer, birth defects, or other reproductive harm at levels requiring a warning under Proposition 65. |
| EPA — RCRA | This product is not classified as hazardous waste under RCRA when disposed of as directed in Section 13. |

CANADA — WHMIS 2015

| Regulation | Status |
|--|---|
| WHMIS 2015 Classification | This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) under WHMIS 2015. Skin Sensitization — Category 1 (H317). |
| Domestic Substances List (DSL) | All components of this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed. |
| Canadian Environmental Protection Act (CEPA) | No components are identified as toxic under Schedule 1 of CEPA at the concentrations present in this product. |

15.2 Chemical safety assessment

No chemical safety assessment has been conducted for this product. This is not required under OSHA HazCom 2012 or WHMIS 2015.

SECTION 16: OTHER INFORMATION

16.1 Issue date and revision history

| Field | Information |
|-------------|---|
| Issue date | April 2025 |
| Version | 3 |
| Revision | 1 |
| Replaces | Version 2, Revision 3 — March 2024 (EKS-13C-202403) |
| Prepared by | Ekcoss Innovations |

16.2 Full text of hazard statements

| Code | Full text |
|------|--------------------------------------|
| H317 | May cause an allergic skin reaction. |

16.3 Full text of precautionary statements

| Code | Full text |
|-----------|--|
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P280 | Wear protective gloves. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P363 | Wash contaminated clothing before reuse. |
| P501 | Dispose of contents/container in accordance with applicable Federal, State and local laws and regulations. |

16.4 Abbreviations and acronyms

| Abbreviation | Definition |
|--------------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| ASTM | American Society for Testing and Materials |
| CASRN | Chemical Abstracts Service Registry Number |
| CEPA | Canadian Environmental Protection Act |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| CFR | Code of Federal Regulations |

| | |
|--------|---|
| DOT | U.S. Department of Transportation |
| DSL | Domestic Substances List (Canada) |
| EPA | U.S. Environmental Protection Agency |
| EVA | Ethylenevinylacetate copolymer |
| GHS | Globally Harmonized System of Classification and Labelling of Chemicals |
| HazCom | Hazard Communication Standard |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods Code |
| NIOSH | National Institute for Occupational Safety and Health |
| NTP | National Toxicology Program |
| OEL | Occupational Exposure Limit |
| OSHA | Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| PPE | Personal Protective Equipment |
| RCRA | Resource Conservation and Recovery Act |
| SARA | Superfund Amendments and Reauthorization Act |
| SDS | Safety Data Sheet |
| TDG | Transportation of Dangerous Goods (Canada) |
| TLV | Threshold Limit Value |
| TSCA | Toxic Substances Control Act |
| WHMIS | Workplace Hazardous Materials Information System (Canada) |

16.5 Disclaimer

The information contained in this Safety Data Sheet is based on data considered accurate as of the issue date. It is provided in good faith and is believed to be correct. However, no warranty, express or implied, is given as to its accuracy or completeness. This SDS is intended only as a guide for safe handling, use, storage, and disposal of the product. Ekcos Innovations shall not be liable for any damages resulting from the use of or reliance upon this information. Users are responsible for determining the suitability of this information for their specific applications and for complying with all applicable laws and regulations.