

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
 Product name : **Big Orange**
 Product code : 6822

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

Use of the substance/mixture : Natural-Based Cleaner

1.3. Details of the supplier of the safety data sheet

Crestek Cleaning Center, Inc.
 1161 Kapiolani Blvd.
 Honolulu, HI 96814
 T 1-(808) 942-2500

1.4. Emergency telephone number

Emergency number : CHEMTEL: 800-255-3924

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS US classification

Skin Irrit. 2 H315
 Eye Dam. 1 H318
 Skin Sens. 1 H317

Full text of H statements : see section 16

2.2. Label elements

GHS US labeling

Hazard pictograms :



Signal word :

Danger

Hazard statements :

Causes skin irritation.
 May cause an allergic skin reaction.
 Causes serious eye damage.

Precautionary statements :

Avoid breathing dust/fume/gas/mist/vapors/spray.
 Wash hands, forearms and face thoroughly after handling.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If on skin: Wash with plenty of water.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Immediately call a poison center or doctor/physician.
 Specific treatment (see supplemental first aid instruction on this label).
 If skin irritation occurs: Get medical advice/attention.
 If skin irritation or rash occurs: Get medical advice/attention.
 Take off contaminated clothing and wash it before reuse.
 Wash contaminated clothing before reuse.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Hazard not otherwise classified (HNOC)

No additional information available.

2.4. Unknown acute toxicity (GHS US)

No data available

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SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable.

(NOTE: If component displays the * (asterisk) symbol, the following statement applies.)

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret.

Full text of H-phrases: see section 16

3.2. Mixture

| Name | Product identifier | % | GHS US classification |
|--|---|---------|--|
| (+)-limonene | (CAS-No.) 5989-27-5 | 5 - 10 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| benzenesulfonic acid, C10-16-alkyl derivs., sodium salt/(Alternate sodium dodecyl benzene sulfonate) | (CAS-No.) 68081-81-2/(Alternate CAS#25155-30-0) | 1 - 5 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 |
| alcohols, C9-11, ethoxylated | (CAS-No.) 68439-46-3 | 1 - 5 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 2, H401 |
| tetrasodium ethylenediaminetetracetate | (CAS-No.) 64-02-8 | 1 - 5 | Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 |
| sodium xylenesulfonate | (CAS-No.) 1300-72-7 | 0.1 - 5 | Skin Irrit. 2, H315 STOT SE 3, H335 |

(NOTE: If component displays the * (asterisk) symbol, the following statement applies.)

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| First-aid measures general | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice. |
| First-aid measures after skin contact | : If skin irritation or rash occurs: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation persists, get medical attention. |
| First-aid measures after eye contact | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|-------------------------------------|---|
| Symptoms/effects | : Not expected to present a significant hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice. |
| Symptoms/effects after skin contact | : Causes skin irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Causes serious eye damage. |
| Symptoms/effects after ingestion | : FOLLOWING SYMPTOMS MAY APPEAR LATER: Irritation of the gastric/intestinal mucosa. Nausea. Gastrointestinal complaints. |

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|---|
| Suitable extinguishing media | : Alcohol-resistant foam. BC powder. Carbon dioxide. Dry chemical powder. Sand/earth. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

No additional information available.

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |
| Other information | : No additional information available. |

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Isolate from fire, if possible, without unnecessary risk.

6.1.1. For non-emergency personnel

Protective equipment : Protective goggles.
Protective gloves.
Protective clothing.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain released product, pump into suitable containers. Plug the leak, cut off the supply.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Wash down leftovers with plenty of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Do not breathe mist, vapors. Ensure good ventilation of the work station. Observe normal hygiene standards. Provide good ventilation in process area to prevent formation of vapor. Use only outdoors or in a well-ventilated area. Use personal protective equipment as required.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and forearms thoroughly after handling. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide local exhaust or general room ventilation. Comply with applicable regulations.

Incompatible products : Strong acids. Oxidizing agent.

Storage area : Store in a cool, dry well-ventilated area. Keep container tightly closed when not in use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. In case of insufficient ventilation, wear suitable respiratory equipment.

Other information : Do not eat, drink or smoke during use.

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

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| | |
|---|---------------------|
| Color | : Clear orange |
| Odor | : Citrus |
| Odor threshold | : No data available |
| pH | : 9.5 - 10.5 |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : > 212 °F |
| Flash point | : > 200 °F |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : No data available |
| Explosion limits | : No data available |
| Vapor pressure | : No data available |
| Vapor density | : No data available |
| Specific Gravity @ 77° F | : 0.998 - 1.018 |
| Solubility | : Soluble in water |
| Partition Coefficient n-Octanol-Water | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity | : No data available |

9.2. Other information

| | |
|-------------|------------|
| VOC content | : < 55 g/l |
|-------------|------------|

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Oxidizing agent.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Nitrogen oxides. Sulfur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|----------------|------------------|
| Acute toxicity | : Not classified |
|----------------|------------------|

tetrasodium ethylenediaminetetracetate (64-02-8)

| | |
|---------------|-----------------------|
| LD50 oral rat | > 2000 mg/kg (Rat) |
| ATE US (oral) | 500 mg/kg body weight |

(+)-limonene (5989-27-5)

| | |
|--------------------|---|
| LD50 oral rat | 4400 mg/kg body weight (Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Literature study; > 2000 mg/kg bodyweight; Rat; Read-across) |
| LD50 dermal rabbit | > 5000 mg/kg body weight (Rabbit; Weight of evidence; Equivalent or similar to OECD 402) |
| ATE US (oral) | 4400 mg/kg body weight |

alcohols, C9-11, ethoxylated (68439-46-3)

| | |
|--------------------|------------------------|
| LD50 oral rat | 1378 mg/kg (Rat) |
| LD50 dermal rabbit | > 2000 mg/kg (Rabbit) |
| ATE US (oral) | 1378 mg/kg body weight |

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| sodium xylenesulfonate (1300-72-7) | |
|---|------------------------|
| LD50 oral rat | 3346 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| ATE US (oral) | 3346 mg/kg body weight |

| benzenesulfonic acid, C10-16-alkyl derivs., sodium salt/(Alternate sodium dodecyl benzene sulfonate) (68081-81-2/(Alternate CAS#25155-30-0)) | |
|---|-----------------------|
| ATE US (oral) | 500 mg/kg body weight |

| | |
|-----------------------------------|---|
| Skin corrosion/irritation | : Causes skin irritation. pH: 9.5 - 10.5 |
| Serious eye damage/irritation | : Causes serious eye damage. pH: 9.5 - 10.5 |
| Respiratory or skin sensitization | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified Based on available data, the classification criteria are not met. |
| Carcinogenicity | : Not classified |

| (+)-limonene (5989-27-5) | |
|---------------------------------|----------------------|
| IARC group | 3 - Not classifiable |

| | |
|---|---|
| Reproductive toxicity | : Not classified Based on available data, the classification criteria are not met. |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |
| Symptoms/effects after skin contact | : Causes skin irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Causes serious eye damage. |
| Symptoms/effects after ingestion | : FOLLOWING SYMPTOMS MAY APPEAR LATER: Irritation of the gastric/intestinal mucosa. Nausea. Gastrointestinal complaints. |

SECTION 12: Ecological information

12.1. Toxicity

| tetrasodium ethylenediaminetetracetate (64-02-8) | |
|---|--|
| LC50 fish 1 | 121 mg/l (96 h; Lepomis macrochirus; Soft water) |
| EC50 Daphnia 1 | 625 mg/l (24 h; Daphnia magna) |
| LC50 fish 2 | 374 - 792 mg/l (96 h; Lepomis macrochirus; pH > 7) |
| Threshold limit algae 1 | > 100 mg/l (72 h; Scenedesmus subspicatus; Growth) |

| (+)-limonene (5989-27-5) | |
|---------------------------------|---|
| LC50 fish 1 | 720 µg/l (96 h; Pimephales promelas; Lethal) |
| EC50 Daphnia 1 | 0.36 mg/l (48 h; Daphnia magna; GLP) |
| LC50 fish 2 | 702 µg/l (96 h; Pimephales promelas) |
| Threshold limit algae 1 | 150 mg/l (72 h; Desmodesmus subspicatus; GLP) |
| Threshold limit algae 2 | 2.62 mg/l (72 h; Desmodesmus subspicatus) |

| alcohols, C9-11, ethoxylated (68439-46-3) | |
|--|--------------------------|
| LC50 fish 1 | 5.7 mg/l (Rainbow trout) |
| EC50 Daphnia 1 | 2.5 mg/l |

| sodium xylenesulfonate (1300-72-7) | |
|---|-----------------------------|
| LC50 fish 1 | > 1580 mg/l (Rainbow trout) |
| EC50 Daphnia 1 | > 1020 mg/l |
| ErC50 (algae) | 758 mg/l |
| NOEC chronic algae | 240 mg/l |

12.2. Persistence and degradability

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| tetrasodium ethylenediaminetetracetate (64-02-8) | |
|---|---|
| Persistence and degradability | Not readily biodegradable in water. |
| Biochemical oxygen demand (BOD) | < 0.002 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 0.54 - 0.58 g O ₂ /g substance |

| (+)-limonene (5989-27-5) | |
|---------------------------------|--|
| Persistence and degradability | Readily biodegradable in water. Forming sediments in water. Absorbs into the soil. |
| ThOD | 3.29 g O ₂ /g substance |

| alcohols, C9-11, ethoxylated (68439-46-3) | |
|--|---------------------------------|
| Persistence and degradability | Readily biodegradable in water. |

| sodium xylenesulfonate (1300-72-7) | |
|---|---|
| Persistence and degradability | Biodegradability in water: no data available. |

12.3. Bioaccumulative potential

| tetrasodium ethylenediaminetetracetate (64-02-8) | |
|---|----------------------------------|
| Log Pow | -2.6 |
| Bioaccumulative potential | Bioaccumulation: not applicable. |

| (+)-limonene (5989-27-5) | |
|---------------------------------|--|
| BCF fish 1 | 864.8 - 1022 (Pisces; Fresh weight) |
| Log Pow | 4.38 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 37 °C) |
| Bioaccumulative potential | Potential for bioaccumulation (4 ≥ Log Kow ≤ 5). |

| alcohols, C9-11, ethoxylated (68439-46-3) | |
|--|------------------------------------|
| Bioaccumulative potential | No bioaccumulation data available. |

| sodium xylenesulfonate (1300-72-7) | |
|---|------------------------------------|
| Bioaccumulative potential | No bioaccumulation data available. |

12.4. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container in accordance with Local, State, and Federal regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1. UN Number

UN-No.(DOT) : Not Regulated
Other information : No supplementary information available.

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not Regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

| tetrasodium ethylenediaminetetracetate (64-02-8) | |
|--|---------------------------------|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory. | |
| Listed on the Canadian DSL (Domestic Substances List). | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |

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(+)-limonene (5989-27-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.
Listed on the Canadian DSL (Domestic Substances List).

| | |
|-------------------------------------|---|
| SARA Section 311/312 Hazard Classes | Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard |
|-------------------------------------|---|

alcohols, C9-11, ethoxylated (68439-46-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.
Listed on the Canadian DSL (Domestic Substances List).

| | |
|-------------------------------------|---|
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711). |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |

sodium xylenesulfonate (1300-72-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.
Listed on the Canadian DSL (Domestic Substances List).

| | |
|-------------------------------------|---------------------------------|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |
|-------------------------------------|---------------------------------|

benzenesulfonic acid, C10-16-alkyl derivs., sodium salt/(Alternate sodium dodecyl benzene sulfonate) (68081-81-2/(Alternate CAS#25155-30-0))

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

| | |
|-------------------------------------|---------------------------------|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |
|-------------------------------------|---------------------------------|

15.2. International regulations

CANADA

chelant (64-02-8)

Listed on the Canadian DSL (Domestic Substances List).

(+)-limonene (5989-27-5)

Listed on the Canadian DSL (Domestic Substances List).

alcohols, C9-11, ethoxylated (68439-46-3)

Listed on the Canadian DSL (Domestic Substances List).

proprietary ingredient (1300-72-7)

Listed on the Canadian DSL (Domestic Substances List).

EU-Regulations

No additional information available.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

SECTION 16: Other information

Abbreviations Legend:

| | |
|------|--|
| H226 | Flammable liquid and vapor |
| H302 | Harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |
| H400 | Very toxic to aquatic life |
| H401 | Toxic to aquatic life |

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H410

Very toxic to aquatic life with long lasting effects

Disclaimer

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ALL NON-EMERGENCY QUESTIONS SHOULD BE DIRECTED TO CUSTOMER SERVICE 1-(808) 942-2500

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