



# Citri- Force- 3122, 3124

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 10/15/2015

ADVANTAGE®

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Citri- Force- 3122, 3124  
Product code : 20184

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

#### 1.3. Details of the supplier of the safety data sheet

Advantage Chemical, LLC  
Temecula, CA, 92590  
T 1-855-238-2436

#### 1.4. Emergency telephone number

Emergency number : 1-800-424-9300  
ChemTrec

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Skin Corr. 1A H314  
Eye Corr. 1 H320

Full text of H-statements: see section 16

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS05

Signal word (GHS-US) : Danger  
Hazard statements (GHS-US) : H314 - Causes severe skin burns and eye damage  
H320 - Causes eye irritation  
Precautionary statements (GHS-US) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray  
P264 - Wash hands, forearms and face thoroughly after handling  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P363 - Wash contaminated clothing before reuse  
P405 - Store locked up  
P501 - Dispose of contents/container to a licensed hazardous waste facility in accordance with state and local agencies

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS-US)

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

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### 3.2. Mixture

| Name   | Product identifier | %      | GHS-US classification  |
|--|--------------------|--------|--|
| disodium metasilicate                        | (CAS No) 6834-92-0 | 1 - 10 | Skin Corr. 1A, H314  |
| sodium hydroxide, conc=50%, aqueous solution | (CAS No) 1310-73-2 | 1 - 5  | Skin Corr. 1A, H314  |
| Diethylene glycol monobutyl ether            | (CAS No) 112-34-5  | 0.5    | Flam. Liq. 4, H227<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 3 (Dermal), H311 |

Full text of H-statements: see section 16

## 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   | : Allow breathing of fresh air. Allow the victim to rest.  |
| First-aid measures after skin contact | : Wash with water and soap. If skin irritation occurs: Get medical advice/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. |
| First-aid measures after ingestion    | : Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.                                       |

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

|                                      |                         |
|--------------------------------------|-------------------------|
| Symptoms/injuries after skin contact | Causes skin irritation. |
| Symptoms/injuries after eye contact  | Causes eye damage.      |

### 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   | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| 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.   |

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

|                      |                                   |
|----------------------|-----------------------------------|
| 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

|                         |  |
|-------------------------|--|
| 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. |
|-------------------------|--|

### 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 | : Avoid contact with skin, eyes and clothing.   |
| Hygiene measures              | : Always wash hands after handling the product. |





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|                                   |                  |
|-----------------------------------|------------------|
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity            | : Not classified |
| Carcinogenicity                   | : Not classified |

|                                   |                      |
|-----------------------------------|----------------------|
| <b>2-butoxyethanol (111-76-2)</b> |                      |
| IARC group                        | 3 - Not classifiable |

|  |                  |
|--|------------------|
| Reproductive toxicity                            | : Not classified |
| Specific target organ toxicity (single exposure) | : Not classified |

|  |                  |
|--|------------------|
| Specific target organ toxicity (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/injuries after skin contact | : Causes skin irritation. |
|--------------------------------------|---------------------------|

|                                     |                          |
|-------------------------------------|--------------------------|
| Symptoms/injuries after eye contact | : Causes eye irritation. |
|-------------------------------------|--------------------------|

## SECTION 12: Ecological information

### 12.1. Toxicity

|                                   |  |
|-----------------------------------|--|
| <b>2-butoxyethanol (111-76-2)</b> |  |
| LC50 fish 1                       | 116 ppm (96 h; Cyprinodon variegatus; Nominal concentration) |
| EC50 Daphnia 1                    | 1700 mg/l (48 h; Daphnia sp.; Nominal concentration)         |
| LC50 fish 2                       | 1341 ppm (96 h; Lepomis macrochirus)                         |
| EC50 Daphnia 2                    | 1720 mg/l (24 h; Daphnia magna)                              |
| TLM fish 1                        | 100 - 1000,96 h; Pisces                                      |
| TLM other aquatic organisms 1     | 100 - 1000,96 h  |
| Threshold limit algae 1           | 900 mg/l (168 h; Scenedesmus quadricauda)                    |
| Threshold limit algae 2           | 35 mg/l (192 h; Microcystis aeruginosa)                      |

|  |   |
|--|---|
| <b>disodium metasilicate (6834-92-0)</b> |   |
| LC50 fish 1                              | 210 mg/l (96 h; Brachydanio rerio)            |
| EC50 Daphnia 1                           | 216 mg/l (96 h; Daphnia magna; GLP)           |
| LC50 fish 2                              | 2320 mg/l (96 h; Gambusia affinis)            |
| EC50 Daphnia 2                           | 632 mg/l (96 h; Lymnaea sp.)                  |
| Threshold limit algae 1                  | 207 mg/l (72 h; Scenedesmus subspicatus; GLP) |

### 12.2. Persistence and degradability

|                                 |                  |
|---------------------------------|------------------|
| <b>Citri- Force- 3122, 3124</b> |                  |
| Persistence and degradability   | Not established. |

|                                   |   |
|-----------------------------------|---|
| <b>2-butoxyethanol (111-76-2)</b> |   |
| Persistence and degradability     | Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air. |
| Biochemical oxygen demand (BOD)   | 0.71 g O <sub>2</sub> /g substance  |
| Chemical oxygen demand (COD)      | 2.20 g O <sub>2</sub> /g substance  |
| ThOD                              | 2.305 g O <sub>2</sub> /g substance   |
| BOD (% of ThOD)                   | 0.31 % ThOD   |

|  |   |
|--|---|
| <b>disodium metasilicate (6834-92-0)</b> |   |
| Persistence and degradability            | Biodegradability: not applicable. No (test)data on mobility of the substance available. |
| Biochemical oxygen demand (BOD)          | Not applicable  |
| Chemical oxygen demand (COD)             | Not applicable  |
| ThOD                                     | Not applicable  |
| BOD (% of ThOD)                          | Not applicable  |

|   |  |
|---|--|
| <b>sodium hydroxide, conc=50%, aqueous solution (1310-73-2)</b> |  |
| Persistence and degradability                                   | Biodegradability: not applicable. No (test)data on mobility of the components available. |

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### 12.3. Bioaccumulative potential

| Citri- Force- 3122, 3124                                 |   |
|--|---|
| Bioaccumulative potential                                | Not established.  |
| 2-butoxyethanol (111-76-2)                               |   |
| Log Pow  | 0.81 (Experimental value; 25 °C, Experimental value; 25 °C) |
| Bioaccumulative potential                                | Low potential for bioaccumulation (Log Kow < 4).            |
| disodium metasilicate (6834-92-0)                        |   |
| Bioaccumulative potential                                | Bioaccumulation: not applicable.                            |
| sodium hydroxide, conc=50%, aqueous solution (1310-73-2) |   |
| Bioaccumulative potential                                | Does not contain bioaccumulative component(s).              |

### 12.4. Mobility in soil

| 2-butoxyethanol (111-76-2) |                   |
|----------------------------|-------------------|
| Surface tension            | 0.027 N/m (25 °C) |

### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/containers in hazardous or special waste collection point, an approved disposal plant, a licensed hazardous waste disposal contractor or authorized waste collection site in accordance with local, regional and/or international regulation, except for empty clean containers which can be disposed of as non hazardous waste.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### Department of Transportation (DOT)

Regulated

UN3266 Corrosive liquid, inorganic, basic, n.o.s (Sodium hydroxide), 8, II

### Additional information

Other information : No supplementary information available.

### ADR

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

| 2-butoxyethanol (111-76-2)   |  |
|--|--|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory  |  |
| SARA Section 313 - Emission Reporting  | 100 % 2-butoxyethanol (N230 Certain Glycol Ethers) |
| disodium metasilicate (6834-92-0)  |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory  |  |
| sodium hydroxide, conc=50%, aqueous solution (1310-73-2)   |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Not subject to reporting requirements of the United States SARA Section 313 |  |
| RQ (Reportable quantity, section 304 of EPA's List of Lists)   | 1000 lb  |

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### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

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

No additional information available

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

Not classified

#### National regulations

No additional information available

### 15.3. US State regulations

#### 2-butoxyethanol (111-76-2)

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

#### sodium hydroxide, conc=50%, aqueous solution (1310-73-2)

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information

Revision date : 12/28/2021

Other information : None.

Full text of H-statements:

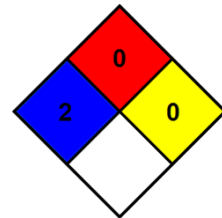
|                       |  |
|-----------------------|--|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3            |
| Acute Tox. 4 (Oral)   | Acute toxicity (oral), Category 4              |
| Eye Irrit. 2B         | Serious eye damage/eye irritation, Category 2B |
| Flam. Liq. 4          | Flammable liquids, Category 4                  |
| Skin Corr. 1A         | Skin corrosion/irritation, Category 1A         |
| H227                  | Combustible liquid                             |
| H302                  | Harmful if swallowed                           |
| H311                  | Toxic in contact with skin                     |
| H314                  | Causes severe skin burns and eye damage        |
| H320                  | Causes eye irritation                          |

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

NFPA specific hazard : None



HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal Protection : B

B - Safety glasses, Gloves

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SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*