

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier**Product Name** Citrus Cleaner & Degreaser**Other means of identification****Product Code** 670281**Synonyms** None**Details of the supplier of the safety data sheet****Company Name** Global Industrial
2505 Mill Center Parkway
Buford GA 30518
(516) 608-3000**Emergency telephone number****Emergency Telephone** Chemtrec (US & Canada) 800-424-9300
Chemtrec (outside US & Canada) 703-527-3887

2. HAZARDS IDENTIFICATION

Classification**OSHA Regulatory Status**

This product has been classified in accordance with the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|-------------------------|----------------|
| Acute toxicity - Oral | Not classified |
| Acute toxicity - Dermal | Not classified |

Label elements**Emergency Overview****Appearance** Clear Orange**Physical state** Liquid**Odor** Orange**Precautionary Statements - Response**

Specific Treatment (See Section 4 on the SDS)

IF INHALED: 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

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Drink plenty of water

Immediately call a POISON CENTER or doctor/physician

Precautionary Statements - Disposal

Disposal should be in accordance with applicable regional, national and local laws and regulations

Hazards not otherwise classified (HNOC)**Other Information**

Unknown Acute Toxicity 0.02% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No. | Weight-% | Trade Secret |
|---------------------------|-----------|----------|--------------|
| 2-(2-butoxyethoxy)ethanol | 112-34-5 | 1-5 | * |
| Orange Terpenes | 5989-27-5 | .1-1 | * |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

| | |
|---------------------|---|
| Skin Contact | Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions see a physician. |
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| Inhalation | Remove to fresh air. |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. |

Most important symptoms and effects, both acute and delayed

Symptoms Any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

No Information available.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions Do not allow into any storm sewer drains, lakes, streams, ponds, estuaries, oceans or other surface water bodies. Should not be released into the environment. Dispose of according to all local city, state and federal rules and regulations.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---------------------------------------|---|--|--|
| 2-(2-butoxyethoxy)ethanol 112-34-5 | TWA: 10 ppm inhalable fraction and vapor | - | - |
| Sodium Hydroxide 1310-73-2 | Ceiling: 2 mg/m ³ | TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³ | IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³ |

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Controls Showers, Eyewash stations & Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses if handling large volume.

Skin and body protection Rubber gloves if prolonged contact and/or handling large volumes.

Respiratory protection Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. If irritation is experienced, move to a well ventilated area.

General Hygiene Handle in accordance with good industrial hygiene and safety practice. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid
Appearance Clear Orange
Color Orange
Odor Orange
Odor threshold No Information available

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|-------------------------------|--------------------------|-------------------------|
| pH | 10.5 - 11.5 | |
| Specific Gravity | 0.998 | |
| Viscosity | < 25 cP @ 25°C | |
| Melting point/freezing point | No Information available | |
| Flash point | Above 200°F | |
| Boiling point / boiling range | 100 °C / 212 ° F Degrees | |

| | |
|----------------------------|--------------------------|
| Evaporation rate | No Information available |
| Flammability (solid, gas) | No data available |
| Flammability Limits in Air | |
| Upper flammability limit: | No Information available |
| Lower flammability limit: | No Information available |
| Vapor pressure | No Information available |
| Vapor density | No Information available |
| Water solubility | Complete |
| Partition coefficient | No Information available |
| Autoignition temperature | No Information available |
| Decomposition temperature | No Information available |

Other Information

| | |
|-----------------|------|
| Density Lbs/Gal | 8.33 |
| VOC Content (%) | 1.15 |

10. STABILITY AND REACTIVITY**Reactivity**

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

| | |
|---------------------|--|
| Inhalation | Avoid breathing vapors or mists. May cause irritation of respiratory tract. |
| Eye contact | Avoid contact with eyes. Contact with eyes may cause irritation. |
| Skin Contact | Avoid contact with skin. Prolonged contact may cause redness and irritation. |
| Ingestion | Do not taste or swallow. May cause gastro intestinal irritation. |

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------------------------------|---|-------------------------|-----------------|
| 2-(2-butoxyethoxy)ethanol 112-34-5 | = 5660 mg/kg (Rat) | = 2700 mg/kg (Rabbit) | - |
| Orange Terpenes 5989-27-5 | = 4400 mg/kg (Rat) = 5200 mg/kg (Rat) = 5300 mg/kg (Rat) | > 5 g/kg (Rabbit) | - |

Information on toxicological effects

Symptoms No Information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No Information available.

Germ cell mutagenicity No Information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|------------------------------|-------|---------|-----|------|
| Orange Terpenes 5989-27-5 | - | Group 3 | - | X |

IARC (International Agency for Research on Cancer)

Group 3 -Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity No Information available.

STOT - single exposure No Information available.

STOT - repeated exposure No Information available.

Aspiration hazard No Information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0.02% of the mixture consists of ingredient(s) of unknown toxicity

12. ECOLOGICAL INFORMATION

Ecotoxicity

0.02% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|---|--|--|---|
| 2-(2-butoxyethoxy)ethanol 112-34-5 | 100: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50 | 1300: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static | 2850: 24 h <i>Daphnia magna</i> mg/L EC50 100: 48 h <i>Daphnia magna</i> mg/L EC50 |
| PROPRIETARY | - | 1.2: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 | 5.3: 48 h <i>Daphnia</i> mg/L LC50 |
| Tetrapotassium Pyrophosphate 7320-34-5 | - | 100: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 | 100: 48 h water flea mg/L EC50 |
| Tetrasodium EDTA 64-02-8 | 1.01: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 | 59.8: 96 h <i>Pimephales promelas</i> mg/L LC50 static 41: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static | 610: 24 h <i>Daphnia magna</i> mg/L EC50 |
| Orange Terpenes 5989-27-5 | - | 0.619 - 0.796: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 35: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 | - |
| Sodium Hydroxide 1310-73-2 | - | 45.4: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static | - |
| Trisodium nitrilotriacetate 5064-31-3 | 560 - 1000: 96 h <i>Chlorella vulgaris</i> mg/L EC50 | 93 - 170: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 252: 96 h <i>Lepomis macrochirus</i> mg/L LC50 560 - 1000: 96 h <i>Oryzias latipes</i> mg/L LC50 semi-static 72 - 133: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 560 - 1000: 96 h <i>Poecilia reticulata</i> mg/L LC50 560 - 1000: 96 h <i>Poecilia reticulata</i> mg/L LC50 semi-static 470: 96 h <i>Pimephales promelas</i> mg/L LC50 static 175 - 225: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 560 - 1000: 96 h <i>Oryzias latipes</i> mg/L LC50 114: 96 h <i>Pimephales promelas</i> mg/L LC50 | 560 - 1000: 48 h <i>Daphnia magna</i> mg/L LC50 |

Persistence and degradability

No Information available.

Bioaccumulation

No Information available.

Other adverse effects

No Information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

| | |
|-------------------------------|---|
| Disposal of wastes | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| Contaminated packaging | Do not reuse container. |

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name | California Hazardous Waste Status |
|------------------------------|-----------------------------------|
| Orange Terpenes 5989-27-5 | Toxic |

14. TRANSPORT INFORMATION

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

DOT Not regulated

TDG Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name | SARA 313 - Threshold Values % |
|--------------------------------------|-------------------------------|
| 2-(2-butoxyethoxy)ethanol - 112-34-5 | 1.0 |

SARA 311/312 Hazard Categories

| | |
|--|----|
| Acute health hazard | No |
| Chronic Health Hazard | No |
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations**California Proposition 65**

This product has been evaluated and does not require warning labeling under California Proposition 65.

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|--|------------|---------------|--------------|
| 2-(2-butoxyethoxy)ethanol 112-34-5 | X | - | X |
| Orange Terpenes 5989-27-5 | X | - | - |
| Sodium Hydroxide 1310-73-2 | X | X | X |
| Trisodium nitrilotriacetate 5064-31-3 | - | X | - |

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION

| | | | | |
|-------------|------------------|----------------|--------------------|------------------------------------|
| NFPA | Health hazards 1 | Flammability 0 | Instability 0 | Physical and Chemical Properties - |
| HMIS | Health hazards 1 | Flammability 0 | Physical hazards 0 | Personal protection B |

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Revision Note

No Information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet