



Tropical UltraGreen Roof Wash

Safety Data Sheet

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

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

1.1. Product identifier

Product form : Mixture

Product name : Tropical UltraGreen Roof Wash Multi Purpose Cleaner

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

TROPICAL ROOFING PRODUCTS

1904 S.W. 31ST Ave.

HALLANDALE, FL 33009 - UNITED STATES

T 954-983-3434

technical@tropicalroofingproducts.com - www.tropicalroofingproducts.com

1.4. Emergency telephone number

Emergency number : 800-424-9300
Chemtrec

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. Label elements

GHS-US labelling

0

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

3.2. Mixture

| Name | Product identifier | % | GHS-US classification |
|-------------------------------|---------------------|---------|-----------------------|
| alcohols, C12-14, ethoxylated | (CAS No) 68439-50-9 | 1 - 10 | Not classified |
| sodium bicarbonate | (CAS No) 144-55-8 | 0.1 - 2 | Not classified |
| edetic acid | (CAS No) 60-00-4 | 0.1 - 2 | Not classified |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

No additional information available

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

No additional information available

5.2. Special hazards arising from the substance or mixture

No additional information available

Tropical Roof Cleaner

Safety Data Sheet

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

5.3. Advice for firefighters

No additional information available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

No additional information available

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No additional information available

7.2. Conditions for safe storage, including any incompatibilities

No additional information available

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Tropical Roof Cleaner | |
|--|----------------|
| ACGIH | Not applicable |
| OSHA | Not applicable |
| alcohols, C12-14, ethoxylated (68439-50-9) | |
| ACGIH | Not applicable |
| OSHA | Not applicable |
| sodium bicarbonate (144-55-8) | |
| ACGIH | Not applicable |
| OSHA | Not applicable |
| edetic acid (60-00-4) | |
| ACGIH | Not applicable |
| OSHA | Not applicable |

8.2. Exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|---|
| Physical state | : Liquid |
| Colour | : Mixture contains one or more component(s) which have the following colour(s): Colourless White Colourless or white |
| Odour | : There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour(s): Characteristic odour Odourless |
| Odour threshold | : No data available |

Tropical Roof Cleaner

Safety Data Sheet

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

| | |
|--|--|
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : Water: Solubility in water of component(s) of the mixture : • alcohols, C12-14, ethoxylated: < 63 mg/l (25 °C) • sodium bicarbonate: 93.4 g/l (20 °C) • edetic acid: 0.05 g/100ml |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| alcohols, C12-14, ethoxylated (68439-50-9) | |
|---|--|
| LD50 oral rat | > 2000 mg/kg bodyweight (Rat; OECD 401: Acute Oral Toxicity; Experimental value) |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight (Rabbit; Read-across; Equivalent or similar to OECD 402) |
| sodium bicarbonate (144-55-8) | |
| LD50 oral rat | > 4000 mg/kg (Rat; FIFRA (40 CFR); Experimental value) |
| edetic acid (60-00-4) | |
| LD50 oral rat | > 2000 mg/kg (Rat) |
| LD50 dermal rabbit | > 5000 mg/kg (Rabbit) |

Skin corrosion/irritation : Not classified

Tropical Roof Cleaner

Safety Data Sheet

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

| | |
|--|------------------|
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : Not classified |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard | : Not classified |

SECTION 12: Ecological information

12.1. Toxicity

| alcohols, C12-14, ethoxylated (68439-50-9) | |
|---|--|
| LC50 fish 1 | 0.876 mg/l (LC50; EU Method C.1; 96 h; Danio rerio; Semi-static system; Fresh water; Experimental value) |
| EC50 Daphnia 1 | 0.53 mg/l (EC50; Other; 48 h; Daphnia magna; Static system; Fresh water; Experimental value) |
| Threshold limit algae 1 | 0.41 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Weight of evidence) |
| Threshold limit algae 2 | 0.31 mg/l (NOEC; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Weight of evidence) |
| edetic acid (60-00-4) | |
| EC50 Daphnia 1 | 480 - 790 mg/l (EC50; 24 h) |
| LC50 fish 2 | 159 mg/l (LC50; 96 h; Lepomis macrochirus) |

12.2. Persistence and degradability

| alcohols, C12-14, ethoxylated (68439-50-9) | |
|---|---|
| Persistence and degradability | Readily biodegradable in water. The surfactant(s) is/are biodegradable. Low potential for mobility in soil. |
| sodium bicarbonate (144-55-8) | |
| Persistence and degradability | Biodegradability: not applicable. No (test)data on mobility of the substance available. |
| ThOD | Not applicable (inorganic) |
| edetic acid (60-00-4) | |
| Persistence and degradability | Not readily biodegradable in water. Ozonation in the air. Photolysis in the air. |
| Biochemical oxygen demand (BOD) | 0.01 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 0.85 g O ₂ /g substance |
| ThOD | 1.09 g O ₂ /g substance |
| BOD (% of ThOD) | 0.0091 |

12.3. Bioaccumulative potential

| alcohols, C12-14, ethoxylated (68439-50-9) | |
|---|--|
| BCF fish 1 | 237 (BCF; 72 h; Pimephales promelas; Flow-through system; Fresh water) |
| Log Pow | 5.6 - 7 (Weight of evidence approach; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 23 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
| sodium bicarbonate (144-55-8) | |
| Log Pow | -4.01 (Estimated value) |
| Bioaccumulative potential | Not bioaccumulative. |
| edetic acid (60-00-4) | |
| BCF fish 1 | 0.8 - 1.9 (BCF) |
| BCF other aquatic organisms 1 | 19 (BCF) |
| Log Pow | -5.01 - -3.34 (Calculated) |

Tropical Roof Cleaner

Safety Data Sheet

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

edetic acid (60-00-4)

| | |
|---------------------------|--|
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
|---------------------------|--|

12.4. Mobility in soil

alcohols, C12-14, ethoxylated (68439-50-9)

| | |
|-----------------|------------------------------------|
| Surface tension | 0.28 N/m (25 °C; 19.6 mg/l) |
| Log Koc | log Koc,3.95; QSAR |
| Ecology - soil | Low risk to terrestrial organisms. |

12.5. Other adverse effects

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

SECTION 14: Transport information

In accordance with DOT
Not regulated for transport

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

alcohols, C12-14, ethoxylated (68439-50-9)

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

| | |
|--------------------------|--|
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e., Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)). |
|--------------------------|--|

sodium bicarbonate (144-55-8)

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

edetic acid (60-00-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Not subject to reporting requirements of the United States SARA Section 313

| | |
|--|---------|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 5000 lb |
|--|---------|

15.2. International regulations

CANADA

No additional information available

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

Tropical Roof Cleaner

Safety Data Sheet

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

15.2.2. National regulations

⋮

15.3. US State regulations

edetic acid (60-00-4)

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

ZLF-PMS 364 CUSTOM TEMPLATE

All information contained in this MSDS is based on current technical data believed to be accurate and reliable. Additions of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since these conditions are outside our control, we furnish this MSDS without any express or implied warranties.