SAFETY DATA SHEET

1. Identification

Product identifier: WATER BASE STAINLESS STEEL MAINTAINER - CL844

Other means of identification
SDS number: RE1000006914

Recommended restrictions
Product use: Cleaner
Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer
Company Name: CLAIRE MANUFACTURING COMPANY
Address: 1000 Integram Dr
Pacific, MO 63069
Telephone: 1-630-543-7600
Fax:

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Physical Hazards
Flammable aerosol Category 1

Health Hazards
Aspiration Hazard Category 1

Environmental Hazards
Acute hazards to the aquatic environment Category 3

Label Elements

Hazard Symbol:

Signal Word: Danger

Hazard Statement: Extremely flammable aerosol. May be fatal if swallowed and enters airways. Harmful to aquatic life.
Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid release to the environment.

Response: IF SWALLOWED: Immediately call a POISON CENTER/doctor Do NOT induce vomiting.

Storage: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Content in percent (%)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>10 - &lt;20%</td>
</tr>
<tr>
<td>Distillates (petroleum),</td>
<td>64742-47-8</td>
<td>10 - &lt;25%</td>
</tr>
<tr>
<td>hydrotreated light</td>
<td></td>
<td></td>
</tr>
<tr>
<td>White mineral oil (petroleum)</td>
<td>8042-47-5</td>
<td>10 - &lt;20%</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Siloxanes and Silicones, di-Me</td>
<td>63148-62-9</td>
<td>1 - &lt;5%</td>
</tr>
</tbody>
</table>

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion: Call a physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Inhalation: Move to fresh air.

Skin Contact: Remove contaminated clothing and wash the skin thoroughly with soap and water after work.

Eye contact: Rinse immediately with plenty of water.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures
General Fire Hazards: Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: Vapors may travel considerable distance to a source of ignition and flash back.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind.

Methods and material for containment and cleaning up: Stop the flow of material, if this is without risk. Absorb with sand or other inert absorbent.

Notification Procedures: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.

Conditions for safe storage, including any incompatibilities: Store locked up. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 1

8. Exposure controls/personal protection

Control Parameters

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane</td>
<td>REL</td>
<td>800 ppm  1,900 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>1,000 ppm</td>
<td>US. ACGIH Threshold Limit Values (03 2018)</td>
</tr>
<tr>
<td>-----</td>
<td>---------</td>
<td>-----------</td>
<td>------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>800 ppm</td>
<td>1,900 mg/m³ US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>100 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>5 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td>STEL</td>
<td>REL</td>
<td>5 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>1,000 ppm</td>
<td>1,800 mg/m³ US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td>TWA</td>
<td>REL</td>
<td>1,000 ppm</td>
<td>1,800 mg/m³ US. OSHA Table Z-1-A (29 CFR 1910.1000) (02 2006)</td>
</tr>
</tbody>
</table>

**Appropriate Engineering Controls**

No data available.

**Individual protection measures, such as personal protective equipment**

**General information:** Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection:** Wear goggles/face shield.

**Skin Protection**

**Hand Protection:** No data available.

**Other:** No data available.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

**Hygiene measures:** When using do not smoke. Observe good industrial hygiene practices.

### 9. Physical and chemical properties

**Appearance**

<table>
<thead>
<tr>
<th><strong>Physical state:</strong></th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form:</strong></td>
<td>Spray Aerosol</td>
</tr>
<tr>
<td><strong>Color:</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Odor:</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Odor threshold:</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>pH:</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Melting point/freezing point:</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range:</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Flash Point:</strong></td>
<td>-104.44 °C</td>
</tr>
<tr>
<td><strong>Evaporation rate:</strong></td>
<td>No data available.</td>
</tr>
</tbody>
</table>
10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous reactions: No data available.

Conditions to avoid: Avoid heat or contamination.

Incompatible Materials: No data available.

Hazardous Decomposition Products: No data available.

11. Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.
Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

**Oral**

**Product:** Not classified for acute toxicity based on available data.

**Specified substance(s):**
- Distillates (petroleum), hydrotreated light: LD 50 (Rat): > 5,000 mg/kg
- White mineral oil (petroleum): LD 50 (Rat): > 5,000 mg/kg

**Dermal**

**Product:** Not classified for acute toxicity based on available data.

**Specified substance(s):**
- Distillates (petroleum), hydrotreated light: LD 50 (Rabbit): > 2,000 mg/kg
- White mineral oil (petroleum): LD 50 (Rabbit): > 2,000 mg/kg

**Inhalation**

**Product:** Not classified for acute toxicity based on available data.

**Specified substance(s):**
- Butane: LC 50: > 100 mg/l
  - LC 50: > 100 mg/l
- Distillates (petroleum), hydrotreated light: LC 50: > 5 mg/l
  - LC 50: > 20 mg/l
- White mineral oil (petroleum): LC 50 (Rat): > 5 mg/l
  - LC 50: > 20 mg/l
- Propane: LC 50: > 100 mg/l
  - LC 50: > 100 mg/l

**Repeated dose toxicity**

**Product:** No data available.

**Specified substance(s):**
- Butane: LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study
  - NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study
- Distillates (petroleum), hydrotreated light: NOAEL (Rat(Female, Male), Inhalation): >= 24 mg/m3 Inhalation Experimental result, Key study
  - NOAEL (Rat(Female, Male), Oral, 70 - 147 d): 750 mg/kg Oral Experimental result, Key study
- White mineral oil (petroleum): NOAEL (Rat(Female, Male), Oral, 90 d): >= 20,000 ppm(m) Oral Experimental result, Key study
  - NOAEL (Rabbit(Female, Male), Dermal): 1,000 mg/kg Dermal Read-across from supporting substance (structural analogue or surrogate), Key study
  - LOAEL (Rat(Female, Male), Inhalation): 210 mg/m3 Inhalation Experimental result, Key study
<table>
<thead>
<tr>
<th>Substance</th>
<th>NOAEL (Rat(Female, Male), Inhalation, &gt;= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study</th>
<th>LOAEL (Rat(Female, Male), Inhalation, &gt;= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>Product: No data available.</td>
<td></td>
</tr>
<tr>
<td>Specified substance(s):</td>
<td>Distillates (petroleum), hydrotreated light in vivo (Rabbit): Not irritant Experimental result, Key study</td>
<td></td>
</tr>
<tr>
<td></td>
<td>White mineral oil (petroleum) in vivo (Rabbit): Not irritant Experimental result, Key study</td>
<td></td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
<td>Product: No data available.</td>
<td></td>
</tr>
<tr>
<td>Specified substance(s):</td>
<td>Distillates (petroleum), hydrotreated light Rabbit, 24 - 72 hrs: Not irritating</td>
<td></td>
</tr>
<tr>
<td></td>
<td>White mineral oil (petroleum) Rabbit, 24 - 72 hrs: Not irritating</td>
<td></td>
</tr>
<tr>
<td>Respiratory or Skin Sensitization</td>
<td>Product: No data available.</td>
<td></td>
</tr>
<tr>
<td>Specified substance(s):</td>
<td>Distillates (petroleum), hydrotreated light Skin sensitization:, in vivo (Guinea pig): Non sensitising</td>
<td></td>
</tr>
<tr>
<td></td>
<td>White mineral oil (petroleum) Skin sensitization:, in vivo (Guinea pig): Non sensitising</td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Product: No data available.</td>
<td></td>
</tr>
<tr>
<td>IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:</td>
<td>No carcinogenic components identified</td>
<td></td>
</tr>
<tr>
<td>US. National Toxicology Program (NTP) Report on Carcinogens:</td>
<td>No carcinogenic components identified</td>
<td></td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>In vitro Product: No data available.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>In vivo Product: No data available.</td>
<td></td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Product: No data available.</td>
<td></td>
</tr>
<tr>
<td>Specific Target Organ Toxicity - Single Exposure</td>
<td>Product: No data available.</td>
<td></td>
</tr>
</tbody>
</table>
**12. Ecological information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

- **Fish**
  - **Product:** No data available.
  - **Specified substance(s):**
    - Butane: LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
    - White mineral oil (petroleum): NOAEL (Oncorhynchus mykiss, 96 h): >= 100 mg/l Experimental result, Key study
    - Propane: LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
  - **Siloxanes and Silicones, di-Me:** LC 50 (Redear sunfish (Lepomis microlophus), 96 h): 26.27 - 56.73 mg/l Mortality
  - **Aquatic Invertebrates**
    - **Product:** No data available.
    - **Specified substance(s):**
      - Butane: LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study
      - White mineral oil (petroleum): NOAEL (Daphnia magna, 48 h): >= 100 mg/l Experimental result, Key study
      - Siloxanes and Silicones, di-Me: LC 50 (Water flea (Daphnia magna), 48 h): 44.5 mg/l Mortality

**Chronic hazards to the aquatic environment:**

- **Fish**
  - **Product:** No data available.
  - **Specified substance(s):**
    - Distillates (petroleum), hydrotreated light: NOAEL (Oncorhynchus mykiss): 0.098 mg/l QSAR QSAR, Key study
    - White mineral oil (petroleum): NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study
  - **Aquatic Invertebrates**
    - **Product:** No data available.
### Specified substance(s):
- White mineral oil (petroleum)

NOAEL (Daphnia magna): \( \geq 1,000 \text{ mg/l} \) QSAR QSAR, Supporting study

**Toxicity to Aquatic Plants**
- **Product:** No data available.

### Persistence and Degradability

#### Biodegradation
- **Product:** No data available.

#### Specified substance(s):
- Butane
  - 100% (385.5 h) Detected in water. Experimental result, Key study
- Distillates (petroleum), hydrotreated light
  - 61% Detected in water. Experimental result, Supporting study
- White mineral oil (petroleum)
  - 31% (28 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Supporting study
- Propane
  - 100% (385.5 h) Detected in water. Experimental result, Key study
  - 50% (3.19 d) Detected in water. QSAR, Weight of Evidence study

#### BOD/COD Ratio
- **Product:** No data available.

**Bioaccumulative potential**

#### Bioconcentration Factor (BCF)
- **Product:** No data available.

#### Partition Coefficient n-octanol / water (log Kow)
- **Product:** No data available.

### Mobility in soil:
- No data available.

### Known or predicted distribution to environmental compartments
- Butane: No data available.
- Distillates (petroleum), hydrotreated light: No data available.
- White mineral oil (petroleum): No data available.
- Propane: No data available.
- Siloxanes and Silicones, di-Me: No data available.

### Other adverse effects:
- Harmful to aquatic organisms.

### 13. Disposal considerations

#### Disposal instructions:
Discharge, treatment, or disposal may be subject to national, state, or local laws.

#### Contaminated Packaging:
- No data available.
14. Transport information

DOT
- UN Number: UN 1950
- UN Proper Shipping Name: Aerosols, flammable
- Transport Hazard Class(es):
  - Class: 2.1
  - Label(s): –
- Packing Group: II
- Marine Pollutant: No
- Environmental Hazards: No
- Marine Pollutant: No
- Special precautions for user: Not regulated.

IMDG
- UN Number: UN 1950
- UN Proper Shipping Name: Aerosols, flammable
- Transport Hazard Class(es):
  - Class: 2
  - Label(s): –
  - EmS No.: –
- Packing Group: –
- Environmental Hazards: No
- Marine Pollutant: No
- Special precautions for user: Not regulated.

IATA
- UN Number: UN 1950
- Proper Shipping Name: Aerosols, flammable
- Transport Hazard Class(es):
  - Class: 2.1
  - Label(s): –
- Packing Group: –
- Environmental Hazards: No
- Marine Pollutant: No
- Special precautions for user: Not regulated.

15. Regulatory information

US Federal Regulations

Restrictions on use: Not known.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Propane</td>
<td>lbs. 100</td>
</tr>
</tbody>
</table>

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
- Fire Hazard

SDS_US - RE1000006914
Immediate (Acute) Health Hazards
Flammable aerosol
Aspiration Hazard

SARA 302 Extremely Hazardous Substance
None present or none present in regulated quantities.

SARA 304 Emergency Release Notification
<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Propane</td>
<td>lbs. 100</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazardous Chemical
<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>White mineral oil (petroleum)</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Propane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Siloxanes and Silicones, di-Me</td>
<td>10000 lbs</td>
</tr>
</tbody>
</table>

SARA 313 (TRI Reporting)
None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
US State Regulations

US. California Proposition 65
No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act
<table>
<thead>
<tr>
<th>Chemical Identity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
</tr>
<tr>
<td>White mineral oil (petroleum)</td>
</tr>
<tr>
<td>Propane</td>
</tr>
</tbody>
</table>

US. Massachusetts RTK - Substance List
No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances
<table>
<thead>
<tr>
<th>Chemical Identity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
</tr>
<tr>
<td>White mineral oil (petroleum)</td>
</tr>
<tr>
<td>Propane</td>
</tr>
</tbody>
</table>

US. Rhode Island RTK
No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol
Not applicable

Stockholm convention
Not applicable

SDS_US - RE1000006914
Rotterdam convention
Not applicable

Kyoto protocol
Not applicable

Inventory Status:
Australia AICS:
On or in compliance with the inventory

Canada DSL Inventory List:
On or in compliance with the inventory

EINECS, ELINCS or NLP:
Not in compliance with the inventory.

Japan (ENCS) List:
Not in compliance with the inventory.

China Inv. Existing Chemical Substances:
On or in compliance with the inventory

Korea Existing Chemicals Inv. (KECI):
On or in compliance with the inventory

Canada NDSL Inventory:
Not in compliance with the inventory.

Philippines PICCS:
On or in compliance with the inventory

US TSCA Inventory:
On or in compliance with the inventory

New Zealand Inventory of Chemicals:
On or in compliance with the inventory

Japan ISHL Listing:
Not in compliance with the inventory.

Japan Pharmacopoeia Listing:
Not in compliance with the inventory.

Mexico INSQ:
Not in compliance with the inventory.

Ontario Inventory:
On or in compliance with the inventory

Taiwan Chemical Substance Inventory:
On or in compliance with the inventory

16. Other information, including date of preparation or last revision

Issue Date: 09/26/2019
Revision Information: No data available.
Version #: 1.0
Further Information: No data available.
Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.