

# SAFETY DATA SHEET

## 1. IDENTIFICATION

Product Name: Steel Brand Contact & Circuit Board Cleaner  
Product Number: V00560  
Company Information: SFRDG  
1000 Abernathy Rd NE, Suite 1700  
Atlanta, GA 30328 United States  
Company Phone: (844) 837-4848  
Emergency Telephone US: (866) 836-8855  
Emergency Telephone Outside US: (952) 852-4646  
Version: 01  
Recommended Use: Cleaner  
Recommended Restrictions: DO NOT USE IN A MANNER INCONSISTENT WITH THE LABEL

## 2. HAZARD IDENTIFICATION

|                  |   |                             |
|------------------|---|-----------------------------|
| Physical Hazards | Flammable aerosols                                  | Category 1                  |
| Health Hazards   | Skin corrosion/irritation                           | Category 2                  |
|                  | Reproductive Toxicity                               | Category 2                  |
|                  | Specific target organ toxicity,<br>Single exposure  | Category 3 narcotic effects |
|                  | Specific target organ toxicity<br>Repeated exposure | Category 2                  |
|                  | Aspiration Hazard                                   | Category 1                  |

Label Elements



Signal Word: Danger  
Hazard Statement: Extremely flammable aerosol. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement:  
Precautions: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe gas. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.  
Response: If swallowed: Immediately call a poison center/doctor. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.  
Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.  
Supplemental Information: None

Steel Brand Contact & Circuit Board Cleaner  
V00560

Hazard(s) not otherwise classified (HNOC):

None Known

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| HAZARDOUS INGREDIENT(S)                 | CAS NUMBER | WEIGHT%  |
|---|------------|----------|
| Naphtha (Petroleum), Hydrotreated Light | 64742-49-0 | 40 – 60  |
| 1,1-Difluoroethane                      | 75-37-6    | 20 – 40  |
| n-Hexane                                | 110-54-3   | 20 – 40  |
| Isopropyl Alcohol                       | 67-63-0    | 2.5 – 10 |
| Cyclohexane                             | 110-82-7   | 0.1 – 1  |

Other components below reportable levels

0.01 – 0.

EXACT PERCENTAGES ARE BEING WITHHELD AS TRADE SECRET INFORMATION

### 4. FIRST-AID MEASURES

|                                  |   |
|----------------------------------|---|
| Inhalation:                      | 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.   |
| Skin Contact:                    | Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.   |
| Eye Contact:                     | Rinse with water. Get medical attention if irritation develops and persists.  |
| Ingestion:                       | Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.   |
| Most Important Symptoms/Effects: | Causes serious eye irritation. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. |
| NOTE TO PHYSICIAN:               | Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.  |

### 5. FIRE FIGHTING MEASURES

|  |  |
|--|--|
| Suitable Extinguishing Media:                                  | Foam. Powder. Carbon Dioxide (CO <sub>2</sub> ).   |
| Unsuitable Extinguishing Media:                                | Do not use water jet as an extinguisher, as this will spread the fire.   |
| Specific Hazards Arising from the chemical:                    | Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.  |
| Special Protective Equipment And Precautions for Firefighters: | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.   |
| Fire-Fighting Equipment/Instructions:                          | In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder tor monitor nozzles, if possible. If not, withdraw and let fire burn out. |
| Specific Methods:  | Cool containers exposed to flames with water until well after the fire is out.   |

### 6. ACCIDENTAL RELEASE MEASURES

|                       |  |
|-----------------------|--|
| Personal Precautions: | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. |
|-----------------------|--|

Steel Brand Contact & Circuit Board Cleaner  
V00560

Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Environmental Precautions:** Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**Clean-Up Methods:** Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

## 7. HANDLING AND STORAGE

**Handling:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Ground and bond containers when transferring material. Do not re-use empty containers. Do not get in eyes, on skin, on clothing. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

**Storage:** Level 3 Aerosol. Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational Exposure Limits

#### US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Component                       | Type | Value                             |
|---------------------------------|------|-----------------------------------|
| Cyclohexane (CAS 110-82-7)      | PEL  | 1050 mg/m <sup>3</sup><br>300 ppm |
| Isopropyl Alcohol (CAS 67-63-0) | PEL  | 980 mg/m <sup>3</sup><br>400 ppm  |
| n-Hexane (CAS 110-54-3)         | PEL  | 1800 mg/m <sup>3</sup><br>500 ppm |

#### US ACGIH Threshold Limit Values

| Component                       | Type        | Value              |
|---------------------------------|-------------|--------------------|
| Cyclohexane (CAS 110-82-7)      | TWA         | 100 ppm            |
| Isopropyl Alcohol (CAS 67-63-0) | STEL<br>TWA | 400 ppm<br>200 ppm |
| n-Hexane (CAS 110-54-3)         | TWA         | 50 ppm             |

#### US NIOSH: Pocket Guide to Chemical Hazards Components

| Component                       | Type | Value                             |
|---------------------------------|------|-----------------------------------|
| Cyclohexane (CAS 110-82-7)      | TWA  | 1050 mg/m <sup>3</sup><br>300 ppm |
| Isopropyl Alcohol (CAS 67-63-0) | STEL | 1225 mg/m <sup>3</sup>            |

|                         |     |   |
|-------------------------|-----|---|
|                         | TWA | 500 ppm<br>980 mg/m <sup>3</sup><br>400 ppm |
| n-Hexane (CAS 110-54-3) | TWA | 180 mg/m <sup>3</sup><br>50 ppm             |

#### US Workplace Environmental Exposure Level (WEEL) Guides

| Component                        | Type | Value                              |
|----------------------------------|------|------------------------------------|
| 1,1-Difluoroethane (CAS 75-37-6) | TWA  | 2700 mg/m <sup>3</sup><br>1000 ppm |

#### Exposure guidelines

| US – California OELs: Skin designation            |                                  |
|---|----------------------------------|
| n-Hexane (CAS 110-54-3)                           | Can be absorbed through the skin |
| US ACGIH Threshold Limit Values: Skin designation |                                  |
| n-Hexane (CAS 110-54-3)                           | Can be absorbed through the skin |

**Engineering Controls:** Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

#### Personal Protective Equipment:

**Eyes:** Wear safety glasses with side shields (or goggles).  
**Hands:** Wear appropriate chemical resistant gloves.  
**Respiratory:** If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.  
**Feet:** Wear appropriate chemical resistant clothing.  
**Body:** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**General Hygiene Considerations:** When using, do not smoke. Always observe good personal hygiene measures such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

|  |  |
|--|--|
| Physical State                               | Liquefied gas.                         |
| Form   | Aerosol.                               |
| Color  | Colorless                              |
| Odor   | Solvent                                |
| Odor Threshold                               | Not Available                          |
| pH   | Not an aqueous solution.               |
| Melting point/Freezing point                 | Not Available                          |
| Initial boiling point and boiling range      | Not Available                          |
| Flash Point                                  | -156°F (-104.4°C) Propellant estimated |
| Evaporation Rate                             | Not Available                          |
| Flammability (solid, gas)                    | Not Available                          |
| Upper/Lower flammability or explosive limits |  |
| Flammability Limit – Lower (%)               | Not Available                          |
| Flammability Limit – Upper (%)               | Not Available                          |
| Explosive Limit – Lower (%)                  | Not Available                          |
| Explosive Limit – Upper (%)                  | Not Available                          |
| Vapor Pressure                               | 40 – 50 psig @70°F                     |
| Vapor Density                                | Not Available                          |
| Relative Density                             | Not Available                          |
| Solubility (Water)                           | Not Available                          |

Steel Brand Contact & Circuit Board Cleaner  
V00560

|                           |               |
|---------------------------|---------------|
| Partition Coefficient     | Not Available |
| Auto-Ignition Temperature | Not Available |
| Decomposition Temperature | Not Available |
| Viscosity                 | Not Available |
| Specific Gravity          | 0.6832        |

## 10. STABILITY AND REACTIVITY

|                                    |  |
|------------------------------------|--|
| Chemical Stability                 | Material is stable under normal conditions.  |
| Reactivity                         | The product is stable and non-reactive under normal conditions of use, storage and transport.    |
| Possibility of Hazardous Reactions | Hazardous polymerization does not occur.   |
| Conditions to Avoid                | Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials. |
| Incompatible Materials             | Acids. Strong oxidizing agents. Isocyanates. Chlorine.   |
| Hazardous Decomposition Products   | No hazardous decomposition products are known.   |

## 11. TOXICOLOGICAL INFORMATION

|   |  |
|---|--|
| Information of Routes of Exposure:        | No LC50/LD50 Test Data on Mixture Available  |
| Acute Effects/Symptoms:                   |  |
| Eyes:                                     | Direct contact with eyes may cause temporary irritation.   |
| Skin:                                     | Causes skin irritation.  |
| Ingestion:                                | Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung edema or pneumonia. |
| Inhalation:                               | May cause drowsiness and dizziness. Headache. Nausea, vomiting. Narcotic effects. Prolonged inhalation may be harmful.   |
| Carcinogens:                              | Not classifiable as to carcinogenicity to humans   |
| Germ Cell Mutagenicity:                   | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.   |
| Respiratory Sensitizer:                   | This product is not expected to cause respiratory sensitization.   |
| Skin Sensitizer:                          | This product is not expected to cause skin sensitization.  |
| Reproductive Toxicity:                    | Suspected of damaging the unborn child.  |
| Specific Target Organs (Single/Repeated): | May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure (Respiratory system, skin, central nervous system, eyes, peripheral nervous system).  |
| Aspiration Hazard:                        | May be fatal if swallowed and enters airways.  |

## 12. ECOLOGICAL INFORMATION

|                            |                                    |
|----------------------------|------------------------------------|
| Ecotoxicity/Chemical Fate: | Not Test Data on Mixture Available |
|----------------------------|------------------------------------|

## 13. DISPOSAL CONSIDERATION

|                  |   |
|------------------|---|
| Disposal Method: | Dispose of contents in accordance with all federal, state, and local applicable laws and regulations. Consult state and local authorities for restrictions on disposal of chemical waste. Manage chemical wastes through an approved waste treatment facility. Pressurized container: Do not pierce or burn, even after use. Do not incinerate. When contents are depleted continue to depress button until all gas is expelled. Aerosol cylinder is not refillable. Give to a disposal service equipped to safely dispose of pressurized containers. Please recycle packaging whenever possible. |
|------------------|---|

## 14. TRANSPORTATION INFORMATION

|              |   |
|--------------|---|
| DOT/IMDG/TDG | UN1950, Aerosols, flammable, 2.1, LTD. QTY. |
|--------------|---|

Steel Brand Contact & Circuit Board Cleaner  
V00560



California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING:  
This product contains a chemical(s) known to the state of California to cause birth defects or other reproductive harm.

## 16. OTHER INFORMATION

Issue Date: 03-30-2016

Version: 01

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.