# SAFETY DATA SHEET

## 1. Product Identification

Wayne Concept
5005 Speedway Drive
Fort Wayne, IN 46825
(260)482-8615

**Product:** **BOSS CFS**
**SDS#:**
**CAS:** Mixture
**Recommended use:** Water rinse able solvent degreaser
**Restrictions:** Do not store or use near heat/sparks/open flames.
**Created:** July 6, 2016
**Revised:** June 11, 2019
**Emergency phone:** INFOTRAC (800)535-5053

## 2. Hazards Identification

**Appearance:** Clear orange liquid
**Odor:** Citrus odor
**Target organs:** None
**Symbol(s):**

**GHS Classifications:**
Acute Toxicity(oral); Category 4
Acute Toxicity (inhalation); Cat. 4
Acute Toxicity(dermal); Cat. 3
Skin Damage/Irritation; Cat. 3
Serious Eye Damage/Irritation; Cat. 2
Hazardous to Aquatic Environment; Acute Cat. 2
Hazardous to Aquatic Environment; Long term Cat. 2

**Signal Word:** **WARNING**
**Hazard Statement(s):** Combustible liquid and vapor. Containspetroleum distillates. Harmful if swallowed. May cause reddening and irritation of eyes. Inhalation of mist/vapors/spray may be irritating to mucous membranes of the nose, throat and lungs. High concentrations may cause headache, dizziness, nausea and fatigue. Ingestion may cause nausea, vomiting and diarrhea.

**Other hazard(s):** Repeated exposure may cause dryness of the skin

**Precaution(s):** Keep away from heat/sparks/open flames/hot surfaces – no smoking. Do not breathe mist/vapors/spray. Use in a well ventilated area. Wear protective gloves/protective clothing.

Do not ingest. IF SWALLOWED: Do NOT induce vomiting. Rinse mouth out with water. Get immediate medical attention.

**Disposal:** Keep out of waterways. Check local, national, and international regulations for proper disposal

## 3. Composition/Information on Ingredients

**Hazardous Ingredients:**

| *Component* | *CAS No.* | *Conc (wt%)* |
|---|---|---|
| Benzyl Alcohol | 100-51-6 | 20 – 30 |
| Citrus terpenes | 5989-27-5 | 10 – 20 |
| Distillates, petroleum, hydrotreated light | 64742-47-8 | 40 – 50 |
| Ethylene glycol monobutyl ether | 111-76-2 | 5 – 10 |
| Nonylphenol ethoxylates | 9016-45-9 | 1 – 5 |

## 4. First Aid Measures

**Eyes** Remove contact lenses, if worn. Rinse with running water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention if irritation persists.

**Skin** Remove affected clothing and launder before reuse. Wash affected area for at least 15 minutes with soap and running water. Seek medical attention if persistent irritation occurs. Prolonged or repeated exposure may cause defatting of the skin – symptoms include redness,dryness, cracking

**Inhalation** Remove exposed person to fresh air immediately. Restore or assist breathing, if necessary. Get medical attention if breathing is slow ordifficult.

**Ingestion** If swallowed DO NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to minimize the chance of aspiration. If fever, shortness of breath, congestion, coughing or wheezing occurs, get immediate medical attention.

## 5. Fire Fighting Measures

**NFPA (estimated):** **Health – 2 Fire – 2 Instability – 0**

**Flash Point** Around 115°F (TCC)

**Extinguishing Media** Foam, water or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not discharge extinguishing waters into the aquatic environment.

**Unsuitable Media** Do not use water jet, this will spread the fire.

**Firefighting Procedures:** Keep nearby containers cool with water spray.

**Unusual Hazards** Material will flow over water pools and may cause fire to spread.
Incomplete combustion can produce carbon monoxide.

## 6. Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:** Keep unnecessary personnel away. Wear appropriate personal protective equipment for emergency. Ventilate if released in a confined area.
Eliminate sources of ignition if it is safe to do so.

**Environmental precautions:** Avoid release to the environment. Prevent from entering into soil, ditches, sewers, waterways or groundwater

**Methods for removal:** Use an explosion-proof pump to remove bulk liquid. Residual liquid can be absorbed on inert material or evaporated with adequate ventilation. **Use only non-sparking tools**.

## 7. Handling and Storage

**Max. Handling Temp:** Do not store or handle at elevated temperatures. See Section 5 for flammability and Section 10 for chemical stability

**Procedures:** Use only in a well ventilated area. Avoid breathing vapors. Keep containers closed when not in use. Use appropriate containment to avoid environmental contamination. Vapors are heavier than air and will tend to accumulate in low areas. Avoid sources of ignition and use non-sparking tools. Avoid use in confined areas without adequate ventilation. Areas of inadequate ventilation could contain concentrations high enough to cause eye irritation, headaches, or nausea. Avoid breathing dust, fume, gas, mist, vapors, or spray. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty container contains product residue which may exhibit hazards of the product. Do no weld, heat,

or pressurize empty containers. Do not re-use containers. Dispose of packaging or containers in accordance with local, regional, national, and international regulations. Store away from strong oxidizers

**Max Store Temp:** Do not store or handle at elevated temperatures.

**Unsuitable Materials:** Avoid prolonged contact with natural, butyl or nitrile rubbers.

**Other:** Store in a diked area and prevent discharge into the aquatic environment

## 8. Exposure Controls/Personal Protection

**Exposure Limits**
**US**
**Guidelines by component**

*Petroleum distillate, hydrotreated light (CAS # 64742-47-8)*
PEL/TWA: 100 mg/m$^3$

*Citrus terpenes (CAS # 5989-27-5)*
8h TWA: 30 ppm (AIHA)

*Ethylene glycol monobutyl ether (CAS# 111-76-2)*
TWA: 20 ppm (ACGIH)

*Nonylphenol ethoxylate (CAS# 9016-45-9)*
TWA: 10 mg/m³ (US WEEL)

**Other Exposure Limits:** Not determined

**Engineering Controls:** Use in a well ventilated area. Local and general ventilation should keep methanol vapor concentration below permissible limits. Where exposure potential exceeds recommended limits, use a NIOSH/OSHA approved supplied air respirator as recommended. Vapors are heavier than air and will tend to accumulate in low-lying areas.

**Personal Protective Equipment**

**Respiratory:** Use a positive-pressure supplied-air NIOSH approved respirator when used in confined spaces or where engineering controls are not sufficient to limit exposure to below recommended limits

**Eye:** Face shield or chemical splash goggles when splashing may occur. If possible, remove contact lenses before handling

**Gloves:** Use neoprene or viton gloves. Nitrile gloves can be used – but prolonged contact may cause the rubber to degrade

**Clothing:** Use chemical resistant pants and jackets

| | |
|---|---|
| **Other:** | Locate the nearest eyewash station and safety shower before handling this product. Limit exposure whenever possible. Consider flammability and always use non-sparking tools. |
| **Hygiene:** | Wash thoroughly after handling this product. |

## 9. Physical and Chemical Properties

| | |
|---|---|
| **Appearance** | Clear orange liquid |
| **Odor** | Citrus odor |
| **Odor threshold** | Not determined |
| **pH** | Not determined |
| **Melting Point** | Not determined |
| **Initial Boiling Pt** | Not determined |
| **Flash Point** | 115°F |
| **Evaporation Rate** | Slower than water |
| **Upper Flammable Lm** | Not determined |
| **Lower Flammable Lm** | Not determined |
| **Explosive Data** | Vapors of this product may form explosive mixtures with air |
| **Vapor Pressure** | Not determined |
| **Vapor Density** | >1 (where air = 1) |
| **Specific Gravity** | 0.857 ±0.005 |
| **Density** | 7.13 ±0.05 |
| **Solubility** | Emulsifiable |
| **$K_{ow}$** | Not determined |
| **Viscosity** | Not determined |
| **Autoignition Point** | Not determined |
| **Decomposition Temp** | Not determined |

## 10.Stability and Reactivity

| | |
|---|---|
| **Stability** | Material is normally stable at ambient temperatures and pressures. Has low vapor pressure – vapors may form explosive mixtures with air! |
| **Decomposition Temp** | Not determined. Stable under normal conditions of use |
| **Incompatibility** | Keep away from strong oxidizers. Contact with these materials may cause violent or explosive reactions. |
| **Polymerization** | Will not occur |
| **Thermal Decomposition** | Combustion products highly dependent on conditions. Produces carbon oxides. Lower oxygen environments are likely to produce more harmful particulate carbon, polyaromatic heterocycles, carbon monoxide and other organic compounds. |
| **Conditions to Avoid** | Flammable liquid and vapor – keep away from strong oxidizers as well as heat/sparks/open flames/hot surfaces. |

## 11. Toxicological Information

**- Acute Exposure –**

**Eye Irritation** Irritating to the eyes

**Skin Irritation** Mild skin irritant. Repeated exposure may cause dermatitis, drying, cracking, and defatting of the skin.

**Respiratory Irritation** May cause chemical pneumonitis and severe irritation if material enters airways. May be fatal

**Aspiration Hazard** This product has a very low viscosity and may be fatal if aspirated into the airways. Do NOT induce vomiting, as this increases risk of aspiration. Aspiration may be fatal.

*Hydrotreated Light Petroleum Distillate*

**Dermal Toxicity** May be harmful.

**Inhalation Toxicity** Prolonged inhalation may be harmful.

**Oral Toxicity** Expected to be a low ingestion hazard.

*Citrus tepenes*

**Inhalation Toxicity** RD50 >1g/kg, mouse

**Oral Toxicity** LD50 >5g/kg, rabbit

**Chronic effects** Prolonged or repeated exposure can cause frying or dermatitis or skin. Improper storage and handling may lead to the formation of a possible skin sensitizer.

*Ethylene glycol monobutyl ether*

**Oral** LD50 1.2 g/kg, guinea pig

**Inhalation** LC50 >633 ppm, guinea pig

**Dermal** LD50 400-500 mg/kg, rabbit

*Nonylphenol ethoxylate*

**Oral** LD50 960-3,980 mg/kg, rat

**Dermal** LD50 >2000 mg/kg, rabbit

*Benzyl Alcohol*

**Oral** LD50 1,230 mg/kg, rat

**Dermal** LD50 >2000 mg/kg, rabbit

**- Chronic Exposure –**

**Chronic Toxicity** This product may cause dryness or defatting of the skin, dermatitis, or may aggravate existing skin conditions.

**Carcinogenicity** This product and its components are NOT listed by the IARC, NTP, ACGIH, or OSHA as carcinogens. An increased skin tumor incidence has been observed in experimental animals; the significance of this finding to man is unknown (Stoddard Solvent IIC)

**Mutagenicity** Available information does not suggest that this product is a germ cell mutagen

**Reproductive Toxicity** Available information does not suggest that this product is a reproductive toxin.

**Teratogenicity** Available information does not suggest that this product is a teratogen

**- Additional Information –**

**Target organ toxicity** No known target organ effects in humans. Caused kidney effects in male rats which are not considered relevant in humans

## 12. Ecological Information

**- Environmental Toxicity –**

***Hydrotreated Light Petroleum distilate***

Freshwater Fish LC50 2.9 mg/L (freshwater trout)

***Citrus terpenes***

There is no information available at this time for this product. However, a spill may produce significant toxicity to aquatic organisms and ecosystems. Some studies have shown that certain bacteria and fungi have the ability to degrade terpenes, decreasing the toxicity to fish. When spilled, this product may act as an oil, causing a film, sheen, emulsion, or sludge at or beneath the surface of a body of water.

**Nonylphenol Ethoxylate**

| | |
|---|---|
| Fish | 6.2 mg/l, 96 hr (fathead minnow) |
| Invertebrates | 9.3-21.4 mg/l, 48 hr (water flea) |

**- Environmental Fate –**

| | |
|---|---|
| **Biodegradation** | Not expected to be readily biodegradable. Oxidizes rapidly by photo-chemical reactions in the air. |
| **Bioaccumulation** | Adheres to soil – has the potential to bioaccumulate |
| **Soil Mobility** | Adsorbs to soil and has low mobility under normal conditions |
| **Other Effects** | Floats on water and produces a sheen – very mobile in the aquatic environment |

## 13. Disposal Considerations

**Disposal Considerations**

All disposal practices must be in accordance with local, regional, national, and international regulations. Store material for disposal as indicated in Section 7. Disposal by controlled incineration or recycling may be acceptable – review applicable regulations or regulatory bodies before making disposal decisions.

**Contaminated Containers or Packaging**

Empty containers are likely to contain flammable vapors or explosive mixtures of vapor and air. Do NOT weld, cut, or grind empty containers. Send to reconditioner or metal reclaimer if possible. Dispose of in accordance with local, regional, national, and international regulations

## 14. Transportation Information

**DOT/IMDG/IATA Hazard Classification:** Non-Hazardous,not regulated (in non-bulk packaging)

**Hazardous:** N

**Shipping Name:** LIQUID CLEANING COMPOUNDS

**Freight Class:** 55

## 15.Regulatory Information

**- Global Chemical Inventories/Regulations –**

| | |
|---|---|
| **USA** | All components of this material are on the USTSCA |

**SARA Ext. Haz. Subst.** No chemicals in this product are listed on the SARA 302 Extremely Hazardous Substances list.

**SARA 311/312** *Yes (Petroleum distillate hydrotreated light 64742-47-8, Ethylene glycol monobutyl ether 111-76-2, Nonylphenol ethoxylate 9016-45-9, Citrus Terpenes 5989-27-5)*

**SARA Sect. 313** Ethylene glycol monobutyl ether 111-76-2, 10%

**CERCLA Haz. Sub.** Benzyl Alcohol – Fire Hazard, Acute Health Hazard
Citrus Terpenes – Acute Health Hazard

**- State Regulations –**

**CA Prop 65** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

| ***Right to Know Component*** | ***Right to Know States*** |
|---|---|
| Petroleum Distillate light (CAS # 64742- 47-8) | NJ, PA, MA, RI, CA |
| Ethylene glycol monobutyl ether | NJ, MA, PA, CA (Prop 65) |

## 16. Other Information

**HMIS Ratings: (Scale 0-4)**

**Health:** 2 **Flammability:** 2 **Reactivity:** 0

**Personal Protection:** B

Revision updates may be in many sections and the SDS should be read in its entirety. Prepared according to the UN Globally Harmonized System for the Classification and Labeling of Chemicals (GHS) by Wayne Concept.

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