# Safety Data Sheet in accordance with Regulation (EU) No. 453/2010 and OSHA 29 CFR 1910.1200 HCS

## MONROE NC SOL HD CF

### *1. Identification of the Substance/ Mixture and of the Company/ Undertaking*

**Product Name:** MONROE NC SOL HD CF *(Formerly marketed as NOCOSOL HD CF)*

**Preparation Date:** May 7, 2015 **Revision Date:** April 4, 2016

**Recommended Use:** Metalworking Fluid

**Supplier:** MONROE FLUID TECHNOLOGY

36 Draffin Road,
Hilton, NY 14468

**Phone: 800-828-6351 585-392-3434**
**EMERGENCY NUMBERS: CHEMTREC (800) 424-9300 Monroe Fluid Technology (800) 828-6351**

### *2. Hazard Identification*

**GHS Classification:** Skin Sensitizer: Category 1
H317 – May cause an allergic skin reaction.

**GHS Labeling:**
Symbols:



Signal Word: Warning

Precautionary Statements:
P261: Avoid breathing fumes
P272: Contaminated work clothing should not be allowed out of the workplace
P280: Wear protective gloves/ protective clothing/ eye protection
P302 + P352: If on skin, wash with soap and water
P333 + P313: If skin irritation or rash occurs, seek medical attention immediately
P363: Wash contaminated clothing before reuse
P501: Dispose of contents/ container to an approved waste disposal plant

**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] and OSHA 29 CFR 1910.1200 HCS:** Skin Sensitizer: Category 1

**Other Hazards Not Classified:** No significant hazards

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3. ***Composition/Information on Hazardous Ingredients***

Mixture: Highly refined mineral oil, emulsifiers and additives.

| Chemical Name | CAS Number | Concentration, Wt. % |
|---|---|---|
| Severely Hydrotreated Heavy Naphthenic Distillate | 64742-52-5 | Trade secret |
| 4- (2-Nitrobutyl) Morpholine | 2224-44-4 | Trade secret |
| Triethanolamine | 102-71-6 | Trade secret |

***4. First Aid***

**Inhalation:** Avoid breathing fumes. If inhaled, move to fresh air. If victim has stopped breathing give artificial respiration, preferably, mouth to mouth. Contact a physician immediately.

**Eyes:** Flush with large amounts of cold water for at least 15 minutes. Do not let victim rub eyes. If irritation develops, contact a physician immediately.

**Ingestion:** Do not induce vomiting. Contact a physician immediately.

**Skin:** Wear protective gloves/ protective clothing/ eye protection. If on skin, wash with soap and water. If skin irritation occurs, seek medical attention immediately. Wash contaminated clothing before reuse

***5. Fire-fighting Measures***

**Suitable extinguishing media:** Carbon dioxide, Dry chemical, Alcohol foam

**Specific hazards:** None

**Specific protective equipment and precautions for fire fighters:** Use dry chemical, alcohol foam or carbon dioxide. Water may be ineffective but should be used to keep fire exposed containers cool. If a spill or a leak has not ignited, use water spray to disperse the vapors. Water spray may be used to flush spills away from fire.
Perform only those firefighting procedures for which you have been trained. Firefighters should wear self contained breathing apparatus in the positive pressure mode with a full face piece where there is a possibility of exposure to smoke, fumes or hazardous decomposition products.

Unusual Fire and Explosion Hazards: None

**Flammability Properties:**

Flash point: 355ºF
Method Used: COC

***6. Accidental Release Measures***

**Personal precautions, protective equipment and emergency procedures:**
Use personal protective equipment. Ensure adequate ventilation.

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**Environmental Precautions:** Do not allow spilled material to enter sewers or streams.
If spills are likely to enter any drain, waterway or groundwater, contact the appropriate governmental agency.

**Methods and materials for containment:** Add dry material to absorb (if large spill, dike to contain). Using recommended protective equipment, pick up bulk of spill and containerize for recovery or disposal. Flush area with water to remove residues.

### *7. Handling and Storage*

**Precautions for safe handling:** Read label for instructions in use of product. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source).

**Conditions for safe storage:** Store in closed containers in a cool, dry well ventilated area not exposed to sunlight. Maintain closure of bungs. Store at temperatures between 5ºC and 30ºC. Do not reuse container. Avoid container damage while storing.
Empty containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, bronze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity or other sources of ignition; they may explode and cause injury or death. Do not attempt to refill containers since residue is difficult to remove. Empty drums should be completely drained, properly bunged and returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner in accordance with governmental regulations.

### *8. Exposure Controls/Personal Protection*

**Control parameters:**

**Exposure Guidelines:**
Severely Hydrotreated Heavy Naphthenic Distillate: TLV: 5 mg/m$^3$ of oil mist
Triethanolamine: ACGIH TLV: 5 mg/m$^3$

**Appropriate engineering controls:** Proper protection and controls is dependent upon the potential exposure conditions. No special requirements are needed under ordinary conditions where adequate ventilation is available.

**Individual protective measures:**

*Respiratory protection:* General room ventilation should be satisfactory. Exhaust ventilation may be necessary if misting is generated.

*Eye protection:* If there is a possibility that the product can be splashed into the eyes, then safety glasses with side shields or chemical goggles are required. Contact lenses should also not be worn if the product could be splashed into the eyes.

*Hand protection:* Chemically resistant gloves are required.

*Body protection:* If exposure to the skin is anticipated, wear impervious, protective clothing including rubber safety shoes to avoid skin contact.

### *9. Physical and Chemical Properties*

**Appearance**: Blue Liquid
**Odor:** Bland Odor
**Odor Threshold:** N/A
**pH @20:1 in water:** 9.0 ± 0.3
**Melting point/freezing point:** N/D
**Initial boiling point and boiling range:** >105ºC
**Flash Point (COC):** 355°F
**Evaporation Rate:** N/D
**Flammability (Solid, Gas):** N/D
**Upper/lower flammability or explosive limits:** UEL: N/D LEL: N/D
**Vapor pressure:** N/D
**Vapor density:** N/D
**Relative density:** 0.945 @ 15.5ºC
**Partition coefficient n-octanol/water:** N/A
**Autoignition Temperature:** No data available
**Decomposition Temperature:** N/A
**Viscosity:** N/D

### *10. Stability and Reactivity*

**Chemical stability:** Stable at normal conditions
**Possibility of hazardous reactions:** Not expected and hazardous polymerization will not occur
**Conditions to avoid:** Strong oxidizers.
**Incompatible Materials:** None known.
**Hazardous decomposition products:** Oxides of carbon, nitrogen and sulfur

### *11. Toxicological Information*

**Inhalation:** Inhalation of vapors or mist may be irritating to respiratory passages

**Skin:** May cause an allergic reaction

**Eyes:** Contact may cause irritation

**Oral:** Small amounts ingested incidental to normal handling are not likely to cause injury; larger quantities ingested may cause injury.

**Systemic (other target organ) Effects:** None known

**Teratology (birth defects):** None known

**Reproductive Effects:** None known

**Mutagenicity (effects on genetic material):** None known

**Carcinogenicity:** IARC: NO NTP: No OSHA: No

### *12. Ecological Information*

**Persistence and degradability:** Ecological data is not available.

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### *13. Disposal Considerations*

**Disposal methods:** Dispose of in accordance with federal, state and local regulations

**Precaution for disposal:** All recovered material should be packaged, labeled, transported and disposed or reclaimed in conformance with Good Engineering Practices. Comply with all applicable governmental regulations. Avoid land filling of liquids. Reclaim where possible.

### *14. Transport Information*

**US DOT:** Not regulated by the US DOT
**RID/ADR:** Not regulated by RID/ADR
**IMO:** Not regulated by IMO
**IATA:** Not regulated by IATA

### *15. Regulatory Information*

**US TSCA:** In compliance with the inventory
**Canada DSL:** In compliance with the inventory
**Cal. Prop. 65** This product does not intentionally contain any chemicals known by the State of California to cause cancer and/or birth defects. Moreover, we do not routinely analyze its products for impurities which may be such chemicals.
**SARA (313) TOXIC RELEASE INVENTORY:** This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.
**VOC Content (SCAQMD ASTM 1868-10) :** <100 g/l concentrate; <10 g/l at maximum recommended dilution of 10%.

### *16. Other Information*

**Special Precautions to be Taken in Handling and Storage:**

Normal precautions common to good manufacturing practices should be followed in handling and storing. Store away from food. Wash hands before eating, drinking or smoking. Use as directed.

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