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Revision Number 4

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Product name S-500 CF

Other means of identification

Recommended use of the chemical and restrictions on use

Material Uses Coolant.
Uses advised against Verify Applications

Details of the supplier of the safety data sheet

Manufacturer

Hangsterfer's Laboratories, Inc.
175 Ogden Road
Mantua, NJ 08051
Phone +1 856-468-0216
Fax +1 856-468-0200
Website: www.hangsterfers.com

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300 in US, Canutec 1-613-996-6666 in Canada. For international assistance, dial Chemtrec US number 1-703-527-3887.

2. Hazards Identification

Prepared according to OSHA Hazard Communication Standard (29 CFR 1910.1200) and ANSI MSDS Standard (Z400.1). Complies with Canadian Workplace Hazardous Materials Information System (WHMIS) standards.

Classification of the substance or mixture

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Hazard statements

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Appearance Clear/Hazy

Physical state Liquid

Odor Mild

Other Information

Not applicable

3. Composition/information on Ingredients**Substance****Chemical Family** Soluble Oil.

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First Aid Measures**Description of first aid measures**

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician if necessary. If eye irritation persists: Get medical advice/attention.

Skin contact Wash skin with soap and water. Wash contaminated clothing before reuse.

Inhalation Remove to fresh air.

Ingestion Do NOT induce vomiting. Drink plenty of water. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed**Symptoms** No unusual hazard. See Section 11 for additional Toxicological Information.**Indication of any immediate medical attention and special treatment needed****Notes to Physician** Treat symptomatically.**5. Fire-Fighting Measures**

Suitable extinguishing media Water spray or fog is preferred; if water not available use dry chemical, CO2 or regular foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical May be ignited by heat, sparks or flames. Keep product and empty container away from heat and sources of ignition.

Hazardous combustion products Carbon oxides.

Explosion data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

Protective equipment and precautions for firefighters Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

6. Accidental Release Measures**Personal precautions, protective equipment and emergency procedures**

Personal precautions	Remove all sources of ignition. Avoid breathing dust/fume/gas/mist/vapors/spray. Use nitrile or neoprene gloves if necessary. Wear boots, gloves and protective suit when handling large spills. Ensure adequate ventilation. If personal exposure levels cannot be maintained below accepted exposure limits, EN 529 approved respiratory protection should be worn. A combination organic vapor and high efficiency filter cartridge is recommended.
Other Information	Report spills as required to the appropriate authorities.
<u>Environmental precautions</u>	
Environmental precautions	No unusual hazard. See Section 12 for additional Ecological Information.
<u>Methods and material for containment and cleaning up</u>	
Methods for containment	Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills. Take all appropriate steps to avoid contamination of ground water.
Methods for Clean-up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take all appropriate steps to avoid contamination of ground water.

7. Handling and Storage

Precautions for safe handling

Advice on safe handling Avoid contact with eyes. Keep container in a well-ventilated place. Avoid breathing dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep away from direct sunlight. Keep away from heat and sources of ignition.

Incompatible materials Acids. Oxidizing agents.

8. Exposure Controls/Personal Protection

Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Showers, eyewash stations, and ventilation systems. Use in well ventilated area. If user operations generate an oil mist, use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below the recommended mineral oil mist exposure limits (ACGIH TLV TWA: 5 mg/m³; ACGIH TLV STEL: 10 mg/m³; OSHA PEL TWA: 5 mg/m³).

Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses with side-shields.

Skin and Body Protection Long sleeved clothing. Use protective gloves and clothing if contact with product is likely.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Environmental exposure controls No unusual hazard.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear/Hazy
Odor	Mild
Color	green
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks - Methods</u>
pH	9.0 - 9.4	
Melting point / freezing point	0° C / 32° F	
Boiling point / boiling range	143 °C / 289 °F	
Flash point	162 °C / 324 °F	Cleveland Open Cup
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	7	
Lower flammability limit:	1	
Vapor pressure	No information available	
Vapor density	> 5	
Specific gravity	0.93 - 0.95	
Water solubility	Soluble in water	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No unusual hazard	
Kinematic viscosity	34 - 40 cSt @ 40°C / 159 -188 SUS @ 100°F	
Dynamic viscosity	No information available	
VOC Content (%)	Request additional information	

10. Stability and Reactivity

Reactivity No unusual hazard.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials Acids. Oxidizing agents.

Hazardous decomposition products Carbon oxides.

11. Toxicological Information

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known information

Inhalation No unusual hazard.

Eye contact	No unusual hazard.
Skin contact	No unusual hazard.
Ingestion	No unusual hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity
No information available

Oral LD50 >15000 mg/kg (rat, predicted based on laboratory data).

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation OECD 404 - Non-irritating and non-corrosive (rabbit).

Serious eye damage/eye irritation No unusual hazard.

Irritation No unusual hazard.

Sensitization No known effect.

Mutagenic Effects No known effect.

Carcinogenicity No known effect.

Reproductive effects No known effect.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Chronic toxicity No known effect based on information supplied.
Aspiration Hazard No unusual hazard.

12. Ecological Information

Ecotoxicity

Persistence/Degradability Inherently biodegradable.

Bioaccumulation No unusual hazard.

Other adverse effects No information available

13. Disposal Considerations

Waste treatment methods

Waste from residues/unused products Dispose of in accordance with federal, state and local regulations.

Contaminated packaging Waste code 15 01 10 may apply to empty containers. Empty containers should be taken for local recycling, recovery or waste disposal.

14. Transport Information

DOT Not regulated

TDG
Not regulated

IMDG
Not regulated

IATA
Not regulated

15. Regulatory Information**International Inventories**

TSCA	Complies.
DSL/NDSL	Complies.
EINECS/ELINCS	Complies.
ENCS	Complies.
IECSC	Complies.
KECL	Complies.
PICCS	Complies.
AICS	Complies.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

US State Regulations

The table below lists any regulatory or inventory listing information found for ingredients of this product which are considered hazardous. All other components are either listed on the TSCA inventory or are exempt from listing. See Section 16 for explanation of column headings.

U.S. EPA Label information

EPA Pesticide registration number Not applicable

16. Other Information

<u>NFPA</u>	Health hazards 0	Flammability 1	Instability 0	Physical and chemical properties - Personal Protection SECTION 8: Exposure controls/personal protection
<u>HMIS</u>	Health hazards 0	Flammability 1	Physical hazards 0	

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend SECTION 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Ceiling Limit Value	*	Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGl(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

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Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet