



January 1, 2025

TSC5000

SEMI-SYNTHETIC MACHINING FLUID

Application

- TSC5000 is designed for all machining applications. It has been engineered to machine aluminum alloys, cast iron and tool steels. It has the lubricity of soluble oil and the cleanliness of a semi-synthetic coolant. TSC5000 is best suited to replace soluble oils and heavy duty semi-synthetic machining coolants.

Features

- Excellent choice for one fluid machine shops
- Provides a thin film of corrosion protection is easily rinsed off with water.
- Biostable coolant maximizes tool and sump life
- Rejects tramp oils and runs clean
- Stable in hard water
- Low foaming
- Does not contain Nitrites or DEA (Diethanol Amine)

Typical Properties

Appearance: 5% dilution	Opaque White
Solubility in water:	100%
pH at a typical 5% dilution:	9.2
Refractive Index at a typical 5% dilution:	4.7
Refractometer Multiplier:	1.1

To determine the approximate concentration of the coolant, multiply the scale reading on the Refractometer by the Refractive Multiplier. You must ensure that the Refractometer is calibrated to 0.0 with water and that most of the tramp oil in the sample has been removed.

The information contained here represents typical product characteristics. Improvements to the formulation or normal variations in manufacturing may cause variations in the above data. This data is not intended to represent any guarantee or warranty with the intended use of the product.

For additional information regarding TSC5000 please refer to its MSDS or contact our technical support staff at 877-737-0141.



SAFETY DATA SHEET

TSC5000

SECTION 1. IDENTIFICATION

Product Name: TCS5000

Product Description: Metalworking Fluid

Intended Use: Metalworking Fluid

Supplier:

Active Industrial Fluids Inc. 5156 Hennin Drive, Oldcastle, Ontario, Canada N0R 1L0

Tel: 519-737-0141

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview:

May be irritating to eyes and skin

Potential Health Effects

Primary Routes of Exposure:

Eye contact May irritate eyes, avoid eye contact

Ingestion May cause gastrointestinal irritation, avoid ingestion

Inhalation May cause irritation of the respiratory tract, avoid breathing

Skin contact May irritate skin, avoid skin contact

Aggravated Medical Condition: None known.

Other hazards

None known.



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Hazardous components

Chemical name	CAS-No.	Concentration
Severely-hydrotreated naphthenic petroleum distillates	64742-52-5	<50%
Hexahydro-1,3,5-Tris(2-Hydroxyethyl)-S-Triazine	4719-04-4	<3%
Chlorinated Paraffin	63449-39-8	<6%

SECTION 4. FIRST AID MEASURES

If inhaled: Move to fresh air.

Artificial respiration and/or oxygen may be necessary.

Seek medical advice.

In case of skin contact: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Wash skin thoroughly with soap and water or use recognized skin cleanser.

Wash clothing before reuse.

Seek medical advice.

In case of eye contact: Remove contact lenses.

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Obtain medical attention.

If swallowed: Rinse mouth with water.

DO NOT induce vomiting unless directed to do so by a physician or poison control center.

Never give anything by mouth to an unconscious person.

Seek medical advice.

Most important symptoms and effects, both acute and delayed: First aid responder needs to protect himself.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: No information available.

Specific hazards during firefighting: Cool closed containers exposed to fire with water spray.

Hazardous combustion products: Carbon oxides (CO, CO₂), smoke, sulfur oxides, hydrogen chloride and irritating vapours as products of incomplete combustion.

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment.

Ensure adequate ventilation.

Evacuate personnel to safe areas.

Material can create slippery conditions.

Environmental precautions: If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up: Prevent further leakage or spillage if safe to do so.

Remove all sources of ignition.

Soak up with inert absorbent material.

Ensure adequate ventilation.

Contact the proper local authorities.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling: For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

In case of insufficient ventilation, wear suitable respiratory equipment.

Avoid contact with skin, eyes and clothing.

Do not ingest.

Keep away from heat and sources of ignition.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components CAS-No. Value type (Form of exposure)

Control parameters/ Permissible concentration Basis

Severely-hydrotreated naphthenic petroleum distillates 64742-52-5

TWA (Mist) 5 mg/m³ ACGIH

Engineering measures : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

Respiratory protection: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Filter type: organic vapour filter

Hand protection Material : neoprene, nitrile, polyvinyl alcohol (PVA), Viton(R).

Remarks: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection: Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Protective measures: Wash hands and face before breaks and immediately after handling the product.

Wash contaminated clothing before re-use.

Ensure that eyewash station and safety shower are proximal to the work-station location.

Hygiene measures: Remove and wash contaminated clothing and gloves, including the inside, before re-use.

Wash face, hands and any exposed skin thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid

Colour : Amber

Odour : Mild

Odour Threshold : No data available

pH : 9.5

Pour point : -5 °C
Boiling point/boiling range : No data available
Flash point : Not applicable
Fire Point : No data available
Auto-Ignition Temperature : No data available
Evaporation rate : No data available
Flammability : Low fire hazard. This material must be heated before ignition will occur.
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available
Relative vapour density : No data available
Density : 1.0 kg/l (15 °C / 59 °F)
Solubility(ies)
Water solubility : soluble
Partition coefficient: octanol/water: No data available
Viscosity, kinematic : Not available
Explosive properties : Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions: Hazardous polymerization does not occur.
Stable under normal conditions.
Conditions to avoid: No data available
Incompatible materials: Reactive with oxidizing agents and reducing agents.
Hazardous decomposition products: May release COx, smoke and irritating vapours when heated to decomposition.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact, Ingestion, Inhalation, Skin contact

Acute toxicity

Product:

Acute oral toxicity: Remarks: No data available
Acute inhalation toxicity: Remarks: No data available
Acute dermal toxicity: Remarks: No data available

Component:

Severely-hydrotreated naphthenic petroleum distillates CAS 64742-52-5
Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg
Acute inhalation: LC50 (Rat): 5.7 mg/L, 4 hours
Acute oral: LD50 (Rat): >5000 mg/kg

Skin corrosion/irritation

Product:

Remarks: No data available

Serious eye damage/eye irritation

Product:

Remarks: No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Component:

Severely-hydrotreated naphthenic petroleum distillates
Toxicity to fish: Remarks: LC50 >100 mg/L, 96 hours

Chlorinated Paraffin

Toxicity to fish: Remarks: (Bluegill) LC50: > 0.1 mg/L, 96 hours

Product:

Toxicity to daphnia and other aquatic invertebrates: Remarks: No data available

Toxicity to algae: Remarks: No data available

Toxicity to bacteria: Remarks: No data available

Persistence and degradability

Product:

Biodegradability: Remarks: No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.

Offer surplus and non-recyclable solutions to a licensed disposal company.

Waste must be classified and labeled prior to recycling or disposal.

Send to a licensed waste management company.

Dispose of product residue in accordance with the instructions of the person responsible for waste disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN3082, Environmentally hazardous substance, liquid Chlorinated Paraffin, Marine pollutant

Transport hazard class: 9

Packing group: III

Environmental hazards: Yes

Special precautions for user: Read safety instructions, MSDS and emergency procedures.

Supplemental information: Canadian TDG regulations may have criteria that would allow this material to be shipped as "Non Regulated" in some instances. To make that determination, refer to the regulations.

IMDG-Code

UN3082, Environmentally hazardous substance, liquid Chlorinated Paraffin, Marine pollutant

Transport hazard class: 9

Packing group: III

Environmental hazards: Yes, marine pollutant

EmS: F-A, S-F

Special precautions for user: Read safety instructions, MSDS and emergency procedures.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

TDG

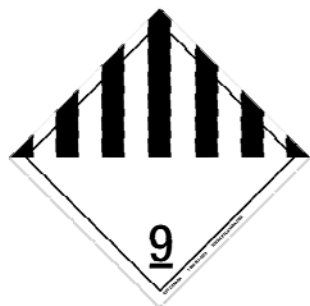
UN3082, Environmentally hazardous substance, liquid Chlorinated Paraffin, Marine pollutant

Transport hazard class: 9

Packing group: III

Environmental hazards: Yes, marine pollutant

IATA: IMDG, TDG



Marine Pollutant



SECTION 15. REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

The components of this product are reported in the following inventories:

DSL On the inventory, or in compliance with the inventory

TSCA All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

IECSC On the inventory, or in compliance with the inventory

ELINCS At least one component is not listed in EINECS but all such components are listed in ELINCS.

SECTION 16. OTHER INFORMATION

HMIS Rating	Health: 1	Flammability: 0	Physical Hazard: 0	Personal Protection: B
NFPA Ratings	Health: 1	Flammability: 0	Instability: 0	

For Product Safety Information: 1 877-737-0141

Prepared by : Technical Service

Revision Date: 2018/01/01

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.