

Material Safety Data Sheet

Revision date 03-Mar-2015

Supersedes date 05-June-2011

Version 2

1. Product and Company Identification

Product name	SCHULTZ® S750
Recommended Use	Heat transfer fluids
Company	Schultz Canada Chemicals Ltd
address:	1699 Matthews Ave Vancouver BC, V6J 2T3
Telephone	778-383-2793
E-mail address	Jillian.Jiang@schultzchem.com
Emergency Telephone	778-938-5977

2. Hazards Identification

Appearance	Clear
Color	Light yellow
Physical State	Liquid
Odor	Characteristic

Emergency Overview:

May cause slight eye irritation. Substance may cause slight skin irritation.

Potential health effects

Acute toxicity	
Eyes	May cause slight irritation.
Skin	May cause slight irritation.
Inhalation	Elevated processing temperatures may cause release of vapors which are irritating if inhaled.
Ingestion	Not expected to produce significant adverse health effects.
Chronic effects	No known effect.
Environmental hazard	May cause long lasting harmful effects to aquatic life.

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Terphenyl, hydrogenated	61788-32-7	74 - 87
Polyphenyls, quater- and higher, partially hydrogenated	68956-74-1	10 -18
Terphenyl	26140-60-3	3 - 8

4. First-Aid Measures

General advice	In case of doubt or symptoms persist, seek medical advice. In case of unconscious, get medical attention immediately.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately if symptoms occur.
Skin contact	Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
Inhalation	If inhaled: Remove to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.
Ingestion	If swallowed: rinse mouth with water. Do NOT induce vomiting unless directed to do so by a physician. Call a physician immediately.
Notes to physician	Persons who have inhaled vapors or smoke fumes have to be put under medical observation for at least 48 hours, due to the delayed appearance of poisoning.

5. Fire-Fighting Measures

Suitable extinguishing media	Water spray, Foam, Dry powder, Carbon dioxide (CO ₂).
extinguishing media which shall not be used for safety reasons	Do not use direct water stream. May spread fire.
Special Hazard	During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Hydrocarbons. Carbon monoxide. Carbon dioxide. Toxic to aquatic life with long lasting effects. Runoff may pollute waterways.
Special Protective Equipment for Firefighters	As in any fire, wear self-contained breathing apparatus (SCBA), and full protective gear. Evacuate all persons from the vicinity Promptly isolate the scene. Prevent fire extinguishing water from contaminating surface water and groundwater systems .Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and extinguishing water contaminated must comply with local regulations for disposal. In the premise there is no danger of the container is removed from the scene in. Water spray to cool containers / tanks.

6. Accidental Release Measures

Personal precautions	Do not touch or walk through spilled material. Avoid contact skin, eyes and clothing. Wear personal protective equipment. If appropriate refer to headings 8.
Environmental precautions	Stop leak if safe to do so. Clean up spill immediately. Prevent from entering into soil, drains or water courses.
Methods for containment and cleaning up	Small spills: as far as possible the leaking fluid collection in airtight containers. Absorb with sand, diatomaceous earth or other inert materials, Large spills: constructing dike or have dug a pit for a large number of the leakage, and transferred to the properly labeled containers, recycling or shipped to the disposal of waste places. Clean contaminated surface thoroughly. Prevent product and washing from entering drains, sewers or surface water. If appropriate refer to headings 13.

7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Do not eat, drink or smoke when using this product. Wear personal protective equipment. Wash thoroughly after handling. Use in well ventilated areas. In case of insufficient ventilation, wear suitable respiratory equipment. See also headings 8.
Storage	Store in a dry, cool and well-ventilated place. Keep container closed. Keep away from direct sunlight. Keep away from contact with oxidizing materials. Away from fire and heat source. Keep in properly labeled containers to avoid environmental contamination. Store in accordance with local regulations. German storage class 10.

8. Exposure Controls/Personal Protection

Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Terphenyl, hydrogenated	TWA: 0.5 ppm	TWA: 0.5 ppm TWA: 5 mg/m ₃	TWA: 0.5 ppm TWA: 5 mg/m ₃
Terphenyl	Ceiling: 5 mg/m ³	Ceiling: 1 ppm Ceiling: 9 mg/m ₃	IDLH: 500 mg/m ₃

Exposure controls	
Engineering Controls	Maintain air concentrations below occupational exposure standards. Apply technical measures to comply with the occupational exposure limits. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.
Personal protective equipment	
Eye protection	Use chemical goggles. In order to avoid direct exposure to liquid splashes, mists or dusts suggestion: Wear safety glasses with side shields if splashing may occur, wear a mask.
Skin and body protection	Wear protective gloves. If necessary, wear protective clothing and rubber boots to prevent skin and body contact with liquid Material. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction.
Respiratory protection	Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines.
Hand Protection	Wear chemical resistant gloves. Please read carefully the glove supplier explain the permeability about gloves and solvent penetration time.
Environmental exposure controls	The product should not be allowed to enter drains, water courses or the soil. Avoid release to the environment.

9. Physical and Chemical Properties

9.1 physical/ chemical properties Information

Appearance	Clear Liquid
Color	Colorless to light yellow
Odor	Characteristic
Odor threshold	No information available
pH	No information available
Melting point/freezing point	< -24 °C (pour point)
Boiling point/boiling range	340 °C (1013 hPa)
Flash point	181°C (Open Cup)
Evaporation Rate	No information available
Flammability (solid, gas)	Not flammable
Flammability Limits in Air	
Upper flammability limit	No information available
Lower flammability limit	No information available
Vapor pressure	0.00174hPa (20°C)
Vapor density	No information available
Specific gravity	1.010 (20°C)
Water solubility	0.061 g/l
Solubility in other solvents	No information available
Partition coefficient:n-octanol/water	> 3160000
Auto-ignition temperature	374 °C
Decomposition temperature	No information available
Viscosity, kinematic	29.8 mm ² /s (40 °C) 3.9 mm ² /s (100 °C)
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing
9.2 Other information	
Density	1012 kg/m ³ (20°C)

10. Stability and Re-activity

Stability	Stable under normal conditions.
Conditions to avoid	Heating in air.
Incompatible materials	Strong oxidizing agents.
Hazardous polymerization	Hazardous polymerization does not occur.
Hazardous decomposition products	None known based on information supplied.

11. Toxicological Information

11.1 Acute toxicity

Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
Component Information	
Terphenyl, hydrogenated	
LD50 Oral (Rat)	> 10000 mg/kg
LD50 Dermal (Rabbit)	> 2000 mg/kg
LC50 Inhalation (Rat,4 h)	> 4.7 mg/l
Terphenyl	
LD50 Oral (Rat)	> 2000 mg/kg
LD50 Dermal (Rabbit)	> 2000 mg/kg
LC50 Inhalation (Rat)	> 3.8 mg/l
Eyes contact	May cause slight irritation.
Skin contact	May cause slight irritation.
Ingestion	Not expected to produce significant adverse health effects when recommended use instructions are followed.
Inhalatio	Elevated processing temperatures may cause release of vapors which are irritating if inhaled.
Chronic Toxicity	No known effect.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Sensitization	No data available to indicate product or components may be a skin sensitization.
Germ cell mutagenicity	Not mutagenic (in vitro, in vivo).
Developmental Toxicity	OECD Test No. 414: Prenatal Development Toxicity Study: Negative.
Target organ effects	None known.

12. Ecological Information

Toxicity

Acute aquatic toxicity	
Product Information	
96 hr LC50 (Fish):	> 1000 mg/l (Oncorhynchus mykiss)
48 hr EC50 (Aquatic invertebrates)	> 0.1 mg/l (Daphnia magna)
72hr EC50 (Algae/aquatic plants)	56 mg/l (Selenastrum capricornutum)
Conclusion	May cause long lasting harmful effects to aquatic life.

Ecotoxicity

Component Information

Component	log Pow
Terphenyl, hydrogenated	6.5
Terphenyl	5.09

13. Disposal Considerations

Waste disposal methods	Do not allow into any sewers, ground, or into any water. Dispose of contents/container to an approved waste disposal plant. All disposal practices must be in compliance with state and local laws and regulations. For the safety of persons conducting disposal, recycling or reclamation activities, please refer to the information in headings 8 (exposure controls and personal protection) of the SDS.
Contaminated packaging	Empty packaging should be taken to an approved waste handling site for recycling or disposal.
Other Information	See headings 15 for more information.

14. Transport Information

DOT	Not applicable
IMDG	Not applicable
IATA	Not applicable
TDG	Not applicable

15. Regulatory Information

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Re-authorization Act of 1986 (SARA). This product contains a chemical or 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	
Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

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 Re-authorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

International Regulations

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

Non-controlled

16. Other Information

NFPA	Health hazard 1 Flammability 1 Stability 0
HMIS	Health hazard 1 Flammability 1 Physical hazard 0
Supersedes date	05-June-2011
Revision date	03-Mar-2015
Revision Note	New SDS format. SDS sections updated: All.

Disclaimer

The SDS information applies only to the specified product, unless otherwise specified, in the case of a mixture of this product with other substances, which do not apply. The information provided is a guide for the safe operation and not as a guarantee of the quality manual. The SDS only those received professional training in the proper use of the product provides product safety information for. Users of this SDS, under special conditions of use must be made of the suitability of the SDS independent judgment. In special occasions, due to the use of this SDS caused injury, this SDS writers will not be held responsible.