

Safety Data Sheet

Revision date: 10-Jan-2016

Supersedes Date: 05-Jan-2014

Version: 3

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

Product name	SCHULTZ® S718
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@shschultz.com
Emergency telephone	778-938-5977

2. Hazards Identification

Hazard classification	The product has not been classified as hazardous according to the legislation in force.
OSHA specified hazards	Not applicable.
Hazard(s) not otherwise classified (HNOC)	None known.

3. Composition/Information on Ingredients

Component	CAS No.	Weight (%)
White mineral oil	8042-47-5	100

4. First-Aid Measures

General advice	In case of doubt or symptoms persist, seek medical advice. In case of
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	unconscious, get medical attention immediately.
Inhalation	Move to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
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 exposed or concerned get medical advice/attention.
Ingestion	If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.
Most important symptoms and effects, both acute and delayed	A description of any additional main symptoms and effects Section 11: Toxicological information.

Indication of any immediate medical attention and special treatment needed

Notes to physician	Contact with hot material can cause thermal burns. No specific antidote. Persons who have inhaled vapours or smoke fumes have to be put under medical observation for at least 48 hours, due to the delayed appearance of poisoning. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.
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5. Fire-Fighting Measures

Extinguishing media	
Suitable extinguishing media	Water spray, Dry powder, Carbon dioxide (CO ₂). Foam, Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.
Unsuitable extinguishing media	Do not use direct water stream. May spread fire.
Special hazards arising from the substance or mixture	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.
Advice for firefighters	
Fire fighting procedures	In any fire, wear self-contained breathing apparatus (SCBA), and full protective gear. Evacuate all persons from the vicinity Promptly isolate the

Special protective equipment for firefighters	<p>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.</p> <p>In any fire, wear self-contained breathing apparatus pressure-demand, and full protective gear.</p>
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6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	<p>Isolate area. Keep unnecessary and unprotected personnel from entering the area. Ventilate area of leak or spill. Avoid inhalation of vapors and spray mists. Do not touch or walk through spilled material. Avoid contact skin, eyes and clothing. Wear appropriate personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.</p>
Environmental precautions	<p>Stop leak if safe to do so. Clean up spill immediately. Prevent from entering into soil, drains or water courses.</p>
Methods and materials for containment and cleaning up	<p>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. Do not put it into the surrounding environment. Ban into the sewer.</p>

7. Handling and Storage

Precautions for safe handling	<p>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. Keep container closed .</p>
Conditions for safe storage	<p>Store in tightly closed container. Keep containers stored in a dry, cool and well-ventilated place. Keep away from direct sunlight. Store away from incompatible materials. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Additional storage and handling information on this product may be obtained by calling your sales or customer service contact.</p>

8. Exposure Controls/Personal Protection

Control parameters

Exposure limits

Chemical name	Type	Exposure limit values	Source
White mineral oil(petroleum)	TWA	5 mg/m ³	US. ACGIH Threshold Limit Values (01 2010)
White mineral oil(petroleum)	PEL	5 mg/m ³	US.OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

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.

Individual protection measures

Eye/face protection

Use chemical goggles.

Skin protection

Hand protection

Wear protective gloves. If necessary, wear protective clothing and rubber boots to prevent skin and body contact with liquid Material. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations.

Other protection

When prolonged or frequently repeated contact could occur, use protective clothing chemically resistant to this material. Selection of specific items such as faceshield, boots, apron, or full-body suit will depend on the task.

Respiratory protection

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Clear oily liquid
Color	Colorless
Odor	Odorless
Odor threshold	No determined
pH	Not data available
Melting point/freezing point	-55°C
Boiling point/boiling range	330°C
Flash point	172°C (Open Cup)
Evaporation rate	No determined
Flammability (solid, gas)	Not data available
Upper flammability limit	Not data available
Lower flammability limit	Not data available
Vapor pressure	<0.007hPa (20°C)
Vapor density	No data available
Specific gravity	0.869 (20°C)
Solubility(ies)	
Solubility in water	Negligible
Solubility (other)	No data available
Partition coefficient: n-octanol/water	log Kow: >6
Autoignition temperature	330°C (ASTM E659)
Decomposition temperature	No data available
Dynamic viscosity	12.99 mPa·s(40°C)
Kinematic viscosity	15 mm ² /s (40°C)
Explosive properties	No data available
Oxidizing properties	No data available

10. Stability and Reactivity

Reactivity	Material is stable under normal conditions.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	None, under normal conditions.
Conditions to avoid	Heating in air.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Emits acrid smoke and fumes when heated to decomposition.

11. Toxicological Information

Information on likely routes of exposure

Inhalation	None known
Ingestion	None known
Skin contact	None known
Eyes contact	None known

Information on toxicological effects

Acute toxicity	
Oral	LD50 (Rat): >5000 mg/kg.
Dermal	LD50 (Rabbit): >2000 mg/kg.
Inhalation	LC50 (Rat,4hr): >5mg/l.
Repeated dose toxicity	NOAEL(Rat, Oral Study): ≥1200mg/kg.
Skin corrosion/irritation	(Rabbit, 24h): none
Serious eye damage/eye irritation	(Rabbit, 24h): none
Respiratory or skin sensitization	No data available.
Germ cell mutagenicity	
In vitro	Genetic toxicity studies were negative.
In vivo	Genetic toxicity studies were negative.
Carcinogenicity	Ingestion(Rat); OECD Test No. 453: Combined Chronic Toxicity/ Carcinogenicity Studies; Remarks: negative.
Reproductive toxicity	NOAEL(Rat): ≥1000mg/kg
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity- repeated exposure	Not classified.
Aspiration hazard	Not classified.
Other effects	No data available.

12. Ecological Information

Ecotoxicity

Acute hazards to the aquatic environment

Fish	LC50 (Bluegill sunfish, 96 h): 10000 mg/l.
Aquatic invertebrates	LL50 (Water flea, 48 h): >100 mg/l.
Algae/aquatic plants	No data available.

Chronic hazards to the aquatic environment

Fish	No data available.
Aquatic invertebrates	No data available.
Toxicity to aquatic plants	LOEC(Algae (<i>Pseudokirchneriella subcapitata</i>), 72h): ≥100mg/l

Persistence and degradation

Biodegradation	Inherently biodegradable
BOD/COD ratio	No data available.

Bioaccumulative potential

Bioconcentration factor (BCF)	Has the potential to bioaccumulate.
Partition coefficient n-octanol / water (log Kow)	Log Kow: >6
Mobility in soil	No data available.
Other adverse effects	No data available.

13. Disposal Considerations

Disposal methods | Do not pour any sewers, ground, or pour any water. All disposal practices

must be in compliance with state and local laws and regulations. Empty packaging should be taken to an approved waste handling site for recycling or disposal. See headings 15 for more information.

14. Transport Information

DOT	Class not regulated.
IMDG	Class not regulated.
IATA	Class not regulated.

15. Regulatory Information

US EPCRA (SARA Title III) Section 313 - Toxic Chemical List

None

OSHA

Hazardous

TSCA (US Toxic Substances Control Act)

The intentional components of this product are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act)

All intentional components of this product are listed on the DSL. Any impurities present in this product are exempt from listing.

AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme)

All components of this product are listed on AICS or otherwise comply with NICNAS.

16. Other Information

Supersedes date	05-Jan-2014
Revision date	10-Jan-2016
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.