



Stainless Steel Solutions, LLC

Stainless Steel Protectant Safety Data Sheet

Section 1. Identification

Product Name: 607L -Stainless Steel Protectant

Product Code: 607L-PRO

Recommended use: Stainless Steel Coating

Restrictions on use: Use only as directed

Manufacturer Name: Stainless Steel Solutions, LLC
Address: 3740 Prospect Avenue #3
West Palm Beach, Florida 33404
Telephone number: 888-604-5586

Emergency phone number: 888-604-5586

Date of Preparation: September 16, 2013

Section 2. Hazard(s) Identification

Classification:

Physical	Health
Flammable Liquid Category 3	Skin Sensitization Category 1B

Danger!



Hazard statements

Flammable Liquid and vapor.
May cause an allergic skin reaction.

Precautionary statements

Keep away from heat, sparks, open flames, and hot surfaces.
No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment
Use explosion-proof electrical, ventilating and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing mist, vapors or spray.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves, eye protection and face protection.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.
In case of fire: Use water spray, carbon dioxide, foam or dry chemical to extinguish.

Store in a well-ventilated place. Keep cool.
Dispose of contents and container in accordance with local
and national regulations.

Section 3. Composition / Information on Ingredients

Chemical name	CAS No.	Concentration
Chlorobenzotrifluoride	98-56-6	85-90%
Acrylic Polymers	Proprietary	5-10%
Dipropylene Glycol Methyl Ether	34590-94-8	1-5%

The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4. First-Aid Measures

Inhalation: Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult have qualified personnel administer oxygen. Get medical attention.

Skin contact: Wash skin with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if irritation or symptoms develop or persists.

Eye contact: Immediately flush eye with water for 15 minutes while lifting the upper and lower lids. Get medical attention if irritation persists.

Ingestion: If conscious, wash out mouth with water. DO NOT induce vomiting. Never give anything by mouth to a person who is unconscious or convulsing. Get medical attention.

Most important symptoms/effects, acute and delayed: May cause eye and skin irritation. May cause allergic skin reaction. Prolonged skin contact may cause irritation. Inhalation of vapors or mists may cause mucous membranes and upper respiratory tract irritation. Ingestion may cause gastrointestinal irritation and nausea.

Indication of immediate medical attention and special treatment, if necessary: No immediate medical attention is required.

Section 5. Fire-Fighting Measures

Suitable (and unsuitable) extinguishing media: Use water spray, carbon dioxide, foam or dry chemical. A direct stream of water may spread the fire.

Specific hazards arising from the chemical: This product is flammable and forms explosive mixtures with air. Vapors are heavier than air and will travel along surfaces to remote ignition sources and flash back. Closed containers may explode if exposed to extreme heat.

Special protective equipment and precautions for fire-fighters: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus. Cool fire exposure containers and structures with water.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Wear appropriate protective clothing and equipment to prevent eye and skin contact.

Environmental precautions: Prevent spill from entering sewers and water courses. Report spill as required by local and federal regulations.

Methods and materials for containment and cleaning up: Evacuate spill area and keep unprotected personnel away. Remove all sources of ignition. Ventilate area with explosion proof equipment. Contain and collect using inert absorbent materials and place in appropriate containers for disposal. Use non-sparking tools and equipment. If spill has not ignited, use water spray to disperse the vapors and protect personnel attempting to stop leak.

Section 7. Handling and Storage

Precautions for safe handling: Avoid contact with the eyes, skin and clothing. Avoid breathing vapors. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep product away from heat, sparks, flames and all other sources of ignition. Do not permit smoking in use or storage areas. Use with non-sparking tools and explosion proof equipment. Electrically bond and ground containers for transfer.

Do not cut, drill, grind or weld on or near containers, even empty containers. Empty containers retain product residues can be hazardous. Follow all MSDS precautions when handling empty containers.

Conditions for safe storage, including any incompatibilities: Store in accordance with regulations for the storage of flammable liquids. Store in a dry, well ventilated area away from heat, direct sunlight and all sources of ignition. Store away from oxidizers and other incompatible materials.

Section 8. Exposure Controls / Personal Protection

Exposure guidelines:

Chlorobenzotrifluoride	None Established
Acrylic Polymers	None Established
Dipropylene Glycol Methyl Ether	100 ppm, skin TWA OSHA PEL 100 ppm, skin TWA ACGIH TLV 150 ppm STEL ACGIH TLV

Appropriate engineering controls: Use with adequate local exhaust ventilation to maintain exposures below the occupational exposure limits.

Personal Protective Equipment:

Respiratory protection: If the exposure limits are exceeded a NIOSH approved organic vapor respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

Skin protection: Neoprene or other impervious gloves are recommended to prevent skin contact.

Eye protection: Chemical safety goggles should be worn if contact is possible.

Other: Impervious clothing as needed to prevent contact. A safety shower and eye wash should be available in the immediate work area if splashing is possible.

Section 9. Physical and Chemical Properties

Appearance: Clear, colorless liquid.

Odor: Medicinal odor.

Odor threshold: Not available	pH: Not available
Melting point/freezing point: Not available	Boiling point: 240-280°F / 115.5-137.7°C
Flash point: 109°F / 42.7°C (Chlorobenzotrifluoride)	Evaporation rate: Slower than water
Flammability (solid, gas): Not flammable	
Flammable limits: LEL: 0.9% (Chlorobenzotrifluoride)	UEL: 10.5% (1 Chlorobenzotrifluoride)
Vapor pressure: 7.63 mmHg @ 25°C (Chlorobenzotrifluoride)	Vapor density: >1
Relative density: 1.3	Solubility in Water: Miscible
Partition coefficient: n-octanol/water: Not available	Auto-ignition temperature: 408°F / 209°C (dipropylene glycol methyl ether)
Decomposition temperature: Not available	

Section 10. Stability and Reactivity

Reactivity: Not reactive under normal conditions of use.

Chemical stability: Stable

Possibility of hazardous reactions: Contact with sodium dimethylsulfinate generates exothermic reaction. .

Conditions to avoid: Keep away from heat sparks and open flames.

Incompatible materials: Avoid oxidizing agents or reducing agents.

Hazardous decomposition products: Thermal decomposition may yield carbon monoxide and carbon dioxide, hydrogen fluoride, carbonyl fluoride and other fluorinated organic compounds.

Section 11. Toxicological Information

Acute effects of exposure:

Inhalation: Inhalation of vapors or mists may cause mucous membrane and upper respiratory irritation.

Skin Contact: Prolonged skin contact may cause irritation.

Eye Contact: May cause irritation with redness and tearing.

Ingestion: Ingestion may cause gastrointestinal irritation and nausea.

Chronic Effects: Prolonged skin contact may cause irritation, drying and defatting of the skin.

Sensitization: Chlorobenzotrifluoride was positive in a mouse local lymphnode assay.

Germ Cell Mutagenicity: None of the components have been shown to cause germ cell mutagenicity.

Reproductive Toxicity: In a one generational study, rats were administered 5, 15 or 45 mg/kg of Chlorobenzotrifluoride for 76-83 days. No reproductive effects were observed. No developmental effects were observed in the offspring. NOAEL 45 mg/kg.

Carcinogenicity: None of the components are not listed as a carcinogen by IARC, NTP, ACGIH and OSHA.

Acute toxicity values:

1 Chlorobenzotrifluoride: Oral rat LD50 5546 mg/kg; Inhalation rat LC50 32.03 mg/L/4 hr; Dermal rabbit LD50 >3,300 mg/kg

Acrylic Polymer: Not acute toxicity data available.

Dipropylene glycol methyl ether: Oral rat LD50 >5000 mg/kg; Inhalation rat LC50 1667 mg/m³/7 hr; Dermal rabbit LD50 >19020 mg/kg;

Section 12. Ecological Information

This product is toxic to the aquatic environment under the GHS criteria.

Ecotoxicity values:

Chlorobenzotrifluoride: 96 hr LC50 Danio rerio 3 mg/L; 48 hr IC50 Daphnia magna 2 mg/L; 72 hr EC50

Pseudokirchnerella subcapitata > 0.41 mg/L

Dipropylene glycol methyl ether: 96 hr LC50 Poecilia reticulata >1000 mg/L; 48 hr LC50 daphnia magna 1919 mg/L

Persistence and degradability: Dipropylene glycol methyl ether is readily biodegradable. 1

Chlorobenzotrifluoride is not readily biodegradable.

Bioaccumulative potential: Acetone has a calculated BCF of 3. The BCF for Chlorobenzotrifluoride is 121.8-202.

Mobility in soil: Dipropylene glycol methyl ether is highly mobile in soil. Chlorobenzotrifluoride has a low mobility in soil.

Other adverse effects: None known.

Section 13. Disposal Considerations

Dispose in accordance with all local, state and federal regulations.

Section 14. Transport Information

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT In container <119 gallons:		Excepted from HazMat Regulations (49CFR 173.150f)			None
DOT In containers >119 gallons	UN2234	Chlorobenzotrifluoride Solution	3	PG III	None
TDG In container <119 gallons:		Excepted from Regulation (Section 1.33)			None
TDG In containers >119 gallons	UN2234	Chlorobenzotrifluoride Solution	3	PG III	None

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form.

Special precautions: None known

Section 15. Regulatory Information

Safety, health, and environmental regulations specific for the product in question.

CERCLA Hazardous Substances (Section 103)/RQ: This product is not subject to CERCLA reporting requirements as it is sold. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Fire Hazard, Acute Health Hazard

EPA SARA 313: This product contains the following chemicals regulated under SARA Title III, section 313: None

California Proposition 65: This product the following chemicals known to the State of California to cause cancer or reproductive toxicity: None

EPA TSCA Inventory: All of the components of this product are listed on the TSCA inventory.

CANADA:

Canadian CEPA: All the components of this product are listed on the Canadian DSL.

Canadian WHMIS Classification: Class B Division 3 (Combustible Liquid); Class D Division 2 Subdivision B (Toxic Material Causing other Chronic Effects)

This product has been classified under the CPR and this SDS discloses information elements required by the CPR.

Section 16. Other Information

SDS Revision History: New SDS

Date of preparation: 16 September 2013

Date of last revision: None