



TRIPLE S

MATERIAL SAFETY DATA SHEET

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

Product name: FRONTLINE SURFACE PROTECTOR (07012, 07013)

Chemical family: Mixture of surfactants, polymer, and wax.

Product use: For protection of hard surfaces from graffiti.

Manufactured for:

Triple S

2 Executive Park Drive
Billerica, MA, U.S.A. 01862

Phone: 800-323-2251

Emergency Tel. #: 888-779-1339

SECTION 2 — HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PERSONAL PROTECTIVE EQUIPMENT



HMIS RATINGS

HEALTH:	1
FLAMMABILITY:	0
PHYSICAL HAZARD:	0

Warning! Causes eye irritation. May cause respiratory tract irritation. Can cause nausea, vomiting, and diarrhea. Prolonged or repeated contact may dry skin and cause irritation. Contains material that may cause adverse liver effects. Not flammable. Not reactive. Release to the environment may cause harm.

Target organs: Eyes, skin, respiratory system, digestive system, liver.

Routes of exposure: Skin contact, eye contact, inhalation, ingestion.

Signs and symptoms of short-term (acute) exposure:

Inhalation: Inhalation may irritate the nose, throat and upper respiratory tract.

Skin: Skin contact may cause irritation.

Eyes: Eye contact may cause severe irritation.

Ingestion: If ingested, this material may irritate the mouth, throat and stomach. Symptoms may include nausea, vomiting, and diarrhea. This product is not likely to present an aspiration hazard; however, if this material is aspirated into the lungs following ingestion, it may cause life-threatening lung injury.

Chronic effects: Repeated or prolonged exposure may cause dermatitis (drying, cracking and defatting of the skin). Repeated ingestion may cause adverse liver effects.

Carcinogenic status: See TOXICOLOGICAL INFORMATION, Section 11.

Additional health hazards: None currently known. For further information, see TOXICOLOGICAL INFORMATION, Section 11.

Potential environmental effects: See ECOLOGICAL INFORMATION (Section 12).

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	% w/w
Carnauba Wax	8015-86-9	5-10%
1,3-Butanediol	107-88-0	10-30%
2-Butoxyethanol Phosphates	78-51-3	10-30%
Medium Aliphatic Solvent Naphtha (Petroleum)	64742-65-0	10-30%
Water	7732-18-5	Balance

NOTE (1): ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2004 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. This material is classified as hazardous under OSHA regulations (29CFR 1910.1200).

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SECTION 4 — FIRST AID MEASURES

Inhalation: If inhaled, immediately remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention if adverse effect continues after removal to fresh air.

Skin contact: Immediately remove contaminated clothing and shoes. Wash skin thoroughly with mild soap and running water. Obtain medical attention if irritation persists. Launder clothing before reuse.

Eye contact: Immediately flush eyes with running water for a minimum of 15 minutes. Obtain medical attention immediately if adverse effect continues after flushing.

Ingestion: DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain medical attention immediately. Guard against aspiration into the lungs.

Conditions aggravated by exposure: May aggravate pre-existing skin, eye and respiratory problems.

Recommendations to physicians: Treat symptoms and eliminate overexposure.

SECTION 5 — FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability If the water in this product is allowed to evaporate off, the remaining residue may be combustible. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Flammability classification (OSHA 29 CFR 1910.1200): None.

Flash point: Not applicable.

Auto-ignition temperature: Not Established

Oxidizing properties: None known

Lower flammable limit (% by vol.): Not Established

Upper flammable limit (% by vol.): Not Established

Explosion data:

Product is insensitive to normal mechanical impacts. Product is slightly sensitive to static discharge: vapors may be sensitive to discharge. Avoid static discharge by grounding containers and transfer equipment.

Suitable extinguishing media: Use media suitable to the surrounding fire, such as foam, dry chemical, carbon dioxide or water spray / fog.

Special fire-fighting procedures/equipment: Firefighters should wear proper protective equipment and respiratory protection as conditions warrant. Move containers from fire area if it can be done without risk. Water spray may be useful in cooling equipment and containers exposed to heat and flame.

Hazardous combustion products: Carbon oxides, other irritating fumes, and smoke.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate chemically protective equipment. Keep all other personnel upwind and away from the spill/release. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

Environmental precautions: Ensure spilled product does not enter drains, sewers or confined spaces. Dike far ahead of large spills with non-combustible, inert absorbent material.

Spill response/Cleanup: Eliminate all sources of ignition. Ventilate area of release. Stop leak if you can do so without risk. Use non-sparking tools. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand, earth), then place absorbent material into a suitable container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

Prohibited materials: None known.

Special spill response procedures: If a spill/release in excess of EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).

DOT/CERCLA Reportable quantity (RQ): None.

SECTION 7 — HANDLING AND STORAGE

Safe handling procedures: Wear appropriate protective equipment during handling. Use in a well-ventilated area. Avoid inhalation of vapors, mists or sprays. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep away from heat and flame. Keep away from acids and other incompatible materials. Use caution when opening cap. Keep container tightly closed when not in use. Assume empty containers contain residues, which are hazardous.

General hygiene considerations: Avoid inhalation of vapors and mists. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when working. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

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SECTION 7 — HANDLING AND STORAGE (Continued)

Storage requirements: Store in a cool, dry, well-ventilated area away from sources of heat and sunlight. Store containers away from incompatible chemicals (see Section 10, Stability and Reactivity). Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

Special packaging materials: Always keep in containers made of the same materials as the supply container.

SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation and engineering controls: Use in well-ventilated area. Local mechanical exhaust / extraction ventilation may be required if used indoors on a continuous basis.

Exposure Limits:

CHEMICAL NAME	CAS #	EXPOSURE LIMITS IN AIR							
		ACGIH-TLVs		OSHA-PELs		NIOSH-RELs		NIOSH	OTHER
		TWA mg/m ³	STEL mg/m ³	TWA mg/m ³	STEL mg/m ³	TWA mg/m ³	STEL mg/m ³	IDLH mg/m ³	
Carnauba Wax	8015-86-9	NE	NE	NE	NE	NE	NE	NE	NE
1,3-Butanediol	107-88-0	NE	NE	NE	NE	NE	NE	NE	NE
2-Butoxyethanol Phosphates	78-51-3	NE	NE	NE	NE	NE	NE	NE	NE
Medium Aliphatic Solvent Naphtha (Petroleum) (exposure limits are for petroleum distillates)	64742-65-0	NE	NE	2000	350	1800 ceiling, 15-min	NE	NE	NE
Water	7732-18-5	NE	NE	NE	NE	NE	NE	NE	NE

NE = Not Established.

Respiratory protection: Respiratory protection is required if airborne concentrations are above recommended TLVs or are not known. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134) or equivalent U.S. State standards, and the Canadian CSA Standard Z94.4-02, *Selection, Care and Use of Respirators*. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, in emergency situations or when oxygen levels are unknown, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under OSHA's Respiratory Protection Standard (1910.134-1998).

Hand protection: It is recommended that protective gloves impervious to the material be worn at all times during use. Use triple gloves for spill response. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate standards of Canada.

Eye / face protection: Use chemical splash goggles when a potential for eye contact exists. A full face shield should be worn when handling more than 1 gallon of product. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or the Canadian CSA Standard Z94.3-07, *Industrial Eye and Face Protection*. An eyewash station and safety shower should be made available in the immediate working area.

Skin protection and other protective equipment: Use body protection appropriate for task. An apron, or other impermeable body protection is suggested. Full-body chemical protective clothing is recommended for emergency response procedures. If necessary, refer to the OSHA Technical Manual (Section VII: Personal Protective Equipment), or appropriate Standards of Canada. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136 and the Canadian CSA Standard Z195-02, *Protective Footwear*. An eyewash station and safety shower should be made available in the immediate working area.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical state, odor and appearance: White, milky liquid, mild, petroleum solvent odor.

Specific gravity: Not established.

Volatiles (% by weight): Not established.

Vapor density (Air = 1): Not established.

Evaporation rate (n-Butyl acetate = 1): Not established.

pH: 8

Solubility in water: Miscible.

Vapor pressure (PSIG): Not established.

Boiling point: Not established.

Freezing point: Not established.

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SECTION 10 — REACTIVITY AND STABILITY DATA**Stability and reactivity:** Stable under the recommended storage and handling conditions prescribed.**Hazardous polymerization:** Will not occur.**Conditions to avoid:** Avoid sources of heat, flame, and direct sunlight.**Materials to avoid (incompatibles):** Acids, bases, strong oxidizing agents.**Hazardous decomposition products:** *Combustion:* Carbon oxides. *Hydrolysis:* None known.**SECTION 11 — TOXICOLOGICAL INFORMATION****Toxicological data:** There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data for components in 1% concentration or greater. Additional data is available but is not presented in this MSDS. Contact BK Enterprises for more information. See next page for tabulated information.

Ingredients	LC ₅₀ (4hr) inhalation, rat	LD ₅₀ (mg/kg) oral, rat	LD ₅₀ (mg/kg) dermal, rabbit
Carnauba Wax	Not established	Not established	Not established
1,3-Butanediol	Not established	>15000	Not established
2-Butoxyethanol Phosphates	Not established	3000	16 ml/kg
Medium Aliphatic Solvent Naphtha (Petroleum)	Not established.	>5000	>5000
Water	Not established.	>90 ml/kg	Not established.

Carcinogenicity: None of the ingredients listed are classified by IARC, ACGIH, NTP, MAK, EPA, NIOSH or OSHA as carcinogenic.**Reproductive effects, Teratogenicity, Mutagenicity:** Animal reproductive data are available for the 1,3-Butanediol component of this product; these data were obtained during clinical studies on specific animal tissues exposed to high doses of this compound.

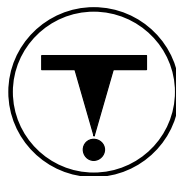
Solvent-dewaxed heavy paraffinic petroleum distillates (no-mild solvent-refining or no-mild hydrotreatment) may be mutagenic, but there is insufficient information available to draw firm conclusions

Sensitization to material: None known.**Synergistic materials:** Not available.**Other important hazards:** CNS depression may result from exposure.**SECTION 12 — ECOLOGICAL INFORMATION****Ecotoxicological information:** The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters. Do not discharge product unmonitored into the environment.**Chemical fate information:** There is no data available on the product itself. The main components of this product are expected to biodegrade by atmospheric, aquatic and ground applications.**SECTION 13 — DISPOSAL CONSIDERATIONS****Handling for disposal:** Handle according to recommendations listed in Section 7.**Methods of disposal:** Dispose in accordance with all applicable federal, state and local regulations. Contact your local, state or federal environmental agency for specific rules.**RCRA:** For disposal of unused or waste material, check with local, state and federal environmental agencies.**SECTION 14 — TRANSPORTATION INFORMATION****U.S. DOT transportation regulation information:** This product is NOT classified as Dangerous Goods under regulations of the U.S. DOT, 49 CFR.**Transport Canada transportation regulation information:** This product is NOT classified as Dangerous Goods, per regulations of Transport Canada.

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SECTION 15 — REGULATORY INFORMATION**US Federal Information:****TSCA information:** All ingredients are listed on the TSCA inventory.**DOT/CERCLA Reportable Quantity (RQ):** None reported**SARA TITLE III:***Sec. 302, Extremely Hazardous Substances, 40 CFR 355:* No Extremely Hazardous Substances are present.*Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes:* Immediate (Acute); Delayed (Chronic). Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.*Sec. 313, Toxic Chemicals Notification, 40 CFR 372:* This material is not subject to TSCA notification requirements, since it does not contain any Toxic Chemical constituents.**California Proposition 65:** This material contains no components requiring California Proposition 65 notification as formulated.**State Right-to-Know Laws:** This preparation contains components that are on the Right-to-Know Lists of several states. The table on the following page contains the components list and the States that list the component on their Right-to-Know Lists. Any state not listed follows the OSHA list of the US Federal Government.

CHEMICAL NAME	STATES REQUIRING NOTIFICATION
Carnauba Wax	None
1,3-Butanediol	None
2-Butoxyethanol Phosphates	NJ, PA
Medium Aliphatic Solvent Naphtha (Petroleum)	None
Water	None

CANADIAN FEDERAL REGULATION INFORMATION:**Canadian DSL/NDSL Inventory status:** Components of this product are listed on the DSL Inventory.**Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:** No component of this product is on the CEPA Priorities Substances Lists.**Canadian WHMIS classification and symbols:****Class D2A/D2B:** Material Causing Other Toxic Effects (Toxicity-Irritation-Sensitization)

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SECTION 16 — OTHER INFORMATION

Legend: ACGIH: American Conference of Governmental Industrial Hygienists
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
NIOSH: National Institute of Occupational Safety and Health
CAS: Chemical Abstract Services
DOT: Department of Transportation
IARC: International Agency for Research on Cancer
N/Ap: not applicable
OSHA: Occupational Safety and Health Administration
RCRA: Resource Conservation and Recovery Act
SARA: Superfund Amendments & Reauthorization Act
TSCA: Toxic Substance Control Act
RTECs: Registry of Toxic Effects of Chemical Substances

HSDB: Hazardous Substances Data Bank
CFR: Code of Federal Regulations
EPA: Environmental Protection Agency
MST: Mountain Standard Time
N/Av: not available
NTP: National Toxicology Program
PEL: Permissible Exposure Limit
TLV: Threshold Limit Values
TWA: Time Weighted Average

Disclaimer:

The information in this MSDS was obtained from sources we believe are reliable. We believe the information was accurate at the time it was compiled. However, no warranty, express or implied, including, without limitation, any warranty of **fitness for a particular purpose or merchantability**, is made as to the accuracy, reliability or completeness of this information, and all such warranties are disclaimed. The conditions of storing, handling and use being beyond the manufacturer's control, it is the sole responsibility of the user to determine all appropriate precautions for the safe handling and use of this product. The information contained herein pertains only to this product and not to its use in combination with any other materials. It is the user's responsibility to comply with all applicable federal, state, and local laws. Manufacturer disclaims all liability for incidental or consequential damages arising out of or in connection with the use of, or inability to use, this product.

Prepared for: Triple S
Telephone No.: 800-323-2251
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