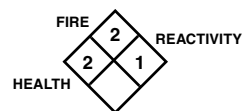


MATERIAL SAFETY DATA SHEET and WARRANTY

B444-0C25

Date: March 25, 2010

Section I Identification



HEALTH	[2*]
FLAMMABILITY	[2]
REACTIVITY	[1]
PROTECTION	[H]

Product Name:	SCOFIELD® Formula One™ Guard-S Concentrate
Chemical Name:	Mixture
Chemical Family:	Mixture
Chemical Formula:	Mixture
Emergency Telephone Number:	CHEMTREC (800) 424-9300
Telephone Number for Information:	SCOFIELD (770) 920-6000 (323) 720-3000

Section II Composition/ Information on Ingredients

Composition	Weight	OSHA PEL	ACGIH TLV	CAS Number
*Parachlorobenzotrifluoride	40–70%	NE	NE	98-56-6
*Aromatic Petroleum Distillates	10–30%	100 ppm	NA	64742-95-6
+Trimethylbenzene	7–13%	25 ppm	25 ppm	95-63-6

* Indicates chemical(s) that are chronic health hazards. Refer to *Section III—Hazards Identification* for further information.

+ Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

NE = Not established

Section III Hazards Identification

Emergency Overview:

Combustible liquid and vapor. Causes eye, skin, nose and throat irritation. May produce symptoms of central nervous system depression including headache, dizziness, nausea, loss of balance and drowsiness.

Target Organs:

Central nervous system, kidneys, liver.

Primary Routes of Exposure:

Eyes, ingestion, inhalation, skin.

Effects of Acute Exposure:

Eyes — **Contact with eyes will cause irritation including burning, watering, and redness.**

Skin — **Contact may cause mild skin irritation including redness, burning, and drying and cracking of skin. Continued exposure may develop into dermatitis. Solvents can penetrate the skin and cause systematic effects similar to those under inhalation symptoms.**

Inhalation — **High vapor concentrations are irritating to the eyes and respiratory tract, may cause headaches, dizziness, anesthesia, asthma, drowsiness, unconsciousness, and other central nervous system effects, and possibly death.**

Ingestion — **Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Small amounts aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury.**

Chronic Health Effects:

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (sometimes referred to as Solvent or Painter's Syndrome). Intentional misuse by deliberately concentrating and inhaling this material may be harmful or fatal. Chronic exposure may also cause damage to the respiratory system, lungs, eyes, skin, gastrointestinal tract, liver, spleen and kidneys. Repeated skin contact may cause persistent irritation or dermatitis.

Medical Conditions Generally Aggravated by Exposure:

Conditions aggravated by exposure may include skin disorders, respiratory (asthma-like) disorders, and pre-existing liver or kidney conditions.

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Section IV First Aid Measures

Emergency and First Aid Procedures:

Eyes — **OBJECT IS TO FLUSH MATERIAL OUT IMMEDIATELY THEN GET MEDICAL ATTENTION.** Flush **IMMEDIATELY** with lukewarm water while holding eyelids apart. Flushing within several seconds is essential to achieve maximum effectiveness. If physician is not immediately available, continue flushing with water.

Inhalation — If breathing becomes difficult, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

Ingestion — **Do not induce vomiting.** Vomiting will cause further damage to the throat. Give conscious victim 1 to 2 glasses of water. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water. Contact local poison control center. Immediately transport victim to an emergency facility. Never give anything by mouth if victim is losing consciousness, or is unconscious or convulsing.

Skin — Wash thoroughly with soap and water. Remove soiled clothing and footwear and wash before reuse. If irritation occurs, get medical attention.

Section V Fire and Explosion Hazard Data

Flash Point: 110° F (43° C)

Flammable Limits (% in Air by Volume): Lower – 0.9 Upper – 10.5

Extinguishing Media: Foam, dry chemical, carbon dioxide, water fog or spray.

Special Fire Fighting Procedures: **Evacuate all unnecessary personnel. Shut down motors, pumps, electrical service and eliminate all sources of ignition. Use water spray to keep fire exposed containers cool to avoid pressure buildup. Wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus and full protective clothing.**

Unusual Fire and Explosion Hazards: **Vapors may be ignited by heat, sparks, flames, or other sources of ignition. Vapors are heavier than air and may travel considerable distances to a source of ignition where they may cause a flashback or explosion. If container is not properly cooled, it can rupture in the presence of excessive heat.**

Section VI Accidental Release Measures

Steps to Be Taken in Case Material is Released or Spilled:

Only qualified personnel who have read the product Tech-Data Bulletins and this MSDS should conduct these procedures. Keep all sources of ignition and hot metal surfaces away from spill/release. Use explosion-proof non-sparking equipment. Cordon off area if necessary to prevent unauthorized traffic or entry. Follow procedures in *Section VIII—Exposure Controls/Personal Protection*. Liquid material spills may be slippery.

Promptly dike to prevent spreading and stop spill at source. Collect with wet vacuum or absorb with inert material and place in labeled waste container for disposal together with all contaminated matter or equipment. If unable to prevent release to soil or waters of the state, immediate notice to local regulatory authorities is required

Section VII Precautions for Safe Handling and Use

Precautions to be taken in handling and storing:

Employees who come in contact with this material must be trained in accordance to 1910.1200 of the Hazard Communication Standard.

Store upright in a cool, dry, well-ventilated area, in tightly closed containers away from combustible materials and sources of heat. Store between 45 and 90° F (7–32° C). Protect from physical damage. Labels must not be removed from containers. Product should only be stored in original containers. Do not reuse empty containers. "Empty" containers retain residue, liquid and vapor, and may be dangerous. Do not cut, weld, pressurize, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause severe personal injury or death. All containers should be disposed of in an environmentally safe manner in accordance with all government regulations.

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SCOFIELD® Formula One™ Guard-S Concentrate

Section VII Precautions for Safe Handling and Use (continued)

Precautions to be taken in handling and storing (continued): **Note that once SCOFIELD Formula One Guard-S Concentrate is mixed with acetone, the material will be extremely flammable and may cause flash fires. Harmful if inhaled. Keep area properly ventilated and keep away from heat, sparks or open flame. Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point. Refer to the acetone manufacturer's Material Safety Data Sheet and Cautions Section for further health and safety information.**

Section VIII Exposure Controls/ Personal Protection

Ventilation/Engineering Controls: **Adequate ventilation and sufficient local exhaust as needed to maintain exposure below TWA and TLV limits.**

Respiratory Protection: **Wear NIOSH approved respirator. 3M Company's Tech Line (1-800-243-4630) may be helpful for respirator advice and availability. For respiratory protection guidelines, refer to OSHA 29 CFR 1910.134.**

Eye Protection: **Wear chemical-splash goggles.**

Skin Protection: **Wear impervious, chemical-resistant gloves (PVC or Nitrile).**

Other Protective Clothing or Equipment: **Wear suitable protective clothing, chemical-resistant apron and boots to avoid skin contact.**

Work/Hygienic Practices: **Minimize exposure in accordance with good hygienic practice. Wash with soap and water immediately after handling.**

Section IX Physical and Chemical Properties

Physical State:	Liquid	Solubility in Water:	Insoluble/Negligible
Appearance:	Clear (water white)	Specific Gravity (H ₂ O=1):	Approximately 1.15 (WPG: ~9.5)
Odor:	Hydrocarbon odor	Vapor Density (Air=1):	Heavier than air
Volatile Organic Compounds: After thinning with Acetone: Low-solids coating. Material VOC less than 120 g/L (1.0 lb/gal).			

Section X Stability and Reactivity

Stability:	Stable
Conditions to Avoid:	All sources of ignition.
Incompatibility (Materials to Avoid):	Avoid contact with oxidizing agents.
Hazardous Decomposition or By-products:	Chlorine-containing gases. Fluorine-containing gases. Carbon dioxide and carbon monoxide.
Hazardous Polymerization:	Will not occur.

Section XI Toxicological Information

Health Hazards (Acute and Chronic):
There are no ingredient raw materials at 0.1% or greater listed as potential carcinogens by OSHA, IARC, or NTP.

Section XII Ecological Information

Aquatic Toxicity Rating:
LC₅₀ aquatic toxicity rating not determined. Although there is no toxicity data available, it is reasonable to assume that sufficient quantities will affect aquatic life. Precautions should be taken to prevent the accidental release of this material to the environment. Trimethylbenzene is a marine pollutant under 49 CFR 172.101.

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Section XIII Disposal Considerations

Waste Disposal Method:

Follow personal protection procedures (*Section VIII*) when disposing of material. Disposal of all residual product, clean up liquids, used absorbent materials, and discarded equipment must be in accordance with all applicable federal, state and local regulations.

Scofield cannot make specific recommendations for disposal in any particular locality. The user is cautioned to be thoroughly familiar with all applicable requirements before use. Without endorsement of any particular waste disposal company, Scofield offers the following companies as possible resources for the disposal of industrial or hazardous waste:

Veolia Environmental 1-800-426-2382

Heritage Environmental 1-800-827-4374

Companies who dispose of hazardous waste may also be found on the Internet using "Hazardous Waste Disposal" as key search words.

Section XIV Transportation Information

US DOT Hazard Class:

Combustible liquid. Not regulated in containers 119 gallons (450 liters) or less, and ground transportation. (For containers greater than 119 gallons, vessels, international shipments, or air transport: UN1139, Coating Solution, 3, III).

Section XV Regulatory Information

U. S. Federal Regulations:

This product contains a chemical subject to the reporting requirements of Sections 311–312 of Title III of the Superfund Amendments and Reauthorization Act.

This product contains a chemical subject to the reporting requirements of Sections 313 Toxic Release Inventory: Trimethylbenzene (95-63-6).

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, material safety data sheets, training, and access to written records. It is your legal duty to make all information in this Material Safety Data Sheet available to your employees.

State Regulations:

State of California *Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)*;

WARNING: This product contains a chemical known to the State of California to cause cancer, or birth defects or other reproductive harm.

State Listed Components

CAS Number

State Code

Trimethylbenzene

95-63-6

CA,MA,MN,NJ,PA

For all state regulations, please check with the appropriate state agency.

WHMIS Classification: **Not determined.**

International Regulations: **Consult the regulations of the importing country.**

Section XVI Other Information

Before using this product:

Completely read Scofield's Tech-Data Bulletin B-444 SCOFIELD Formula One Guard-S Concentrate and the container label.

WARRANTY

Since no control is exercised over product use, L. M. Scofield Company (Scofield) represents and warrants only that its products are of consistent quality within manufacturing tolerances. NO OTHER ORAL OR WRITTEN REPRESENTATION OR STATEMENT OF ANY KIND, EXPRESS OR IMPLIED, NOW OR HEREAFTER MADE IS AUTHORIZED OR WARRANTED BY SCOFIELD, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Liability for breach of contract, negligence, or on any other legal basis is limited to the lesser of refund or replacement of defective materials. SCOFIELD WILL NOT BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING FOR DELAYS OR LOST PROFITS. Communication of this warranty and its limitations to end users is not the responsibility of Scofield, but should be communicated by those in direct contract with the end user. Any claim regarding product defect must be received in writing within one year from the date of manufacture. No claim will be considered without such written notice or after the specified time interval. The end user shall determine the suitability of the products for the intended use and assumes all risks and liability in connection therewith.