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IN CASE OF TRANSPORTATION EMERGENCY & AFTER HOURS, CONTACT CHEM-TEL, INC.  
1-800-255-3924

## MATERIAL SAFETY DATA SHEET

### PRODUCT INFORMATION

TRADE NAME: THE INVISIBLE SHIELD®  
PRODUCT DESCRIPTION: HARD SURFACE PROTECTANT

DOT: CONSUMER COMMODITY, ORM-D (In Containers 32 Fl. Oz. & Under)  
COMPOUND CLEANING LIQUID, FLAMMABLE LIQUID UN/NA 1993 Packing Group II (Containers Over 32 Fl. Oz.)  
NFPA: HEALTH HAZARD - 1(Slightly Hazardous); FLAMMABILITY - 3 (Below 100 Deg. F); REACTIVITY - 0 (Stable)

CAS NUMBER:  
RCRA HAZARD CLASS:(IF DISCARDED)  
EPA PRIORITY POLLUTANTS  
SARA TITLE III (Sec. 313) HAZARDOUS MATERIAL

PROPRIETARY  
D001, D002  
NONE  
NONE

(As determined by the National Toxicology Program [NTP], the International Agency for Research on Cancer [IARC], or by the Occupational Safety and Health Administration [OSHA].

### HAZARDOUS INGREDIENTS

MATERIAL or COMPONENT	CAS #	TLV (UNITS)	APPROX. % (WGT)
ETHYL ALCOHOL	64-17-5	1000 ppm	78%
ETHYL SULFATE	540-82-9	Not Determined	1%
ISOPROPYL ALCOHOL	67-63-0	400 ppm	12%

### PHYSICAL DATA

BOILING POINT, °F	172
SOLUBILITY IN WATER @ 25°C	SOLUBLE
SPECIFIC GRAVITY @ 25°C	0.80
VOLATILES @ BY VOLUME	91 TYPICAL
VAPOR PRESSURE, @ 25°C (mm Hg)	33
VAPOR DENSITY, (AIR=1)	>1
EVAPORATION RATE (BUTYL ACETATE = 1)	1.5
APPEARANCE @ 25°C	CLEAR, COLORLESS LIQUID
ODOR	ALCOHOL
FLASH POINT, °F (TAG OPEN CUP, ASTM D-1310)	66°F

### FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 65°F, Tag Open Cup, ASTM D-1310  
FLAMMABLE LIMITS IN AIR, %, BY VOLUME: LOWER: Undetermined UPPER: Undetermined  
EXTINGUISHING MEDIA: Use Carbon Dioxide or Dry Chemical on small fires. Use foam (ALCOHOL, POLYMER or ORDINARY) and water spray for large fires.  
SPECIAL FIRE FIGHTING PROCEDURES: Use self-contained breathing apparatus and protective clothing.  
UNUSUAL FIRE & EXPLOSION HAZARDS: Keep fire-exposed containers cool with water. Vapors are heavier than air and may travel along the ground; they may then be ignited by flames, sparks or other ignition sources at locations distant from the material handling point.

### HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: See HAZARDOUS INGREDIENTS section.  
EFFECTS OF OVEREXPOSURE: Contact with eyes will cause irritation. Prolonged contact with skin may cause drying.  
Excessive inhalation of vapors can cause nasal irritation, dizziness, weakness, nausea, headache and a narcotic reaction. If swallowed, may cause stomach cramps, nausea, vomiting and/or diarrhea.

**EMERGENCY AND FIRST AID PROCEDURES:** For eye contact, flush with copious amounts of water. For prolonged skin contact, wash with soap and water and apply skin cream/lubricating ointment. For inhalation, remove to fresh air. If swallowed, drink water and induce vomiting. For any emergency, obtain medical attention. Clothing soaked with product should be changed immediately.

## **REACTIVITY DATA**

**STABILITY:**

Stable (X)

Unstable ( )

**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong oxidizing materials, aldehydes, halogens and concentrated mineral acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition or burning may produce carbon mono/dioxides and/or silicon oxides.

**HAZARDOUS POLYMERIZATION:**

May Occur ( )

Will Not Occur (X)

**CONDITIONS TO AVOID:** Excess heat, sparks, flames.

## **SPILL, LEAK AND DISPOSAL PROCEDURES**

**ACTION TO TAKE FOR LEAKS OR SPILLS:** (Use appropriate safety equipment). Use absorbent material to collect and contain for disposal. Contain large spills and pump into a suitable tank or vessel. Wash area with detergent solution and rinse thoroughly with water.

**DISPOSAL METHOD:** All local, state and federal regulations concerning health and pollution should be reviewed to determine approved disposal procedures.

## **SPECIAL HANDLING INFORMATION**

**VENTILATION:** Provide sufficient ambient or mechanical exhaust ventilation to maintain exposure below TLV. Provide self-contained breathing apparatus when handling drum quantities in an enclosed room.

**PROTECTIVE CLOTHING:** Clean, body-covering clothing. For drum quantities, rubber gloves, boots and apron depending upon the likely exposure or as required by company regulations.

**EYE PROTECTION:** When working with drum or bulk quantities, chemical workers' goggles are recommended. When transferring drum or bulk quantities, a full face shield is recommended.

**OTHER PROTECTIVE EQUIPMENT:** When handling or transferring large quantities of open or bulk material in an enclosed room, use self-contained breathing apparatus. Eye Fountain and Safety Shower should be available when handling or transferring large quantities of open or bulk material.

## **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Store in well ventilated areas at temperatures below 120°F and away from ignition source. Since emptied containers may retain product residues (vapor, liquid and/or solid), all hazard precautions given in this data sheet must be observed.

This data is furnished gratuitously in keeping with prevailing regulations and is independent of any sales of the product. Unelko Corporation urges each customer or recipient of this MSDS to become aware of and understand the hazards associated with the product. The reader should consult references or experts in ventilation, toxicity and fire prevention as necessary to understand and use the data contained herein. While the information is believed to be correct, Unelko Corporation accepts no responsibility for any damages resulting from the publication, use or reliance upon the data contained herein without independent verification. Since the use of this information and the conditions of the use of the product are not within the control of Unelko Corporation, it is the user's obligation to determine and observe the conditions of safe use of the product.

Last Revised 04/11/02 JHL