



NOTE: This MSDS is a discontinued item. Magnaflux does not update the MSDS for an obsolete product. This MSDS dated January 30, 1992 is the most recent MSDS available.

MATERIAL SAFETY DATA SHEET

SPOTCHECK® PENETRANT SKL-HF/S

1. **Company:** MAGNAFLUX
Address: 3624 West Lake Avenue, Glenview, Illinois 60025
Telephone No.: 847-657-5300 (Off-Hour Emergency Number - CHEMTREC - 1-800-424-9300).
Product Use: Visible inspection penetrant.
Packages: 1 gallon and 5 gallon pails, 20 and 55 gallon drums, 12 fluid ounce aerosols.
NFPA Rating: Health 1, Flammability 1, (Aerosol Flammability 4), Reactivity 0
PIN (Canada): None
Revision date: January 30, 1992

2. **HAZARDOUS INGREDIENTS**

Distillates (Petroleum), catalytic reformer fractionator residue; low boiling; CAS #68477-31-6; TLV not established, over 85%
Aerosol only: 30% Isobutane; CAS #75-28-5; OSHA PEL 1000 ppm, about 30%
Naphthalene; CAS #91-20-3; OSHA PEL 10 ppm, about 4%
Naphthalene is subject to the Reporting Requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.
Contains no other ingredient suspected of being hazardous according to information sources given in 29 CFR 1910.1200, OSHA Hazard Communication Rule.

2. **HEALTH HAZARD**

Threshold Limit Value: OSHA PEL: for oily mist, 5 mg/m³
ROUTES OF ENTRY, EFFECTS OF OVEREXPOSURE:
Inhalation: Dizziness, nausea from inhalation of spray mist from can.
Skin contact: Irritation, dissolves skin oils. Possible dermatitis on frequent or prolonged exposure
Eye contact: Moderately irritating. Rinse eyes copiously with water.
Ingestion: Low toxicity, but hazardous if aspirated into lungs during ingestion or vomiting.
Carcinogenicity: Contains no known carcinogens listed with OSHA. The International Agency for Research on Cancer Monographs, or the National Toxicology Programs Annual Report on Carcinogens.
Medical conditions known to be aggravated by exposure to product: None

3. **FIRST AID**

Inhalation: Remove to fresh air. If not breathing, call emergency vehicle immediately. Give mouth-to-mouth resuscitation. If breathing is difficult, give oxygen.
Skin Contact: Wash off in flowing water or shower. Remove contaminated clothes and wash before re-use. Use soothing lotion.
Eyes: Lift upper eyelid, depress lower eyelid, and flush eye with a steady, gentle flow of water. Roll eyeball in all directions while flushing.
Ingestion: Do not induce vomiting. If vomit is inhaled, it may cause asphyxiation. Contact physician immediately.
IMPORTANT: **POISON CONTROL CENTER NUMBER**
In all severe cases, contact physician immediately. Local telephone operators are able to furnish number of regional poison control center to assist physician.

4. **FIRE HAZARD**

Flash point: Min. 200°F (93°C) Pensky-Martens (-100°F aerosol)
Flammable limits in air: Low 1%, High 6%
Extinguishing media: Carbon dioxide, foam
Special fire fighting procedures: Keep containers cool with water spray.
Unusual fire hazards: Aerosol cans may burst at temperatures over 130°F (54°C) and spray flammable liquid into the fire.

5. **REACTIVITY HAZARDS**

Stability: Stable, except when heated to burning temperatures
Incompatibility: Strong oxidizing agents.
Hazardous Decomposition Products: If burning, smoke, soot and oxides of carbon and nitrogen

MAGNAFLUX-A DIVISION OF ILLINOIS TOOL WORKS INC.
3624 WEST LAKE AVENUE, GLENVIEW, ILLINOIS 60025 PHONE 847.657.5300 FAX 847.657.5388

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7. **SAFE HANDLING PROCEDURES**

General: Do not breathe vapors. Significant exposure can result in clumsiness and poor judgement with resulting danger to the victim and those around him. Much like ingesting too much alcohol.

Avoid frequent or prolonged exposure to skin as the solvent can irritate skin. Do not spray into flame, arcs, red hot surfaces or lighted, smoking materials, as spray may ignite.

Do not heat aerosol cans above 130°F to eliminate the possibility of their bursting and releasing unwanted spray.
Store away from heat sources to minimize the danger from exposure to fires.

Store pallets of aerosol cartons as Level 3 Aerosol (NFPA 30B).

Personal Protective Equipment: In poorly ventilated areas, such as small rooms with no windows, or in sumps or other low areas, the user should wear a respirator with chemical cartridge.

In confined, unventilated spaces, such as the inside of tanks or small compartments, the inspector should wear a full mask with separate air supply.

If hand exposure to SKL-HF/S is unavoidable, wear nitrile rubber gloves to avoid skin contact.

Wear full goggles if the application of SKL-HF/S includes splashing or the possibility of spraying into the eyes. Be sure the goggles are clean and not apt to degrade the inspection procedure.

Controls: It is preferred to use SKL-HF/S either in a spray booth or next to an exhaust vent.
General ventilation must be sufficient to keep the concentration low.

8. **DISPOSAL**

Spent Material, Mopped-Up Spills and Leaks: Incinerate or send to Waste Disposer who can incinerate it.
Aerosol Can: Empty out aerosol cans before disposal. Pressurized aerosol cans are not an acceptable waste.

9. **PHYSICAL PROPERTIES**

<i>Boiling point:</i>	400°F (-44°F for aerosol)	<i>Vapor pressure:</i>	Below 0.5 mm at 100°F (105 psi @ 75°F for aerosol)
<i>Percent volatile:</i>	None	<i>Vapor density:</i>	Over 1
<i>Density:</i>	0.97	<i>Evaporation rate:</i>	None
<i>Water solubility:</i>	0	<i>Appearance:</i>	Dark red liquid
<i>pH:</i>	Neutral		

10. **DOT SHIPPING**

Shipping name: For Bulk - Liquid Stain
For Aerosol - Consumer commodity
Marking: For Bulk - None
For Aerosol - None
Hazard Class: For Bulk - None
For Aerosol - None

11. **CERTIFIED**

SKL-HF/S is composed entirely of materials listed in the TOSCA Chemical Substance Inventory.

Date: January 30, 1992
Supercedes MSDS dated Jan. 1, 1991

By: Bruce C. Graham, Chief Chemist

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