

NOTE: SKL-SP is an obsolete, discontinued product. Magnaflux does not update MSDS for obsolete product. This MSDS dated August 15, 2001 is the most recent MSDS available. SKL-SP1 is the direct replacement product for SKL-SP. Please refer to the MSDS for SKL-SP1.

MATERIAL SAFETY DATA SHEET

SPOTCHECK PENETRANT SKL-SP

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 gallon drums, 55 gallon drums, Totes, aerosols.
NFPA Rating: Health 1, Flammability 1, (Aerosol Flammability 4), Reactivity 0
PIN (Canada): None
Revision date: August 15, 2001

2. **HAZARDOUS INGREDIENTS**

<u>Ingrdient</u>	<u>Wt./Wt. %</u>	<u>CAS #</u>	<u>TLV</u>	<u>PEL</u>	<u>LD₅₀</u>	<u>LC₅₀</u>
White mineral oil (petroleum)	60-80	8042-47-5	5 mg/m ³	5 mg/m ³	not avail.	not avail.
1,2-benzenedicarboxylic acid, dibutyl ester	10-30	84-74-2	5 mg/m ³	5 mg/m ³	8g/kg (oral/rat)	not avail.
Isobutane (propellant)	30	75-28-5	not avail.	1000 ppm	not avail.	not avail.

3. **HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW

Bland, oily liquid which may irritate the skin and eyes. Bulk material is difficult to ignite, but will burn vigorously if engulfed in fire. Aerosol is extremely flammable.

POTENTIAL HEALTH EFFECTS, AND SIGNS AND SYMPTOMS OF EXPOSURE:

Skin contact: Can irritate by removing natural skin oils on long or repeated exposures.
Eyes: May irritate.
Inhalation: Not significant at room temperatures. When heated or sprayed, vapors may cause dizziness and nausea.
Ingestion: Not significant in small (mouthful) amounts.
Medical conditions known to be aggravated by exposure to product: None

4. **FIRST AID**

Skin Contact: Wash off with soap and water. Use soothing lotion.
Eyes: Rinse carefully under upper and lower eyelids using plenty of water.
Inhalation: Remove to fresh air if dizzy or nauseated.
Ingestion: Do not induce vomiting. Accidental ingestion of a small mouthful is not expected to cause significant harm.
NOTE: In all severe cases, contact physician immediately. Local telephone operators can furnish number of regional poison control center.

5. **FIRE HAZARD**

Conditions of flammability: Aerosol: Spraying near an ignition source will ignite spray mist.
Bulk: None unless heated over 200F (93C) near ignition source.
Flash point: Min. 200F (93C) (Pensky-Martens closed cup)
Flammable limits in air: 1% to 6%
Extinguishing media: Carbon dioxide, foam
Special fire fighting procedures: Keep containers cool with water spray. Do not spray water directly on burning SKL-SP. It may float and spread the fire.
Hazardous combustion products: Smoke, soot, oxides of carbon and nitrogen.
Unusual fire hazards: Aerosol cans may burst at temperatures over 130F (54C) and spray contents into a fire.

6. **ACCIDENTAL RELEASE MEASURES**

Mop up or sweep up with absorbent. (For disposal, see Section 13.)

7. **HANDLING AND STORAGE**

Store away from heat source. Avoid eye contact. Avoid repeated or prolonged skin contact. Avoid breathing spray mist. Do not spray around arcs or flames.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Controls: None, unless sprayed. Use where ventilation will carry spray mist away from occupied areas.
Personal protection: Wear safety glasses to protect eyes. Wear nitrile rubber gloves if hand exposure is unavoidable. Respirator with filter if sprayed in enclosed unventilated space.

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9. **PHYSICAL PROPERTIES**

<i>Initial boiling point (bulk)</i>	Min. 455F (235C) (ASTM D-86)	<i>Vapor pressure:</i>	Aerosol: 60 psi @ 75F (24C) Bulk: <0.10 mm @ 70F (21C)
<i>Percent volatile:</i>	None (30% in aerosol)	<i>Vapor density:</i>	Heavier than air
<i>Density/sp. gravity:</i>	0.89	<i>Evaporation rate:</i>	Negligible
<i>Water solubility:</i>	0	<i>Appearance:</i>	Dark red oily liquid
<i>pH:</i>	Neutral	<i>Odor:</i>	Mild oily odor

10. **STABILITY AND REACTIVITY**

<i>Stability:</i>	Stable
<i>Incompatibility:</i>	None
<i>Hazardous decomposition products:</i>	Soot, oxides of carbon and nitrogen when burning
<i>Reactivity:</i>	None

11. **TOXICOLOGICAL INFORMATION**

<i>Carcinogenicity:</i>	Contains no known or suspected carcinogens listed with OSHA, IARC, NTP, or ACGIH.
<i>Threshold limited value:</i>	5 mg/m ³ for oily mist.
<i>WHMIS information (Canada):</i>	No human information is available for teratogenicity, reproductive toxicity, and mutagenicity. No reports of toxicological synerism were located. The ingredients have not been found to show skin sensitization.

12. **ECOLOGICAL INFORMATION**

No data is available on SKL-SP. It floats on water and can be skimmed off. Its low vapor pressure may exempt it from VOC restrictions. The hydrocarbon propellant is not an ozone depleter.

13. **DISPOSAL**

As a non-hazardous oil waste, incinerate or send to waste handler who can blend it into secondary fuels. Empty aerosol cans before disposal.
RCRA: U069 (as 1,2-benzenedicarboxylic acid, dibutyl ester)

14. **TRANSPORTATION**

U.S. DOT: 49 CFR 172.101 Hazardous Materials Table

	<u>1 gal, 5 gal</u>	<u>20 gal, 55 gal, & Totes</u>	<u>Aerosol</u>
<i>Proper shipping name:</i>	None, not restricted	Environmentally Hazardous Substances, RQ	Consumer commodity
<i>Hazard class or division:</i>	None	9	ORM-D
<i>Identification No.:</i>	None	UN 3082	None
<i>Packing Group:</i>	None	III	None

IATA: List of Dangerous Goods

	<u>1 gal, 5 gal</u>	<u>Bulk</u>	<u>Aerosol</u>
<i>Proper shipping name:</i>	None, not restricted	Environmentally Hazardous Substances, RQ	Aerosols, flammable
<i>Hazard class or division:</i>	None	9	2.1
<i>Identification No.:</i>	None	UN 3082	UN1950
<i>Packing Group:</i>	None	III	

IMDG: General Index

	<u>1 gal, 5 gal</u>	<u>Bulk</u>	<u>Aerosol</u>
<i>Proper shipping name:</i>	None, not restricted	(p) Environmentally Hazardous Substances, RQ	AEROSOLS
<i>Hazard class or division:</i>	None	9	2.1
<i>Identification No.:</i>	None	UN 3082	UN1950
<i>Packing Group:</i>	None	III	

15. **REGULATORY INFORMATION**

<i>TSCA:</i>	All ingredients are listed in TSCA inventory		
<i>CERCLA:</i>	1,2-benzenedicarboxylic acid, dibutyl ester	84-74-2	RQ - 10 lbs
<i>SARA TITLE III, Section 313:</i>	1,2-benzenedicarboxylic acid, dibutyl ester	84-74-2	10-30%
<i>WHMIS Class (Canada):</i>	Bulk: D-2A	Aerosol: A, B-5, D-2A	
Note: This MSDS has been prepared to meet WHMIS (Canada) requirements with the exception of using 16 headings.			

16. **OTHER INFORMATION**

<i>Revision Statement:</i>	Sections: 2, 13, 14 and 15
<i>Supersedes:</i>	MSDS dated 1/10/00
<i>Prepared by:</i>	Tamie Simmons, Manager R&D