

MATERIAL SAFETY DATA SHEET

ZYGLO[®] PENETRANT ZL-27A

1. IDENTIFICATION

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: Fluorescent inspection penetrant
Packages: 1 gallon cans, 5 gallon pails, 20 gallon and 55 gallon drums, aerosols.
NFPA Rating: Health 1, Flammability 1, (Aerosol Flammability 4), Reactivity 0
PIN: None
Revision Date: May 7, 2003

2. HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>Wt./Wt. %</u>	<u>CAS #</u>	<u>TLV</u>	<u>PEL</u>	<u>LD₅₀</u>	<u>LC₅₀</u>
White mineral oil (petroleum)	30-60	8042-47-5	not avail.	not avail.	not avail.	not avail.
Isodecyl diphenyl phosphate					15.8 g/kg (oral/rat)	2.2 mg/l [6 hr/(rat(2/6))]
Castor oil	30-60	29761-21-5	not avail.	not avail.	not avail.	not avail.
Triphenyl phosphate	10-30	8001-79-4	not avail.	not avail.	not avail.	not avail.
Isobutane (propellant)	1-2	115-86-6	3 mg/m ³	not avail.	not avail.	not avail.
	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. Difficult to ignite, but will burn vigorously, if engulfed in fire. Aerosol is extremely flammable.

POTENTIAL HEALTH EFFECTS

Skin Contact: Can irritate by removing natural skin oils on long or repeated exposures.
Eyes: May cause irritation.
Inhalation: Not significant at room temperatures. When heated or sprayed, ZL-27A 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: Bulk: Heating above 200°F (93°C) in presence of ignition sources. Aerosol: Spraying near flames or arcs will ignite the spray mist.
Flash point: Min. 200° F (93° C) (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 ZL-27A. 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 130°F (54°C) 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

Avoid breathing spray mist. Avoid eye contact. Avoid repeated or prolonged skin contact. Store away from heat source.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Controls: None, unless applied as spray. 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.

9. PHYSICAL PROPERTIES

<i>Initial boiling point (bulk):</i>	Min.455°F(235°C) (ASTM D-86)	<i>Vapor pressure:</i>	Bulk:< 0.10 mm @ 70° F (21° C) Aerosol: 60 psi @ 75°F(24°C)
<i>Percent volatile:</i>	None (30% in aerosol)	<i>Vapor density:</i>	Heavier than air
<i>Density/sp. gravity:</i>	0.96	<i>Evaporation rate:</i>	Negligible
<i>Water solubility:</i>	0%	<i>Appearance:</i>	Green oily liquid
<i>pH:</i>	Neutral	<i>Odor:</i>	Mild odor

10. **STABILITY AND REACTIVITY**

Stability: Stable
 Incompatibility: None
 Hazardous decomposition products: Soot, oxides of carbon if heated to combustion temperatures.
 Reactivity: None

11. **TOXICOLOGICAL INFORMATION**

Carcinogenicity: Contains no known or suspected carcinogens listed with OSHA, IARC, NTP, or ACGIH.
 Threshold limit value: 5 mg/m³ for oily mist
 WHMIS information (Canada): According to available information, the ingredients have not been found to show reproductive toxicity, teratogenicity, mutagenicity, skin sensitization, or synergistic toxic effects with other materials.

12. **ECOLOGICAL INFORMATION**

Because it contains 10% or more of a marine pollutant (Isodecyl Diphenyl phosphate) and 1% or more of a severe marine pollutant (Triphenyl Phosphate), ZL-27A is itself considered a marine pollutant. It floats on water and can be skimmed off. Its low bulk vapor pressure may exempt it from VOC restrictions. The hydrocarbon propellant is not an ozone depleter.

13. **DISPOSAL**

As a non-hazardous oily waste, incinerate or send to waste handler who can blend it into secondary fuels. Empty aerosol cans before disposal.
 RCRA: Not a hazardous waste
 U.S. EPA Waste Number: None

14. **TRANSPORTATION**

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

	Non-Bulk and Non-Vessel	Bulk or Vessel	Aerosols
<i>Proper shipping name:</i>	None, not restricted	Environmentally hazardous substance Liquid, n.o.s. (isodecyl diphenyl phosphate, triphenyl phosphate)	Consumer commodity
<i>Technical Name of Hazardous Component(s):</i>	None	Isodecyl Diphenyl phosphate, Triphenyl Phosphate	None
<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
<i>Other Information:</i>	None	This product contains 10% or more of a DOT Marine Pollutant (Isodecyl Diphenyl phosphate) and 1% or more of a DOT Severe Marine Pollutant (Triphenyl Phosphate).	None
IATA: List of Dangerous Goods			
<i>Proper shipping name:</i>	None, not restricted	Environmentally hazardous substance Liquid, n.o.s. (isodecyl diphenyl phosphate, triphenyl phosphate)	Aerosol, Flammable, UN 1950, 2.1
<i>Hazard class or division:</i>	None	9	2.1
<i>Identification No.:</i>	None	UN 3082	UN 1950
<i>Packing Group:</i>	None	III	None
<i>Other Information:</i>	None	This product contains 10% or more of a DOT Marine Pollutant (Isodecyl Diphenyl phosphate) and 1% or more of a DOT Severe Marine Pollutant (Triphenyl Phosphate).	None
IMDG: General Index			
<i>Proper shipping name:</i>	None, not restricted	Environmentally hazardous substance Liquid, n.o.s. (isodecyl diphenyl phosphate, triphenyl phosphate)	Aerosols, 2.1, UN 1950
<i>Hazard class or division:</i>	None	9	2.1
<i>Identification No.:</i>	None	UN 3082	UN 1950
<i>Packing Group:</i>	None	III	None
<i>Other Information:</i>	None	This product contains 10% or more of a DOT Marine Pollutant (Isodecyl Diphenyl phosphate) and 1% or more of a DOT Severe Marine Pollutant (Triphenyl Phosphate).	Each case must be labeled as a marine pollutant.

15. **REGULATORY INFORMATION**

TSCA: All ingredients are listed in TSCA inventory.
 CERCLA: Not reportable
 SARA TITLE III, Section 313: No reportable ingredients
 California Proposition 65: Contains nothing on this list
 WHMIS Class (Canada): Bulk: D-2B, Aerosol: A, B-5, D-2B
Note: This MSDS has been prepared to meet WHMIS (Canada) requirements with the exception of using 16 headings.

16. **OTHER INFORMATION**

Revision Statement: Sections: 2, 12, 14
 Supersedes: MSDS dated 10-26-01
 Prepared by: Shawn Kilty, Research Chemist

MATERIAL SAFETY DATA SHEET

ZYGLO® DEVELOPER ZP-9F

1. IDENTIFICATION

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: Penetrant inspection developer
Packages: 5 gallon pail, aerosols
NFPA Rating: Health 1 (aerosol 2), Flammability 3 (aerosol 4), Reactivity 0 (aerosol 1)
PIN (Canada)(Bulk): UN 1993
Revision Date: June 24, 2002

2. HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>Wt./Wt. %</u>	<u>CAS #</u>	<u>TLV</u>	<u>PEL</u>	<u>LD₅₀</u>	<u>LC₅₀</u>
2-propanone	40-70	67-64-1	750 ppm	750 ppm	6 g/kg (oral/rat)	not avail.
2-propanol	10-30	67-63-0	400 ppm	400 ppm	3.6 g/kg (oral/mouse)	not avail.
2,2'-Bis(Hydroxymethyl)-1,3-propanediol	10-30	115-77-5	10 mg/m ³	5 mg/m ³	23.5 g/kg (oral/mouse)	not avail.
**Carbon dioxide (propellant)	7	124-38-9	5000 ppm	5000 ppm	not avail.	not avail.
**Aerosol only						

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Extremely flammable white liquid and aerosol. Fast evaporating vapors can reach hazardous levels quickly in unventilated spaces.

POTENTIAL HEALTH EFFECTS

Skin Contact: Can irritate by removing natural skin oils on long or repeated exposures.
Eyes: Irritating, but does not damage eye tissue.
Inhalation: Causes 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 single 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: Bulk and aerosol: Ignition will occur if used near flames, arcs or other ignition sources.
Flash point: 2°F (-16°C) (Fensky-Martens closed cup).
Flammable limits in air: 2% to 15%.
Extinguishing media: Carbon dioxide, foam, water.
Special fire fighting procedures: Keep containers cool with water spray.
Hazardous combustion products: Soot, oxides of carbon.
Unusual fire hazards: Aerosol cans may burst over 130°F (54°C) and add to existing fire.

6. ACCIDENTAL RELEASE MEASURES

Turn off or remove sources of ignition. Mop up or sweep up with absorbent. (For disposal, see Section 13.)

7. HANDLING AND STORAGE

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

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Controls: Use where ventilation will carry vapors away from unoccupied 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.

9. **PHYSICAL PROPERTIES**

Initial boiling point (bulk): 135° F (57°C) (ASTM D-86) *Vapor pressure:* Bulk: 380mm @ 100°F (38°C).
Percent volatile: 85% *Vapor density:* Aerosol: 105 psi @ 75°F (24°C)
Density/sp. gravity: 0.86 *Evaporation rate:* 3
Water solubility: 100 *Appearance:* 0.4 of ether
pH: Neutral *Odor:* White liquid
Alcohol odor

10. **STABILITY AND REACTIVITY**

Stability: Stable
Incompatibility: None
Hazardous decomposition products: When burning, soot, oxides of carbon
Reactivity: None

11. **TOXICOLOGICAL INFORMATION**

Carcinogenicity: Contains no known or suspected carcinogens listed with OSHA, IARC, NTP, or ACGIH.
Threshold limit value (Bulk): 400 ppm
WHMIS information (Canada): According to available information, the ingredients have not been found to show reproductive toxicity, teratogenicity, mutagenicity, skin sensitization, or synergistic toxic effects with other materials.

12. **ECOLOGICAL INFORMATION**

No data is available on ZP-9F. 2,2'-Bis(hydroxypropyl)-1,3-propanediol dissolves in water and is biodegradable.

13. **DISPOSAL**

Send to a licensed waste facility for proper disposal.

RCRA: Hazardous waste.
U.S. EPA Waste Number: D001

14. **TRANSPORTATION**

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

	<u>Bulk</u>	<u>Aerosol</u>
<i>Proper shipping name:</i>	Flammable Liquid, n.o.s. (Isopropanol, Acetone)	Consumer commodity
<i>Hazard class or division:</i> 3	ORM-D	
<i>Identification No.:</i>	UN1993	None
<i>Packing Group:</i>	II	None

IATA: List of Dangerous Goods

	<u>Bulk</u>	<u>Aerosol</u>
<i>Proper Shipping Name:</i>	Flammable liquid, n.o.s. (Isopropanol, Acetone)	Aerosols, flammable
<i>Hazard class or division:</i> 3	2.1	
<i>Identification No.:</i>	UN1993	UN1950
<i>Packing Group:</i>	II	-

IMDG: General Index

	<u>Bulk</u>	<u>Aerosol</u>
<i>Proper shipping name:</i>	FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL, ACETONE)	AEROSOLS
<i>Hazard class or division:</i> 3.2	2.1	
<i>Identification No.:</i>	UN1993	UN1950
<i>Packing Group:</i>	II	-

15. **REGULATORY INFORMATION**

TSCA: All ingredients are listed in TSCA inventory.
CERCLA: Reportable quantity (RQ) for Acetone = 5000 lbs.
SARA TITLE III, Section 313: Acetone.
California Proposition 65: Contains nothing on this list
WHMIS Class (Canada): Bulk: B-2, D-2B - Aerosol: A, B-5, D-2B
Note: This MSDS has been prepared to meet WHMIS (Canada) requirements with the exception of using 16 headings.

16. **OTHER INFORMATION**

Revision Statement: Section 1 & 2
Supersedes: MSDS dated 4/30/02

Prepared by: Tom Strausse, Technical Services Specialist

MATERIAL SAFETY DATA SHEET

ZYGLO[®] DRY POWDER DEVELOPER ZP-4B

1. IDENTIFICATION

Company: MAGNAFLUX
Address: 3624 West Lake Avenue, Glenview, Illinois 60026
Telephone No.: 847-657-5300 (Off-Hour Emergency Number - CHEMTREC - 1-800-424-9300).
Product Use: Developer for fluorescent penetrants.
Packages: 1 pint can, 10 and 25 lb. boxes.
NFPA Rating: Health 1, Flammability 1, Reactivity 0.
PIN (Canada): None
Revision Date: October 26, 2004

2. INGREDIENTS

<u>Ingredient</u>	<u>Wt./Wt. %</u>	<u>CAS #</u>	<u>TLV</u>	<u>PEL</u>	<u>LD₅₀</u>	<u>LC₅₀</u>
Pentaerythritol	40-70	115-77-5	10 mg/m ³	5 mg/m ³	10 g/kg (oral/rat)	not avail.
Hexamethyldisilazane, silica reaction product	3-7	68909-20-6	10 mg/m ³	5 mg/m ³	2 g/kg	not avail.
Aluminum oxide	3-7	1344-28-1	10 mg/m ³	5 mg/m ³	not avail.	not avail.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Nuisance dust.

POTENTIAL HEALTH EFFECTS

Skin Contact: None
Eyes: Gritty material may scratch eyeball
Inhalation: May plug breathing passages
Ingestion: Not significant
Medical conditions known to be aggravated by exposure to product: None

4. FIRST AID

Skin Contact: None
Eyes: Rinse carefully under upper and lower eyelids using plenty of water.
Inhalation: Remove to fresh air.
Ingestion: None.

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: None
Flash point: None
Flammable limits in air: None
Extinguishing media: None
Special fire fighting procedures: None
Hazardous combustion products: None
Unusual fire hazards: Floating ZP-4B dust can be ignited by high energy arc (350 joules or watt-seconds) or temperatures higher than 383°F (195°C).

6. ACCIDENTAL RELEASE MEASURES

Sweep up. (For disposal, see Section 13).

7. HANDLING AND STORAGE

Avoid breathing dust.
Keep dry.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Controls: None.
Personal protection: Respirator with filter if used in enclosed, unventilated space.

9.	<u>PHYSICAL PROPERTIES</u>			
	<i>Initial boiling point (bulk):</i>	None	<i>Vapor pressure:</i>	None
	<i>Percent volatile:</i>	None	<i>Vapor density:</i>	Not applicable
	<i>Density/sp. gravity:</i>	0.2	<i>Evaporation rate:</i>	None
	<i>Water solubility:</i>	4%	<i>Appearance:</i>	Fluffy white dusty powder
	<i>pH:</i>	Neutral	<i>Odor:</i>	None
10.	<u>STABILITY AND REACTIVITY</u>			
	<i>Stability:</i>	Stable		
	<i>Incompatibility:</i>	Acids		
	<i>Hazardous decomposition products:</i>	If heated to combustion temperature, soot, smoke, and oxides of carbon.		
	<i>Reactivity:</i>	None		
11.	<u>TOXICOLOGICAL INFORMATION</u>			
	<i>Carcinogenicity:</i>	Contains no known or suspected carcinogens listed with OSHA, IARC, NTP, or ACGIH.		
	<i>Threshold limit value:</i>	5 mg/m; for respirable dust.		
	<i>WHMIS information (Canada):</i>	According to available information, the ingredients have not been found to show reproductive toxicity, teratogenicity, mutagenicity, skin sensitization, or synergistic toxic effects with other materials.		
12.	<u>ECOLOGICAL INFORMATION</u>			
	No data is available on ZP-4B.			
13.	<u>DISPOSAL</u>			
	Dispose of as ordinary waste.			
	<i>RCRA:</i>	Not a hazardous waste		
	<i>U.S. EPA Waste Number:</i>	None		
14.	<u>TRANSPORTATION</u>			
	U.S. DOT: 49 CFR 172.101 Hazardous Materials Table			
	<i>Proper shipping name:</i>	None, not restricted		
	<i>Hazard class or division:</i>	None		
	<i>Identification No.:</i>	None		
	<i>Packing Group:</i>	None		
15.	<u>REGULATORY INFORMATION</u>			
	<i>TSCA:</i>	All ingredients are listed in TSCA inventory.		
	<i>CERCLA:</i>	Not reportable		
	<i>SARA TITLE III, Section 313:</i>	Aluminum oxide		
	<i>California Proposition 65:</i>	Contains nothing on this list		
	<i>WHMIS Class (Canada):</i>	Not a controlled product.		
	Note: This MSDS has been prepared to meet WHMIS (Canada) requirements with the exception of using 16 headings.			
16.	<u>OTHER INFORMATION</u>			
	<i>Revision Statement:</i>	Sections: 2, 14		
	<i>Supersedes:</i>	MSDS dated 10/26/01		
	<i>Prepared by:</i>	Tamie Simmons, R&D Manager		

3624 WEST LAKE AVENUE GLENVIEW, ILLINOIS 60026 TEL (847) 657-5300 FAX (847) 657-5388

www.magnaflex.com

MATERIAL SAFETY DATA SHEET

SPOTCHECK® CLEANER/REMOVER SKC-S

1. IDENTIFICATION

Company: MAGNAFLUX
Address: 3624 West Lake Avenue, Glenview, Illinois 60026
Telephone No.: 847-657-5300 (Off-Hour Emergency Number - CHEMTREC - 1-800-424-9300).
Product Use: Wipe on solvent cleaner/remover for penetrant inspection
Packages: 1 gallon can, 5 gallon pail, 55 gallon drums, aerosols
NFPA Rating: Health 1, Flammability 3, Reactivity 0
PIN (Canada): Bulk: UN1268
Revision Date: October 26, 2004

2. HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>Wt./Wt. %</u>	<u>CAS #</u>	<u>TLV</u>	<u>PEL</u>	<u>LD₅₀</u>	<u>LC₅₀</u>
Light aliphatic solvent naphtha	60-100	64742-89-8	300ppm (8 hr.TWA)	not avail.	5 g/kg (oral/rat)	3400 ppm (4hrs/rat)
Carbon dioxide propellant (Aerosol Only)	3-7	124-38-9	not avail.	5000 ppm	not avail.	not avail.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Flammable liquid and aerosol. Vapor may cause flash fire. Harmful or fatal if swallowed. Mist or vapor may irritate the respiratory tract. Liquid contact may cause eye and skin irritation. Over-exposure may cause central nervous system (CNS) depression and target organ effects. Spills may create a slipping hazard.

POTENTIAL HEALTH EFFECTS & SIGNS AND SYMPTOMS OF EXPOSURE:

Skin Contact: Irritating to skin. Repeated exposure may cause skin dryness or cracking.
Eyes: Vapors may be irritating to the eye.
Inhalation: Vapors expected to be slightly irritating. Vapors may cause drowsiness and dizziness.
Ingestion: Harmful: may cause lung damage if swallowed.
Medical conditions known to be aggravated by exposure to product: Pre-existing medical conditions of the following organ(s) or organ system(s) may be aggravated by exposure to this material: Eyes, Skin, Respiratory system.

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. Rest eyes for 30 minutes. If redness, burning, blurred vision, or swelling persist, transport to the nearest medical facility for additional treatment.
Inhalation: Remove to fresh air if dizzy or nauseated. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
Ingestion: Do not induce vomiting. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

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: Bulk and aerosol: Readily ignited in presence of ignition sources.
Flash point: Min. 57°F (14°C) (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 SKC-S. It will float and spread the fire.
Hazardous combustion products: Smoke, soot, oxides of carbon.
Unusual fire hazards: Aerosol cans may burst if heated above 130°F (54°C) and spray contents into a fire.

6. ACCIDENTAL RELEASE MEASURES

Mop up or sweep up with absorbent. Avoid contact with spilled or released material. Immediately remove all contaminated clothing. (For disposal, see Section 13.)

7. HANDLING AND STORAGE

Avoid eye contact. Avoid repeated or prolonged skin contact. Avoid breathing spray mist. Do not spray near arcs or flames. Use only in well ventilated areas. Wash thoroughly after handling.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**
Controls: 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 solvent vapor absorbing cartridge if used in enclosed, unventilated space.
9. **PHYSICAL PROPERTIES**
Initial boiling point (bulk): Min. 245°F (118°C) (ASTM D-86) *Vapor pressure:* 12 and 16 oz. Aerosol: 105psi @ 75°F(24°C)
Bulk: 1.5 – 2.0 kPa at 20°C/68.0°F
Percent volatile: 99.9 (EPA Method 24) *Vapor density:* 4.1
Density/sp. gravity: 0.76 *Evaporation rate:* Fast
Water solubility: 0 *Appearance:* Clear, colorless liquid
pH: Neutral *Odor:* Naphtha odor
VOC 100%
10. **STABILITY AND REACTIVITY**
Stability: Stable under normal conditions of use
Incompatibility: Avoid heat, sparks, open flames and other ignition sources. Avoid strong oxidizing agents.
Hazardous decomposition products: A complex mixture of airborne solids, liquids, and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.
Reactivity: None
11. **TOXICOLOGICAL INFORMATION**
Carcinogenicity: Contains no known or suspected carcinogens listed with OSHA, IARC, NTP, or ACGIH.
Threshold limit value: 300 ppm
WHMIS information (Canada): According to available information, the ingredients have not been found to show reproductive toxicity, teratogenicity, mutagenicity, skin sensitization, or synergistic toxic effects with other materials.
12. **ECOLOGICAL INFORMATION**
No data is available on SKC-S. It floats on water and evaporates away. It is 100% VOC.
13. **DISPOSAL**
As hazardous waste, send to licensed waste handler who can blend it into secondary fuels.
RCRA: Hazardous waste.
U.S. EPA Waste Number: D001
14. **TRANSPORTATION**
U.S. DOT: 49 CFR 172.101 Hazardous Materials Table
- | | | |
|----------------------------------|-------------------------------|--------------------|
| | <u>Non-Aerosol</u> | <u>Aerosol</u> |
| <i>Proper shipping name:</i> | Petroleum distillates, n.o.s. | Consumer Commodity |
| <i>Hazard class or division:</i> | 3 | ORM-D |
| <i>Identification No.:</i> | UN1268 | None |
| <i>Packing Group:</i> | II | None |
-
- | | | |
|--------------------------------------|-------------------------------|---------------------|
| | <u>Non-Aerosol</u> | <u>Aerosol</u> |
| <i>IATA: List of Dangerous Goods</i> | | |
| <i>Proper shipping name:</i> | Petroleum distillates, n.o.s. | Aerosols, flammable |
| <i>Hazard class or division:</i> | 3 | 2.1 |
| <i>Identification No.:</i> | UN1268 | UN1950 |
| <i>Packing Group:</i> | II | - |
-
- | | | |
|----------------------------------|-------------------------------|----------------|
| | <u>Non-Aerosol</u> | <u>Aerosol</u> |
| <i>IMDG: General Index</i> | | |
| <i>Proper shipping name:</i> | PETROLEUM DISTILLATES, N.O.S. | AEROSOLS |
| <i>Hazard class of division:</i> | 3.2 | 2.1 |
| <i>Identification No.:</i> | UN1268 | UN1950 |
| <i>Packing Group:</i> | II | - |
14. **REGULATORY INFORMATION**
TSCA: All ingredients are listed in TSCA inventory.
Canadian DSL: All ingredients are listed in the Canadian DSL
CERCLA: VM&P Naphtha (64742-89-8) Reportable Quantity 66,667 lbs.
SARA TITLE III, Section 313: Xylene, Mixed Isomer (1330-20-7) <0.13%; meta-Xylene (108-38-3) < 0.05%; Ethylbenzene (100-41-4) < 0.03%; Benzene (71-43-2) <0.005%; Toluene (108-88-3) <0.01%
California Proposition 65: Warning: This material may contain trace amounts of chemicals known to the state of California to cause cancer and/or birth defects and/or reproductive harm.
WHMIS Class (Canada): Non-Aerosol: B-2, D-2B; Aerosol: A, B-5, D-2B
Note: This MSDS has been prepared to meet WHMIS (Canada) requirements with the exception of using 16 headings.
15. **OTHER INFORMATION**
Revision Statement: Updated all sections
Supersedes: April 22, 2002
Prepared by: Tamie Simmons, Research Manager

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