MATERIAL SAFETY DATA SHEET
May be used to comply with OSHA's Hazard Communication Standard, 29CFR 1910.2100.
U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration
(Non-Mandatory Form)

016-NDT-STD/NUC-PENETRANT(AEROSOL) (OKI BERING PT.# 0-1004-95)

KCI, INC.
3710 N. DAVIDSON STREET
CHARLOTTE, N.C. 28205
CHEMTREC (24-HOUR) 800-424-9300
INFORMATION 704-372-8435
DATE PREPARED: JANUARY 10, 2011

SECTION II-HAZARDOUS INGREDIENTS/IDENTITY INFORMATION
Hazardous components CAS# OSHA PEL ACGIH TLV % (optional)
This product is not regulated under the OSHA Hazard Communication
Standard, 29CFR 1910.1200 or S.A.R.A. Title III.
HAZARDOUS COMPONENTS CAS# OSHA PEL ACGIH TLV OTHER %
KEROSENE 8008-20-6 400PPM 80-90
PROPANE/ISOBUTANE 74-98-6 1000PPM 10-20
KEROSENE CONTAINS 0.5-1.5% XYLENE MIX (1330-20-7), 0.5-1.5% NAPHTHALENE (91-20-3)
0.4-1.2% BIPHENYL (92-52-4) WHICH ARE SUBJECT TO THE REPORTING REQUIREMENTS
OF SECTION 313 OF SARA TITLE III.

SECTION III-PHYSICAL/CHEMICAL CHARACTERISTICS
Boiling Point: -42F TO 350F Specific Gravity (H2O=1) .8
Vapor Pressure: N/A Melting Point: N/A
Vapor Density: 4.0 Evaporation Rate: <1
(BUTYL=1)

Solubility in Water: Negative.
Appearance and Odor: Red/solvent odor.

SECTION IV-FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) Flammable Limits LEL VEL
-156°F (TCC) % BY VOLUME 2.3 9.5

Extinguishing Media: Water, Carbon Dioxide, Foam, Dry Chemical
Special Firefighting Procedures: A self-contained breathing apparatus
recommended for firefighters.
Aerosol cans may rupture when heated.

MSDS01009
SECTION V-REACTIVITY DATA

Stability

Unstable: Conditions to Avoid
High temperatures.

Stable: X

Incompatibility (Materials to Avoid)
Avoid strong oxidizers and reducing agents.

Hazardous Decomposition or Byproducts
Thermal decomposition may yield carbon monoxide, water, oxides of
nitrogen, and free aromatic amines.

Hazardous Polymerization: Conditions to Avoid
Will not occur None known.

SECTION VI-HEALTH HAZARD DATA

Route(s) of Entry: Inhalation: YES Skin: YES Ingestion: YES

Health Hazards (Acute and Chronic)

Acute—May cause dizziness or narcosis in high vapor concentrations.
Will cause defatting of the skin.

Chronic—Long term exposure to high concentrations of vapor may cause lung,
liver or kidney damage. The solvents listed have been reported to
affect the central nervous system.

Carcinogenicity: No NTP: N/A IARC Monographs: N/A OSHA: No

Effects of overexposure
Ingestion: May cause gastrointestinal irritation.
Eye Contact: May cause irritation (redness, tearing, stinging.)
Inhalation: May cause mild to severe irritation of mucous membranes.
Skin Contact: May cause redness, itching and irritation upon prolonged contact.

Emergency First Aid Procedures:
Eyes: flush eyes with water for
15 minutes. Skin: wash with soap
& water. Inhalation: remove to
fresh air. Call physician if ingested.
SECTION VII—PRECAUTIONS FOR SAFE HANDLING AND USE
Steps to Be Taken in Case Material is Released or Spilled:
Wash down with water or absorb with clay.

Waste Disposal Method:
Dispose of in accordance with local, state, and federal regulations.

Precautions to Be Taken in Handling and Storing:
Keep away from heat and flames. Store at temperatures below 120°F.

Other Precautions:
When spraying more than one can continuously use NIOSH respirator.

SECTION VIII—CONTROL MEASURES
Respiratory Protection (Specify type)
Self-contained breathing apparatus if above TLV.

Ventilation:
Local Exhaust—YES Special—N/A
Mechanical—N/A Other—N/A

Protective Gloves—Rubber
Eye Protection—Wear goggles for splash protection.

Other Protective Clothing:
As necessary to prevent prolonged personal contact.

Work/Hygienic Practices:
Water for flushing should be available. Do not smoke while using. Wash skin after use with soap and water.
<table>
<thead>
<tr>
<th>Chemical</th>
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<tbody>
<tr>
<td>KEROSENE</td>
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<td>PROPANE</td>
<td>CAS#74-98-6</td>
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<td>NAPHTHALENE</td>
<td>CAS# 91-20-3</td>
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<td>XYLENE MIX</td>
<td>CAS#1330-20-7</td>
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<td>N-BUTANE</td>
<td>CAS#106-97-8</td>
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</table>

**NFPA RATING**

- HEALTH: 1
- FLAMMABILITY: 4
- REACTIVITY: 0
- OTHER: 0