

MATERIAL SAFETY DATA SHEET
May be used to comply with
OSHA's Hazard Communication
Standard, 29 CFR 1910.2100.

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health
Administration (Non-Mandatory Form)

011-FLAME CUTTING CLEANER

KCI, INC.
 3710 N. DAVIDSON STREET
 CHARLOTTE, N.C. 28205

CHEMTREC (24-HOUR) 800-424-9300
INFORMATION 704-372-8435
DATE PREPARED: JULY 14, 1999.

SECTION II-HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous components	CAS#	OSHA PEL	ACGIH TLV	% (optional) <input type="checkbox"/>
*ISOPROPYL ALCOHOL	67-63-0	400 ppm	400 ppm	< 20% <input type="checkbox"/>
PROPANE	74-98-6	1000 ppm	NOT EST.	<input type="checkbox"/>
BUTANE	106-97-8	NOT EST.	800 ppm	<input type="checkbox"/>
*2-BUTOXYETHANOL	111-76-2	50 ppm	25 ppm (SKIN)	< 5% <input type="checkbox"/>
*AMMONIA	7664-41-7	50 ppm	25 ppm	< 1% <input type="checkbox"/>

*SEE ATTACHED FOR SARA TITLE III NOTIFICATION AND ADDITIONAL
HEALTH DATA.

SECTION III-PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: NOT EST. Specific Gravity (H2O=1): 0.98-1.0
Vapor Pressure: (mm HG): 46 Melting Point: N/A
Vapor Density: N/A Evaporation Rate: SLOWER
(Butyl Acetate=1)

Solubility in Water: Infinite.
Appearance and Odor: Clear, blue-colored liquid; pleasant odor

SECTION IV-FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL <input type="checkbox"/>
NON-FLAMMABLE	NOT EST.	N/A	N/A <input type="checkbox"/>

Extinguishing Media: Carbon dioxide, dry chemical or foam.
Special Firefigting Procedures: Pressure-demand, self-contained protection
should be provided for protection. Storage
containers exposed to fire should be kept
cool with water.

Unusual Fire and Explosion Hazards: Product contains extremely
flammable propellent.

SECTION V-REACTIVITY DATA

Stability: Unstable Conditions to Avoid

Stable X Open flame.

Incompatibility(Materials to Avoid)

Strong oxidizers. □

Hazardous Decomposition or Byproducts:

CO, CO2

Hazardous May Occur: Condition to Avoid

Polymerization None

Will Not Occur:X

SECTION VI-HEALTH HAZARD DATA

Routes of Entry:Inhalation: Yes Skin:No Ingestion: No □

Health Hazards(Acute and Chronic)

May cause irritation in eyes. □

Exposure of skin and eyes may produce irritation. Product
is moderately alkaline. □

Carcinogenicity: Not currently on any lists.(IARC,NTP,OSHA) □

Signs and Symptoms of Exposure:

High concentrations may cause nasal and respiratory
irritation □

Medical Conditions □

Generally Aggravated by Exposure: None □

Emergency First Aid Procedures: Eyes-flush with water for
15 minutes.Skin-wash area with soap & water. □

SECTION VII-PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material Is Release or Spilled

For minor spills, wash away with water to sewer. For major spills, absorb in suitable absorbent and shovel into suitable waste container.

Waste Disposal Method:

Dilute with water and dispose through sewer by first neutralizing with mild acetic acid. This product contains no toxic chemicals and can be disposed.

Precautions to Be Taken in Handling and Storage:

Contents are pressurized. Do not leave exposed to temperatures greater than 120 F. Keep out of reach of children.

Other Precautions:

Keep container closed when not in use. Remove spills promptly as they make floors slippery.

SECTION VIII-CONTROL MEASURES

Respiratory Protection (specify Type)

Not normally required when work area is ventilated.

Ventilation: Local Exhaust-Adequate

Special-N/A

Mechanical (General)-N/A

Other-N/A

Protective Gloves-None required.

Eye Protection-Face shield and goggles should be worn.

Other Protective Clothing or Equipment:N/A

Work/Hygienic Practices:Wash hands after use.

SARA TITLE III NOTIFICATION/INFORMATION

All chemical compounds marked with an asterisk() are toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Super Fund Amendments and Reauthorization Act(SARA) of 1986 and 40 CFR Part 372. You must notify each person to whom this mixture or trade name product is sold. This statement must remain a part of this Material Safety Data Sheet. This statement must not be detached. Any copy or redistribution of this Material Safety Data Sheet shall include this statement.

NEW JERSEY RIGHT TO KNOW INFORMATION

(5 MOST PREDOMINANT INGREDIENTS/HAZARDOUS & NON-HAZARDOUS)

ISOPROPYL ALCOHOL	CAS# 67-63-0
2-BUTOXYETHANOL	CAS# 111-76-2
PROPANE	CAS#74-98-6
BUTANE	CAS# 106-97-8
AMMONIA	CAS#7664-41-7

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM	HAZARD RATING
HEALTH-2	4-SEVERE HAZARD
FLAMMABILITY-1	3-SERIOUS HAZARD
REACTIVITY-1	2-MODERATE HAZARD
	1-SLIGHT HAZARD
	0-MINIMAL HAZARD

NATIONAL FIRE PROTECTION ASSOCIATION	4-SEVERE HAZARD
HEALTH-2	3-SERIOUS HAZARD
FLAMMABILITY-1	2-MODERATE HAZARD
REACTIVITY-1	1-SLIGHT HAZARD
OTHER-NONE	0-MINIMAL HAZARD