

***M S D S******Material Safety Data Sheet***

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## Phenol, 88-90 %, Liquefied

### SECTION 1 PRODUCT IDENTIFICATION

NAME: Phenol, 88-90%, Liquefied  
EKI ORDER NUMBERS: 6464, 6466  
SYNONYMS: Carbohcic Acid  
CAS NO: 108-95-2  
FORMULA: C<sub>6</sub>H<sub>5</sub>OH in H<sub>2</sub>O  
REVISION DATE: 8 October 2006

\*\*\*LABEL HAZARD STATEMENT AND PRECAUTIONS\*\*\*

DANGER. POISON. MAY BE FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. CAUSES SEVERE BURNS. AFFECTS CNS, LIVER AND KIDNEYS. COMBUSTIBLE LIQUID AND VAPOR. Do not get in eyes, on skin, on clothing. Do not breathe vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Keep away from heat and flame.

### SECTION 2 HAZARDOUS INGREDIENTS / EXPOSURE LIMITS

INGREDIENT/CAS NO	OSHA PEL	ACGIH TLV
Phenol/108-95-2	5 ppm TWA Skin	5 ppm TWA Skin

Phenol, ~89%, is subject to the reporting requirements of SARA313 and 40CFR372.

### SECTION 3 PHYSICAL / CHEMICAL CHARACTERISTICS

SOLUBILITY IN WATER: 6.7%	BOILING POINT (C): 182 C
VAPOR PRESSURE (mm Hg): 0.4	VAPOR DENSITY: 3.2
SPECIFIC GRAVITY: 1.06	MELTING POINT (C): N/A
EVAPORATION RATE: <0.01	
APPEARANCE AND ODOR: Colorless to light pink liquid. Characteristic odor of phenol.	

### SECTION 4 FIRE / EXPLOSION HAZARD DATA

FLASH POINT (C): 79 C  
AUTOIGNITION TEMPERATURE (C): 715  
FLAMMABLE LIMITS (%) UEL: 8.6 LEL: 1.3  
EXTINGUISHING MEDIA: Water spray, dry chemical, "alcohol foam" or CO<sub>2</sub>.  
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive-pressure mode.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: N/I



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## SECTION 5 REACTIVITY DATA

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STABILITY: Stable

CONDITIONS TO AVOID: Heat, flame, ignition sources.

MATERIALS TO AVOID: Alkyl benzene sulfonic acids, calcium hypochlorite, formaldehyde, mineral acids, many others.

HAZARDOUS DECOMPOSITION PRODUCTS: CO<sub>2</sub>, CO, hydrocarbons.

HAZARDOUS POLYMERIZATION: Does not occur.

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## SECTION 6 HEALTH HAZARD DATA

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ROUTES OF ENTRY AND EFFECTS OF OVEREXPOSURE

INHALATION: Causes irritation, respiratory burns, may be fatal.

SKIN CONTACT: Causes severe irritation, burns.

EYE CONTACT: Causes severe irritation, possible permanent damage and blindness.

SKIN ABSORPTION: Irregular heart rate, low blood pressure, difficult breathing, cough, discoloration of skin.

INGESTION: Causes burns to mouth, throat, G.I. tract. May be fatal.

CHRONIC: Eye and skin discoloration and acute symptoms as above.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Kidney and liver disease.

CARCINOGENICITY: IARC-3. Unclassifiable as to carcinogenicity in humans.

### \*\*\*\*FIRST AID PROCEDURES\*\*\*\*

#### \*\* START FIRST AID AND GET IMMEDIATE MEDICAL ATTENTION \*\*

EYE CONTACT: Immediately flush with plenty of water for at least 15 minutes, separating eyelids occasionally.

SKIN CONTACT: Immediately flush with plenty of water for at least 15 minutes while removing contaminated garments. Apply polyethylene glycol.

INHALATION: Immediately flush with plenty of water for at least 15 minutes while removing contaminated garments.

INGESTION: If conscious, immediately administer castor oil or other vegetable oil, 15-30cc. Induce vomiting immediately as directed by medical personnel.

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## SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE

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STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED: Ventilate area and remove all sources of ignition. Absorb spill and transfer to closed container. Flush spill area with water.

WASTE DISPOSAL METHOD: Dispose in accordance with all applicable federal, state, and local environmental regulations.

STORAGE: Store tightly closed in cool, ventilated place, away from sources of ignition.

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## SECTION 8 CONTROL MEASURES

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VENTILATION: Local preferred.

RESPIRATORY PROTECTION: If limits are exceeded, NIOSH approved ORGANIC VAPOR respirator.

EYE PROTECTION: Chemical goggles and/or face shield.

SKIN PROTECTION: Neoprene gloves, lab coat and impervious apron.

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