

***MSDS******Material Safety Data Sheet***

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**Chloroform****SECTION 1 PRODUCT IDENTIFICATION**

NAME: Chloroform  
 EKI ORDER NUMBERS: 3100, 3101, 3115  
 SYNONYMS: Trichloromethane  
 CAS NO: 67-66-3  
 FORMULA: CHCl<sub>3</sub>  
 REVISION DATE: 19 March 2004

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

DANGER! MAY BE FATAL IF INHALED OR SWALLOWED. CAUSES SKIN AND EYE IRRITATION. POSSIBLE CANCER HAZARD. MAY CAUSE CANCER BASED ON ANIMAL DATA. Risk of cancer depends on duration and level of exposure. Avoid breathing vapor. Avoid contact with skin, eyes and clothing. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

**SECTION 2 HAZARDOUS INGREDIENTS / EXPOSURE LIMITS**

INGREDIENT/CAS NO	OSHA PEL	ACGIH TLV
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Chloroform/67-66-3	50 ppm CEIL	10 ppm TWA

Chloroform is subject to the reporting requirements of SARA313 and 40CFR372.

**SECTION 3 PHYSICAL / CHEMICAL CHARACTERISTICS**

SOLUBILITY IN WATER: Slight	BOILING POINT (C): 61
VAPOR PRESSURE (mm Hg): 159	VAPOR DENSITY: 4.01
SPECIFIC GRAVITY: 1.48	MELTING POINT (C): -64
EVAPORATION RATE: 0.09	
APPEARANCE AND ODOR: Clear, colorless liquid. Characteristic odor.	

**SECTION 4 FIRE / EXPLOSION HAZARD DATA**

FLASH POINT (C): Not flammable  
 AUTOIGNITION TEMPERATURE (C): N/I  
 FLAMMABLE LIMITS (%) UEL: N/I LEL: N/I  
 EXTINGUISHING MEDIA: Suitable for surrounding fire.  
 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: Use water to keep containers cool.

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## SECTION 5 REACTIVITY DATA

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STABILITY: Stable

CONDITIONS TO AVOID: Heat, flame

MATERIALS TO AVOID: Strong bases and oxidizers, alkali metals.

HAZARDOUS DECOMPOSITION PRODUCTS: Chlorine, HCl, phosgene.

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 headache, vomiting, dizziness, drowsiness, upper respiratory irritation. May cause unconsciousness. May be fatal.

SKIN CONTACT: Causes irritation, contact dermatitis.

EYE CONTACT: Causes irritation.

SKIN ABSORPTION: Is absorbed rapidly.

INGESTION: Nausea, vomiting, G.I. irritation, burns to mouth and throat. May be fatal.

CHRONIC: Kidney and liver damage.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Kidney, heart, liver and skin disorders.

CARCINOGENICITY: NTP carcinogen.

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

EYE CONTACT: Immediately flush with plenty of water for at least 15 minutes.

SKIN CONTACT: Immediately flush with water.

INHALATION: ACT PROMPTLY. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

INGESTION: Get immediate medical attention. Do NOT induce vomiting. If vomiting occurs, keep head between knees.

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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. Absorb with inert material and containerize for disposal.

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

STORAGE: Store tightly closed in a cool place.

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## SECTION 8 CONTROL MEASURES

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VENTILATION: Local preferred.

RESPIRATORY PROTECTION: Recommended if TLV exceeded.

EYE PROTECTION: Chemical splash goggles and/or full face shield.

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

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