

supply. In confined or poorly ventilated areas, use an approved positive-pressure supplied-air respirator.

EXPOSURE GUIDELINE(S): Trichloroethylene: ACGIH TLV is 50 ppm TWA, 100 ppm STEL, A5. OSHA PEL is 50 ppm TWA, 200 ppm STEL. PELs are in accord with those recommended by OSHA, as in the 1989 revision of PELs.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colorless liquid.
ODOR: Irritating odor at high concentrations.
VAPOR PRESSURE: 60 mmHg @ 20C
VAPOR DENSITY: 4.53
BOILING POINT: 189F (87C)
SOLUBILITY IN WATER: 0.1 g/100g @ 25C
SPECIFIC GRAVITY: 1.46 @ 25/25C

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under recommended storage conditions. See storage section.

CONDITIONS TO AVOID: Avoid direct sunlight or ultraviolet sources. Avoid open flames, welding arcs, or other high temperature sources which induce thermal decomposition. High energy sources such as welding arcs can cause degradation generating chlorine, hydrogen chloride and possible phosgene, and should be avoided.

INCOMPATIBILITY WITH OTHER MATERIALS: Avoid contact with metals such as: aluminum powders, magnesium powders, potassium, sodium, and zinc powder. Avoid unintended contact with amines. Avoid contact with strong bases and strong oxidizers. Avoid prolonged contact with or storage in aluminum or its alloys. Dichloroacetylene may be formed by reaction with strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition products may include and are not limited to hydrogen chloride and trace amounts of chlorine and phosgene.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1)

SKIN: The LD50 for skin absorption in rabbits is approx. 10,000 mg/kg.

INGESTION: The oral LD50 for rats is 4920 mg/kg.

INHALATION: The LC50 for rats is 12,500 ppm for 4 hours.

MUTAGENICITY (EFFECTS ON GENETIC MATERIAL): For the minor component(s) butylene oxide in vitro mutagenicity studies were positive. Animal mutagenicity studies were negative. For

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