

# **Right to Know Hazardous Substance Fact Sheet**



Common Name: ALDOL

Synonyms: Acetaldol; 3-Hydroxybutanal

CAS No: 107-89-1

Molecular Formula: C<sub>4</sub>H<sub>8</sub>O<sub>2</sub> RTK Substance No: 0032

Description: Thick, colorless to pale yellow liquid

HAZARD DATA		
Hazard Rating 3 - Health	Firefighting  COMBUSTIBLE LIQUID  Use dry chemical, CO <sub>2</sub> , water spray or alcohol-	Reactivity  Aldol reacts violently with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES,
2 - Fire 1 - Reactivity DOT#: UN 2839	resistant foam as extinguishing agents. POISONOUS GASES ARE PRODUCED IN FIRE. Use water spray to keep fire-exposed containers cool.	CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE).  Aldol reacts with METALS to form flammable and explosive <i>Hydrogen gas</i> .
ERG Guide #: 153 Hazard Class: 6.1 (Toxic)		

### SPILL/LEAKS

#### **Isolation Distance:**

Spill: 50 meters (150 feet) Fire: 800 meters (1/2 mile)

Absorb liquids in dry sand, earth, or a noncombustible material and place into sealed containers for disposal.

## PHYSICAL PROPERTIES

Flash Point: 150 °F (66 °C) **Auto Ignition Temp:** 482 °F (250 °C)

Vapor Density: 3 (air = 1)

Vapor Pressure: 21 mm Hg at 68 °F (20 °C)

1.1 (water = 1)**Specific Gravity:** 

Water Solubility: Soluble

**Boiling Point:** 174 ° to 176 °F (79 ° to 80 °C)

**Molecular Weight:** 

### **EXPOSURE LIMITS**

No occupational exposure limits have been

established for Aldol.

### PROTECTIVE EQUIPMENT

Gloves: Butyl and Viton/Butyl (>8-hr breakthrough for Aldehydes,

aliphatic)

Coveralls: Tychem® BR, CSM and TK (>8-hr breakthrough for

Aldehydes, aliphatic)

Respirator: **SCBA** 

### **HEALTH EFFECTS**

Eyes: Irritation Skin: Irritation

Inhalation: Headache, dizziness, and passing out

### FIRST AID AND DECONTAMINATION

**Remove** the person from exposure.

Flush eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn.

Quickly remove contaminated clothing and wash contaminated skin with large amounts of water.

**Begin** artificial respiration if breathing has stopped and CPR if necessary.

Transfer promptly to a medical facility.