

CHEM009

I.Ba

T. Baker Chemical Co.

School Lane Phillipsburg, N.J. 08865  
Our Emergency Telephone -- (201) 859-2151Chemtrec # (800) 424-9300  
National Response Center # (800) 424-8802MATERIAL  
SAFETY DATA  
SHEETA0446 -01  
Effective: 10/11/85

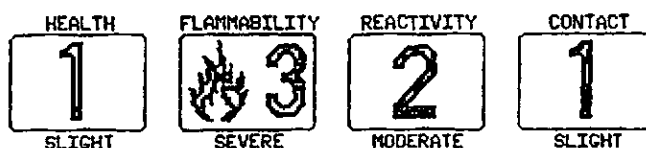
Acetone

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## SECTION I - PRODUCT IDENTIFICATION

Product Name: Acetone  
 Formula:  $(CH_3)_2CO$   
 Formula Wt: 58.08  
 CAS No.: 00067-64-1  
 NIOSH/RTECS No.: AL3150000  
 Common Synonyms: Dimethyl Ketone; Methyl Ketone; 2-Propanone  
 Product Codes: 9010,9006,9254,9009,9001,9004,5356,A134,9007,9005,9008,9002

## PRECAUTIONARY LABELLING

BAKER SAF-T-DATA<sup>TM</sup> System

## Laboratory Protective Equipment



## Precautionary Label Statements

DANGER!  
 EXTREMELY FLAMMABLE  
 HARMFUL IF SWALLOWED OR INHALED  
 CAUSES IRRITATION

Keep away from heat, sparks, flame. Avoid contact with eyes, skin, clothing. Avoid breathing vapor. Keep in tightly closed container. Use with adequate ventilation. Wash thoroughly after handling. In case of fire, use water spray, alcohol foam, dry chemical, or carbon dioxide. Flush spill area with water spray.

## SECTION II - HAZARDOUS COMPONENTS

Component	%	CAS No.
Acetone	90-100	67-64-1

## SECTION III - PHYSICAL DATA

Boiling Point: 56°C ( 133°F) Vapor Pressure(mmHg): 181

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### SECTION III - PHYSICAL DATA (Continued)

Melting Point: -95°C ( -139°F)

Vapor Density (air=1): 2

Specific Gravity: 0.79  
(H<sub>2</sub>O=1)

Evaporation Rate: 5.6  
(Butyl Acetate=1)

Solubility (H<sub>2</sub>O): Complete (in all proportions) % Volatiles by Volume: 100

Appearance & Odor: Clear, colorless liquid with fragrant sweet odor.

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: -18°C ( 0°F) NFPA 704M Rating: 1-3-0

Flammable Limits: Upper - 13 % Lower - 2 %

#### Fire Extinguishing Media

Use alcohol foam, dry chemical or carbon dioxide.  
(Water may be ineffective.)

#### Special Fire-Fighting Procedures

Firefighters should wear proper protective equipment and self-contained (positive pressure if available) breathing apparatus with full facepiece. Move exposed containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

#### Unusual Fire & Explosion Hazards

Vapors may flow along surfaces to distant ignition sources and flash back. Closed containers exposed to heat may explode. Contact with strong oxidizers may cause fire.

### SECTION V - HEALTH HAZARD DATA

Threshold Limit Value (TLV/TWA): 1780 mg/m<sup>3</sup> ( 750 ppm)

Short-Term Exposure Limit (STEL): 2375 mg/m<sup>3</sup> (1000 ppm)

Toxicity: LD<sub>50</sub> (oral-rat)(mg/kg) - 9750

LD<sub>50</sub> (ipr-mouse)(g/kg) - 1297

#### Effects of Overexposure

Contact with skin has a defatting effect, causing drying and irritation. Overexposure to vapors may cause irritation of mucous membranes, dryness of mouth and throat, headache, nausea and dizziness.



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## SECTION V - HEALTH HAZARD DATA (Continued)

### Emergency and First Aid Procedures

If swallowed, if conscious, immediately induce vomiting.  
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.  
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Flush skin with water.

## SECTION VI - REACTIVITY DATA

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions to Avoid: heat, flame, sources of ignition

Incompatibles: sulfuric acid, nitric acid, strong oxidizing agents

## SECTION VII - SPILL AND DISPOSAL PROCEDURES

### Steps to be taken in the event of a spill or discharge

Wear suitable protective clothing. Shut off ignition sources; no flares, smoking, or flames in area. Stop leak if you can do so without risk. Use water spray to reduce vapors. Take up with sand or other non-combustible absorbent material and place into container for later disposal. Flush area with water.

J. T. Baker Solusorb<sup>R</sup> solvent adsorbent is recommended for spills of this product.

### Disposal Procedure

Dispose in accordance with all applicable federal, state, and local environmental regulations.

EPA Hazardous Waste Number: U002 (Toxic Waste)

## SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT

Ventilation: Use general or local exhaust ventilation to meet TLV requirements.

Respiratory Protection: Respiratory protection required if airborne concentration exceeds TLV. At concentrations up to 5000 ppm, a gas mask with organic vapor cannister is recommended. Above this level, a self-contained breathing apparatus with full face shield is advised.

Eye/Skin Protection: Safety glasses with sideshields, polyvinyl acetate gloves are recommended.

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## SECTION IX - STORAGE AND HANDLING PRECAUTIONS

SAF-T-DATA<sup>TM</sup> Storage Color Code: Red

### Special Precautions

Bond and ground containers when transferring liquid. Keep container tightly closed. Store in a cool, dry, well-ventilated, flammable liquid storage area.

## SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

### DOMESTIC (D.O.T.)

Proper Shipping Name	Acetone
Hazard Class	Flammable liquid
UN/NA	UN1090
Labels	FLAMMABLE LIQUID

### INTERNATIONAL (I.M.O.)

Proper Shipping Name	Acetone
Hazard Class	3.1
UN/NA	UN1090
Labels	FLAMMABLE LIQUID

N/A = Not Applicable or Not Available

The information published in this Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions. We reserve the right to revise Material Safety Data Sheets periodically as new information becomes available.