

# Acetone



Acetone is a clear, colorless, volatile liquid free from suspended matter with a sweetish odor. It is soluble with no turbidity in all proportions in water. It is used in many solvent applications and is an ingredient in many chemical reactions. Georgia Gulf acetone is produced by the oxidation of cumene at our chemical complexes located in Plaquemine, Louisiana and Pasadena, Texas.

## Properties

<b>Molecular weight</b>	<b>58.09</b>
<b>Boiling point, EC</b>	<b>56.1</b>
<b>Flash point (closed cup),EC</b>	<b>-17</b>
<b>Vapor pressure(mm mercury @ 20 EC)</b>	<b>185</b>
<b>Viscosity (cps @ 25 EC )</b>	<b>0.3075</b>
<b>Vapor density (air =1)</b>	<b>2</b>

## Uses

The largest use for acetone is in the production of methyl methacrylate, which is converted into acrylic sheet. Acetone is also used to produce methyl isobutyl ketone and bisphenol A, an intermediate for epoxy resins and polycarbonate engineering plastics. Quantities of acetone are also used in the production of methacrylic acid and higher acrylates that are used in polymers and coatings. In addition to its solvent applications, acetone is used in many other diverse applications.

## Handling and Storage

Storage areas should be well-ventilated and equipped with automatic sprinklers or an adequate extinguishing system. Drums or other containers should be made from non-combustible materials. Acids or oxidizing materials should not be stored near acetone. Bulk storage facilities require special considerations relating to vents, diking and separation distances. Local and federal regulations as well as insurance codes must be considered whenever acetone is stored, used or handled.

All acetone storage must be electrically bonded and grounded to prevent possible ignition from static sparks. Whenever

acetone is stored or handled, all electrical equipment should be installed in accordance with Articles 500 and 501 of the National Electrical Code, Hazardous Locations.

No smoking or open flames are allowed in areas where acetone is being stored, used or transferred. Spark resistant tools should be used around lines, drums or other containers of acetone. Care should be taken during the loading and unloading of tank cars and tank trucks of acetone due to its flammability.

Because acetone is a flammable liquid, it introduces a potential fire hazard. Carbon dioxide or dry chemicals are considered to be most effective to extinguish fires involving acetone. Water spray may be effective; however, a stream of direct water has a tendency to spread the fire and should not be used. An 'alcohol\*' type foam should be used for large spills and tank fires.

Acetone spills may need to be reported to the National Response Center (800-424-8802). Disposal of spill material should be in compliance with local, state and federal regulations.

More information on the safe handling of acetone is in the Material Safety Data Sheet available from Georgia Gulf.

## Shipping

Georgia Gulf supplies acetone in ocean going vessels, tank cars and tank trucks. Shipments are made from our plants in Plaquemine, Louisiana and Pasadena, Texas and from several points in our nationwide storage and distribution system.

The Department of Transportation (DOT) regulates the shipment of acetone, and information concerning placarding and reportable quantity requirements for any quantity of shipment is available from the DOT Materials Transportation Board or from Georgia Gulf.

Acetone is classified by the DOT as a flammable liquid, with a

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**IMPORTANT:** The technical data herein is believed to be accurate. It is offered for your consideration investigation and verification. Buyer assumes all risk of use, storage and handling of the product.

**No warranty, expressed or implied, is made including, but not limited to, implied warranties of merchantability and fitness for a particular purpose.**

Nothing contained herein shall be construed as a license to operate under, or recommendation to infringe, any patents.

Hazardous Material Identification Number of UN 1090. Any signs of leaking product during shipping or unloading must be given prompt attention. In case of emergency, contact CHEMTREC at 800-424-9300.

## **Sales and Service**

Competent sales representatives are available to help meet your needs with Georgia Gulf chemicals.