
Hazardous Properties

3M™ GAP-5527 Polyol is classified by the Department of Transportation as “Propellant, Liquid, UN 0495”, and by the Department of Defense as a Class 1.3 Explosive, Storage Group C, on the basis of the following test results:

Impact test (Bureau of Explosives) 0/10 at 80 inch-pound neat

Friction test (Bureau of Explosives)0/10 at 100 pounds

Unconfined burnSmooth, rapid burn (under 1 second for 185 grams) #8 blasting cap. Neat material did not react. Cotton soaked with GAP-5527 ignited and burned.

Thermal stabilityPass, no reaction at 75°C for 48 hrs.

Mixtures of GAP-5527 with other materials may have a much higher sensitivity than the pure material and it is critical that any such mixture be characterized for hazardous properties before any significant quantities are mixed.

Shipping

Ship in accordance with DOT Regulations.

Product Safety and Handling

3M™ GAP-5527 polyol must be handled and stored in accordance with the regulations prescribed by the Bureau of Alcohol, Tobacco and Firearms and/or the Department of Defense as applicable to the user’s facility.

3M recommends storage at room temperature, and indications that shelf life of GAP-5527 in the original unopened containers is at least two years. GAP should not be exposed to sunlight or other strong UV sources as it will slowly evolve nitrogen gas. However, opaque containers may be exposed to sunlight.

GAP has been found to pick up moisture from the atmosphere, and this moisture may interfere from the NCO-OH curing reaction. If the container has been left open for a time, it may be necessary, before use, to dry the 3M GAP by agitated vacuum drying or by sparging with dry nitrogen at slightly elevated temperatures (60-70°C).

For additional health and safety information, please refer to the product Material Safety Data Sheet.

Disposal

Testing of a solution of 40% GAP in ethyl acetate indicates that such solutions may be classified as a “flammable liquid.” It should be possible to destroy such solutions in an approved incinerator.

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Important Notice to Purchaser: The information in this publication is based on tests that we believe are reliable. Your results may vary due to differences in test types and conditions. You must evaluate and determine whether the product is suitable for your intended application. Since conditions of product use are outside of our control and vary widely, the following is made in lieu of all express or implied warranties (including the warranties of merchantability or fitness for a particular purpose): 3M's only obligation and your only remedy is replacement of product that is shown to be defective when you receive it. In no case will 3M be liable for any special, incidental, or consequential damages based on breach of warranty or contract, negligence, strict tort, or any other theory.



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