

Decision Chart I

Introduction:

The Gastec Hazmat Kit is designed to provide hazard information quickly to hazardous response teams in emergency situations. Chemical accidents (releases, spills, transport accidents) require a fast assessment of the airborne concentration level for a quick safety evaluation of the area.

Usually, the chemical hazard is known, which merely requires the use of one detector tube to obtain the concentration level. In situations where the containment is unknown, the Decision Chart provides a simple plan for determining the hazardous substances by using a progressive test procedure with a series of carefully chosen detector tubes.

Using Decision Chart I:

When using Decision Chart I, start on the left and proceed to the right following plus signs (+) after a positive response (stained tube) and negative signs (-) after a negative response (no stain). If no negative directive is given, then conclude that the tested substance is not present (i.e. below the detection level listed in the tube instructions). The diamond shaped "decision directives" are used to direct users to the next step by following the "stain/no stain" pathway. The (+) and (-) symbols represent the response to the question of "stain?" with a (+) answering yes to a stain, and (-) answering no to a stain. Individual tube tests are indicated by rectangular boxes containing the substance and the tube number (i.e. Chlorine, No. 8La). Conclusions are listed at the extreme right in square boxes.

For example, a negative result on the Polytec tube, No. 107, should be followed by tests with tubes 12L and 8La. Negative responses on tubes 12L and 8La eliminate Chlorine, Bromine, Ammonia, Hydrogen Cyanide or Sulfur Dioxide, and would indicate that possibly an acid gas is present. If you upgrade to the Deluxe Hazmat Kit II, you will have almost twice the amount of tubes for determining three times more substances.

The sequence provides a lot of valuable information. Remember that the negative response on the Polytec tube eliminated the contaminants listed in the upper half of the chart. Remember also that almost all Gastec detector tubes provide quantitative as well as qualitative results so that users know when dangerous levels are approached.

CAUTION:

The Decision Chart I is a helpful tool but is not a substitute for the instruction sheets found in each box of tubes. Those instructions should be read and utilized for further information. Some of the tubes used in this kit are dual tubes that require two tubes placed in series to obtain one test. Consult the Gastec Handbook or tube instructions (in each box of tubes) for proper usage of the tubes.

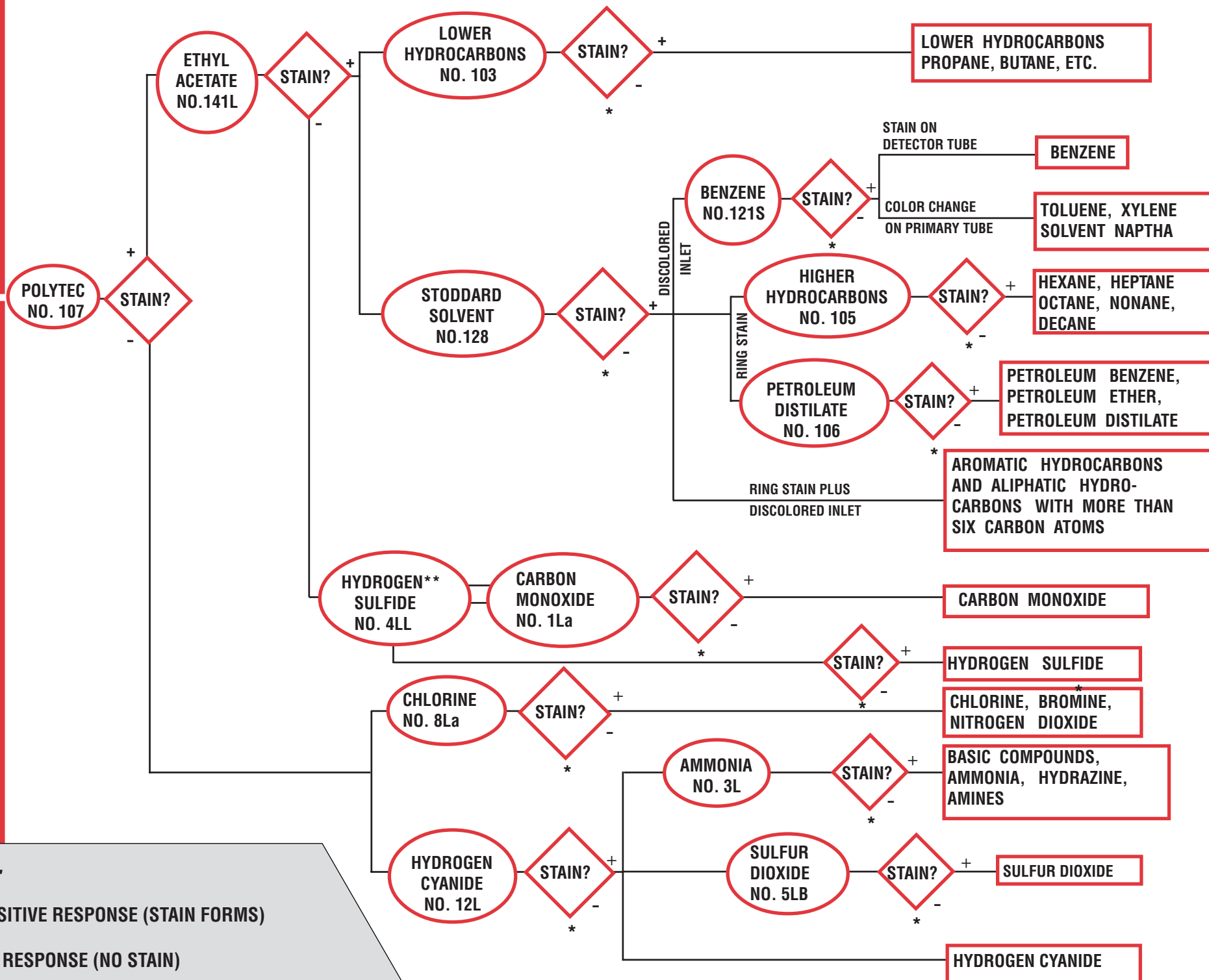
A regular program of pump leak testing and lubrication should be followed to assure that the Gastec Hazmat Kit will always be ready for emergency response. Consult the pump instruction card or Gastec Handbook for instructions.

KEY NOTES 1-4 for Decision Chart I:

1. The Polytec tubes stain color will indicate which of over one dozen compounds may be present.
2. Tube No. 121S for Benzene provides a second color indication in the pre-tube to indicate certain other aromatics.
3. Tube No. 128 for Stoddard Solvent provides a qualitative aromatic hydrocarbon indication by discoloration around the zero. The tube's normal response (for hydrocarbons of six or more carbon atoms) is a "ring" stain.
4. If a negative response is obtained on tube 141L after a positive response on No. 107 then assume substances to be present.

For answers to questions, please call:
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START



KEY:

+ = POSITIVE RESPONSE (STAIN FORMS)

- = NO RESPONSE (NO STAIN)

* = NONE PRESENT-GO BACK TO LAST DECISION DIRECTIVE FOR ALTERNATE TUBE.

** = PLACE THE 4LL IN FRONT OF THE 1LA FOR SIMULTANEOUS TESTING. THE 4LL WILL PROVIDE H2S SCRUBBING.