

REACTION MIXTURE CONTAINS

**DESIRED PRODUCT(S), UNWANTED BY-PRODUCTS,
UNREACTED STARTING MATERIALS, SOLVENTS,
CATALYSTS.**

PRODUCT MAY BE LIGHT, HEAT, OR AIR SENSITIVE.

**(5) SEPARATION AND PURIFICATION OF
PRODUCT(S) (SO-CALLED REACTION WORK-UP)**

- EXTRACTIONS**
- DISTILLATIONS**
- CRYSTALLIZATIONS**
- CHROMATOGRAPHY**
- ETC**

(6) IDENTIFICATION OF PRODUCT(S)

- IR, NMR, OTHER SPECTROSCOPY,
CHROMATOGRAPHY, PHYSICAL PROPERTIES
(MP, BP, ETC)**