

STATE OF NEW JERSEY
DEPARTMENT OF LABOR
Harry C. Harper, *Commissioner*

DIVISION OF ENGINEERING & SAFETY
C. GEORGE KRUEGER, *Director and*
Deputy Commissioner

BUREAU OF WOMEN AND CHILDREN

LIST OF PERMISSIBLE AND PROHIBITED OPERATIONS, EQUIPMENT AND SUB-
STANCES OF THE KIND USUALLY FOUND IN SCIENTIFIC, TECHNICAL OR RE-
SEARCH LABORATORIES GOVERNING PERMISSIBLE EMPLOYMENT OF MINORS
BETWEEN 16 AND 18 YEARS OF AGE.

GENERAL OPERATIONS

- Permissible - (1) Preparation of samples for testing
(2) Chemical analysis of sample
(3) Physical analysis of sample
(4) Preparation of reagents, test solutions, and standards
(5) Testing of samples
(6) Laboratory preparation of intermediate and final products
(7) Sampling, filing and dispatching
(8) Clean-up of work space
(9) Errands to plant and stores

Prohibited - Any of the above general operations which are affected by the prohibitions expressly stated in section 8a to 8g inclusive, above.

SPECIFIC OPERATIONS:

Permissible - Weighing, measuring; filtering; drying; hand grinding; dissolving; precipitation; extracting; washing; reducing; fusions; hydrolysis; couplings; condensation; determining melting point; freezing point; boiling point; boiling range; ph. density screen size; viscosity.

Prohibited - Machine grinding, and any of the above specific operations which are affected by the prohibitions expressly stated in section 8a to 8g inclusive, above.

EQUIPMENT:

Permissible - Autoclaves, balances, centrifuges, comptometer, drying ovens, drum dryers, enamelware, fusion pots, glassware, heating racks, hot plates, microscopes, muffle furnaces, parr bombs, potentiometers, sample containers, stirrers (mechanical), steam, water and oil baths, vacuum pumps, vacuum stills.

Prohibited - Any of the above which are used in connection with dangerous or poisonous acids or dyes and highly flammable substances.

SUBSTANCES: Under the provisions of the child labor law certain substances are prohibited for use by virtue of being dangerous or toxic. Such substances or materials of the kind usually found in laboratories are defined and classified below. As such, they are all in the prohibited class in consequence of which no minor under eighteen years of age is permitted to work in, about or in connection with these materials.

This list is illustrative of substances, commonly used in laboratories, which are in the prohibitive classification. It is not intended to be complete but is to be used as a guide for such substances that are not named on the list.

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Such list of permissible and prohibited operations, equipment and substances of the kind usually associated with laboratories is attached.

Important. *Where minors are engaged in permissible employment in laboratories, they must be always under the immediate supervision of an experienced chemist, technician, scientist or engineer who is thoroughly familiar with the work as regards not only the properties of the materials or equipment but accepted safety practices and such supervisor should preferably be a licensed professional engineer.*

Trenton, New Jersey
March, 1948