

4. Chemicals

*For inquiries or questions concerning chemicals refer to ;
<http://www.rcnp.osaka-u.ac.jp/Divisions/safety/english/related.pdf>

- ◆ Bringing in and carrying out chemicals are not permitted at RCNP.
- ◆ Please consult with the person in charge of chemical control to use chemicals in RCNP. Only a member of the safety and hygiene committee can perform any purchase of chemicals.
- ◆ Poisonous and toxic substances must be kept in a separate storage that is locked.

<General Information>

- All persons handling chemicals must fully understand the official regulations for the harm prevention.
- Special care should be paid when handling dangerous chemicals as described in the Specified Chemical Substance Act, the Ordinance on the Prevention of Organic Solvent, and the Fire Services Act.
cf.
<http://www.env.go.jp/en/chemi/prtr/prtr.html>
<http://www.nihs.go.jp/law/dokugeki/edokugeki.html>
- Use of dangerous medicine in the work other than research and out of the permitted place is forbidden. The eating and drinking in the laboratory which deal with chemicals are forbidden.
- If there is a need for changes of any machines or facilities that are under the regulations by the Specified Chemical Substance Act, the Ordinance on the Prevention of Organic Solvent, or the Fire Services Act, contact the chemicals person in charge at the appropriate phase of the research plan.

Bringing in and transfer of the chemicals

1. Bringing in and transfer of the chemicals are not permitted at RCNP.
2. The transfer of the chemicals between the researchers is not permitted.
3. On the occasion of carrying in of a beryllium sample, please consult with the head of the safety and hygiene committee, or a chemicals person in charge in advance.

Handling

1. Anyone who plans such handling of chemicals as to leave waste fluids or poisonous gases must obtain the permission of the chemicals person in charge beforehand, and must follow his instructions.
2. When doing the work that involves handlings of dangerous chemicals, personnel must wear cotton working clothes, and use appropriate protective equipment (ex. goggles, masks). The protective equipment is provided by the RCNP administration of safety and hygiene. If you have any questions about chemicals handling, please contact the chemicals person in charge.
3. When doing the work that involves handlings of flammable or ignitable materials, a fire extinguisher must be placed nearby and the room must be ventilated.
4. When doing the work that involves handlings of toxic substances, the room must be ventilated properly.
5. Please use local exhaust ventilation when handling the chemical as listed in Specified Chemical Substance Act, the Ordinance on the Prevention of Organic Solvent.
6. Please be sure to handle toxic substances and highly poisonous substances by two or more workers, and do not handle them alone.
7. When a corrosive substance splashes on the skin or it goes into an eye, wash it off quickly with a lot of water. Especially, the alkalis corrode eyeball, when they get in the eye, immediately cleanse the eye of them in flowing water for than 15 minutes or more, undergo medical treatment in a hospital.
8. Toxic substances, such as beryllium and lead, shall be used just in the state as they have been manufactured and supplied the machining in RCNP is forbidden.

Storing Chemicals

1. Dangerous materials exceeding the specified amount by the Fire Services Act cannot be handled.
2. Chemicals especially inflammables must be kept away from fire.
3. When the usage expands for two or more days, chemicals have to be returned every day.
4. Please take a fall and leak prevention measure for the shelf which is stored chemicals in.
5. When you leave a workplace temporarily, do not leave chemicals on the work. Be sure to return them to a chemical storage.
6. All the chemicals owned by RCNP are registered with in the Osaka University Chemical Communication System (OCCS) and the amount of purchase of chemicals, the amount used and amount of stock are managed by using OCCS and checked them against the PRTR law.
7. It is necessary to severely manage the storage of toxic substances and the highly poisonous substances, so that they may not be for crimes as injuries and homicides. In RCNP, they are kept in locked storages for exclusive use. When you take them out of and return them to the storage, you have to check strictly the kind and the quantity of the chemicals in the presence of more than one coworker.

8. When the stock quantity of a toxic substance is observed to be decreasing unusually rapid or when they are found lost or stolen, contact the chemicals person in charge promptly.
9. The used beryllium samples cannot be carried out from RCNP, and are stored in locked storages in RCNP. For details, please consult with the head of the safety and hygiene committee, or a chemicals person in charge.

Sign

1. Signs are posted in places where chemicals are used or stored with the name of the management person in charge and their extension phone number. If you have any questions about chemicals, please contact them.
2. Attached to each chemical bottle is a label with the necessary information such as the name of purchaser and the purchased amount. The amount used is managed and updated by Osaka University Chemical Communication System.

Collection and Disposal

1. Do not discharge the waste fluids containing chemicals from a sink.
2. Hand all used the waste fluids to a chemicals person in charge.