

Kumamoto University

実験廃液貯留簿シート Experiment Waste Liquid Amount Record List

排出番号: y47001-難燃性廃液-44
申請日: 2016-03-31

焼却処理: 難燃性廃液

(GHS)

pH: _____
 計: 10 L

排出日: _____
 排出場所: 環境安全センター
 事務担当: 施設管理UI-安衛T (化学物質管理)

| | | |
|-----------------------------|--|---------------------|
| 水 | | 7.61 L (76.11 v/v%) |
| ポリビニルピロリドン | | 200 g (20000 ppm) |
| くえん酸 | | 2000 g (200000 ppm) |
| クマシープリリアントブルー-R-250 [電気泳動用] | | 5 g (500 ppm) |
| トリス(ヒドロキシメチル) アミノメタン | | 30 g (3000 ppm) |
| グリシン | | 144 g (14400 ppm) |
| ドデシル硫酸ナトリウム | | 10 g (1000 ppm) |
| | | |
| | | |

＜排出者情報＞
 部署: esc.環境安全センター

グループ

 化学物質管理責任者: 山口 佳宏
 連絡先(内線番号): 3238
 化学物質管理推進者:
 連絡先(内線番号): _____

＜特記事項＞

 国立大学法人 熊本大学環境安全センター
 〒860-8555 熊本市中央区鼻農2丁目39番1号
 環境安全センター 担当事務
 連絡先: 096-342-5234

容器表面を清潔にして、本紙を貼付してください。
Please clean the front of the container and affix this sheet.

5. Unnecessary chemicals

Unnecessary chemicals refer to chemical substances that are no longer used by a Group. Groups often continue to store unnecessary chemicals because such chemicals may be used in the future or it is wasteful to dispose of such chemicals. However, such practice often leads to problems, such as loss of chemicals, shortage of storage area for chemicals, deterioration of chemicals, and failure of identification due to fading and damage to labels. This makes it difficult to take action in the event of an emergency. During many years of possession, it may become illegal to possess certain chemicals due to changes in laws and regulations. Thus, it is recommended to promptly dispose of chemicals when they are no longer needed.

The Environmental Safety Center makes arrangements for discharge of unnecessary chemicals twice a year (in around July and December). Unnecessary chemicals are disposed of by a contractor. Unnecessary chemicals must be separated based on the classification shown in Table 6-1. Separate unnecessary chemicals to be discharged, and apply via YAKUMO. (For details, refer to “Unnecessary chemicals application manual” on YAKUMO.)

Regarding chemicals that are not registered in YAKUMO, prepare a list using Excel and send the list to the Environmental Safety Center through the administrative personnel of respective Sections, etc. The Environmental Safety Center also checks for unnecessary chemicals that cannot be disposed of. The following items are outside the scope of disposal by the Environmental Safety Center.

[Items outside the scope of disposal]
 Internationally controlled materials, stimulants/stimulants’ raw materials, narcotics, explosives, radioactive substances, medical waste/infectious waste, asbestos-containing substances, PCB-containing substances, dioxins, experiment waste liquids (discharged during waste liquid collection on campus)

After the Environmental Safety Center checks the unnecessary chemicals, paste a YAKUMO barcode or an unnecessary chemicals discharge form (school/faculty/division, etc., Chemical Substance Manager, contact information, list No.) on each container. Put the containers in a box, etc. for discharge. The Environmental Safety Center collects the containers and checks the list submitted by a laboratory with unnecessary chemicals discharged. Each container that is checked is packaged in a polyethylene bag.

Workers may be injured, and fire or explosion and environmental pollution may occur. Take the

following precautions. If an accident occurs due to improper discharge, the person who discharged unnecessary chemicals may be held responsible.

(Precautions)

- Put unnecessary chemicals in sealable containers. (A polyethylene bag must not be used in principle. Regarding materials for containers, take reactivity of chemicals into account.)
- Close the cap of chemicals. (If there is liquid leakage or an odor, replace the cap or put the container in a different container.)
- Put the containers of chemicals upright in a cardboard box. (Do not lay containers on their side or stack them.)
- If there is extra space to fill in a box, put cushioning materials or crumpled newspaper, etc. to prevent bottles from falling.
- Wrap each glass bottle with a cushioning material or a sheet of paper, or provide partitions in a box. (Prevent breakage of bottles due to contact with each other.)

[Examples of accidents]

- An unidentified chemical in a polyethylene bag generated white smoke. Emergency action was taken for disposal. (This may have caused fire depending on the situation.)
- A chemical liquid leaked, causing the bottom of the box to break open. The containers of chemicals dropped, and the content scattered. The worker's clothes were corroded.

Table 6-1 Classification of unnecessary chemicals

| Classification | Content |
|---------------------------------|--|
| Toxic heavy metal liquids | Chemicals containing mercury, chromium, arsenic, selenium, lead, or cadmium |
| Toxic heavy metal solids | |
| Cyan liquids/ toxic solvents | Chemicals containing cyanides, trichloroethylene, tetrachloroethylene, dichloromethane, carbon tetrachloride, 1,2-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,3-dichloropropene, benzene, or 1,4-dioxane |
| Cyan solids | Solid chemicals containing cyanides |
| Valuable metals | Chemicals containing gold, platinum, silver, or palladium |
| General liquids | Chemicals whose content can be identified (other than above and "Other") |
| General solids | |
| Unidentified liquids | Chemicals whose content cannot be identified |
| Unidentified solids | |
| Other | Organophosphorus compounds (limited to parathion, methyl parathion, methyl dimetone, and EPN), simazine, thiuram, and thiobencarb |
| | Spontaneously combustible substances and water-reactive substances (metallic potassium, metallic sodium, alkyl aluminum, yellow phosphorus, and Type 3 hazardous materials), and spray chemicals (High pressure gas cylinders are not included in chemicals.) |
| | Toxic sludge (solid residue generated in experiments, etc. that is toxic, hazardous, etc. and cannot be discharged as general waste; indicate the specific condition and substances contained. Notably, if heavy metals are contained, indicate the names of metals contained.) |