

HANDLING AND DISPOSAL OF HAZARDOUS WASTE

(Non-conventional waste)

Directions for the disposal of hazardous waste at Lund University from 2002-05-01

Risk waste (sharp waste, biological waste, infectious waste and radioactive waste), chemical waste and environmentally hazardous waste is defined as hazardous waste and is governed by special legislation and regulations. Hazardous waste is to be stored, packaged and labelled according to the instructions below, and a declaration of contents attached when necessary.

NB: Hazardous waste will not be removed if it is not packaged and labelled correctly.

PACKAGING:

- * Only boxes marked **RISKAVFALL**, with volumes 25 or 55 litres (**NB:** max weight 12.5 kg), or approved **UNMARKED** boxes may be used. Seal each box with adhesive tape.

LABELLING:

- * Mark with a permanent felt marker, name and telephone number of the person responsible for packaging, department/division and cost centre.
- * **RISK WASTE box type 1** is pre-labelled **INFECTIOUS WASTE/SHARP WASTE** + symbols.
- * **RISK WASTE box type 2** is pre-labelled **RISK WASTE** and is intended for **BIOLOGICAL, SHARP** and **LOW-RADIOACTIVE** waste.
- * **CHEMICAL WASTE** is to be packaged in **UNMARKED** boxes **WITHOUT** risk waste labelling.
- * Attach a **DECLARATION OF CONTENTS** to **INFECTIOUS** and **LOW-RADIOACTIVE** waste.

R I S K W A S T E		
SHARP WASTE	BIOLOGICAL WASTE	INFECTIOUS WASTE or INFECTIOUS/SHARP WASTE
Cannulas, lancets, etc. (non-infectious) Pipette tips; Contaminated laboratory glassware Empty chemical bottles Low-radioactive sharp waste	Experimental animals Tissue from humans or animals Low-radioactive animal waste GMO animal waste NB: No <u>glass</u> or other waste.	Blood and urine test-tubes Cannulas, lancets, etc. Cell culture waste, untreated GMM waste, untreated GMO plant waste, untreated Low-radioactive, infectious waste
<ul style="list-style-type: none"> * Place the waste in a suitable sharps container. * When the sharps container is full, tape the lid in place. * Pack in RISK WASTE box type 2, in a plastic bag. Seal. * For sharp waste, mark the box with tape, SKÄRANDE-STICKANDE (Sharps) * For low-radioactive waste, affix such a label to the box and fill in and attach a declaration of contents. 	<ul style="list-style-type: none"> * Place the waste in a plastic bag and tie up well. * Pack in RISK WASTE box type 2, with a plastic bag. Seal. * Mark the box with tape, BIOLOGISKT (Biological), and if necessary with a label declaring low-radioactive waste. Fill in and attach a declaration of contents. <p>NB: Biological waste must not be kept at room temperature for longer than 4 hours. Material for later disposal must be stored in a freezer.</p>	<ul style="list-style-type: none"> * Place test-tubes, cannulas, etc. in a sharps container, tape on the lid. * Other waste is to be placed in a plastic bag and tied up well. * Pack in "RISK WASTE" box type 1, with a plastic bag. Seal. * <u>Underline the appropriate category</u>, and if necessary affix a label declaring low-radioactive waste. * Infectious waste is to be stored in a refrigerator or freezer. * Fill in and attach a declaration of contents.

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H A Z A R D O U S W A S T E a n d R A D I O A C T I V E W A S T E		
CHEMICAL WASTE	RADIOACTIVE WASTE	OTHER HAZARDOUS WASTE
<p>Health- and environmentally hazardous chemicals Pharmaceutical waste (which has been used in chemical research) Scintillation containers – note: 1. must not contain α-emitting substances 2. activity conc. < 10 Bq/ml <u>or</u> < 100 Bq/ml for ^3H or ^{14}C</p>	<p>Low-radioactive waste sharp, biological and infectious waste is to be treated as Risk waste, according to each category. Low-radioactive scintillation containers and other low-radioactive waste is treated as Risk waste Other scintillation containers see chemical waste</p>	<p>Photographic chemicals Spent film, developer and fixer solutions must be disposed of as chemical waste or be returned to an approved waste management company.</p>
<p>* Pack in an unmarked box with an absorbent, e.g. vermiculite, in a plastic bag, and seal well.</p> <p>* Scintillation containers: Affix a label declaring: Kemiskt avfall, Vätskescintillationslösning (Chem. Waste, Scint. Solution)</p> <p>* For disposal - Contact the University's waste deposit, tel: 046-22 271 25 or submit the form "Hämtning av kemiskt/farligt avfall" (Collection of chemical/-hazardous waste) to the Div. of Buildings, mail stop 31</p>	<p>"Low-radioactive waste" means that the activity of each package may not exceed 1 ALImin.</p> <p>* Low-radioactive waste is to be labelled with special labels containing information on the radionuclide, activity and confirming that the surface dose rate is less than 5 $\mu\text{Sv/h}$. When necessary it is to be packaged and marked as SHARP, BIOLOGICAL, INFECTIOUS or INFECTIOUS/SHARP</p> <p>* Fill in and attach a declaration of contents.</p>	<p>Batteries; Fluorescent tubes and Mercury lamps These are collected by LRF on the first Monday of every month.</p> <p>Equipment containing environmentally hazardous substances (PCB, lead, mercury, sources of radiation, etc.) Contact the Div. of Buildings.</p> <p>Electronic waste (excluding IT equipment) Collection to be requested via Uno Lindman, LRF, tel: 046-35 53 97</p>
<p>Thermometers containing mercury Mercury electrodes Mercury switches Lead containers (empty, clean) These are to be collected and disposed of as chemical waste. Contact the University's waste deposit, tel: 046-22 271 25</p>	<p>Moderate- and highly radioactive waste This is to remain at the department or division until agreement has been reached with LU's radiation safety physicist regarding disposal, tel: 046-17 31 21. Affix a label containing information on the name of the radionuclide, the person responsible for the waste and the activity at the time of packaging.</p>	<p>IT- equipment (Normally not regarded as hazardous waste) This kind of waste is collected by LRF on the first Monday of every month.</p>

Boxes, plastic bags and tape marked "Biologiskt" and "Skärande/stickande"; order from the Service Division.

Labels for low-radioactive waste and liquid scintillation waste can be ordered from the Service Division or downloaded from the Internet at the address given below. Labels are also available for radioactive waste which has been set aside to decay, "**Avklingning**".

Forms for the declaration of contents ("**Godsdeklaration**") and collection of chemical/hazardous waste ("**Hämtning av kemiskt/farligt avfall**") can be downloaded from: www.lu.se/miljo, under "**Avfall**".

For further information, please contact:

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<i>Sven Ericson</i> , Research engineer, Div. of Buildings	ext. 271 25 (Chemical waste)
<i>Christer Samuelsson</i> , Radiation protection physicist	ext. 731 21 (Radioactive waste)
<i>Kerstin Gustafsson</i> , Environmental manager, Div. of Buildings	ext. 270 88 (Other hazardous waste)
<i>Lars Paulsson</i> , Service Division	ext. 270 84 (Boxes, tape and labels)

