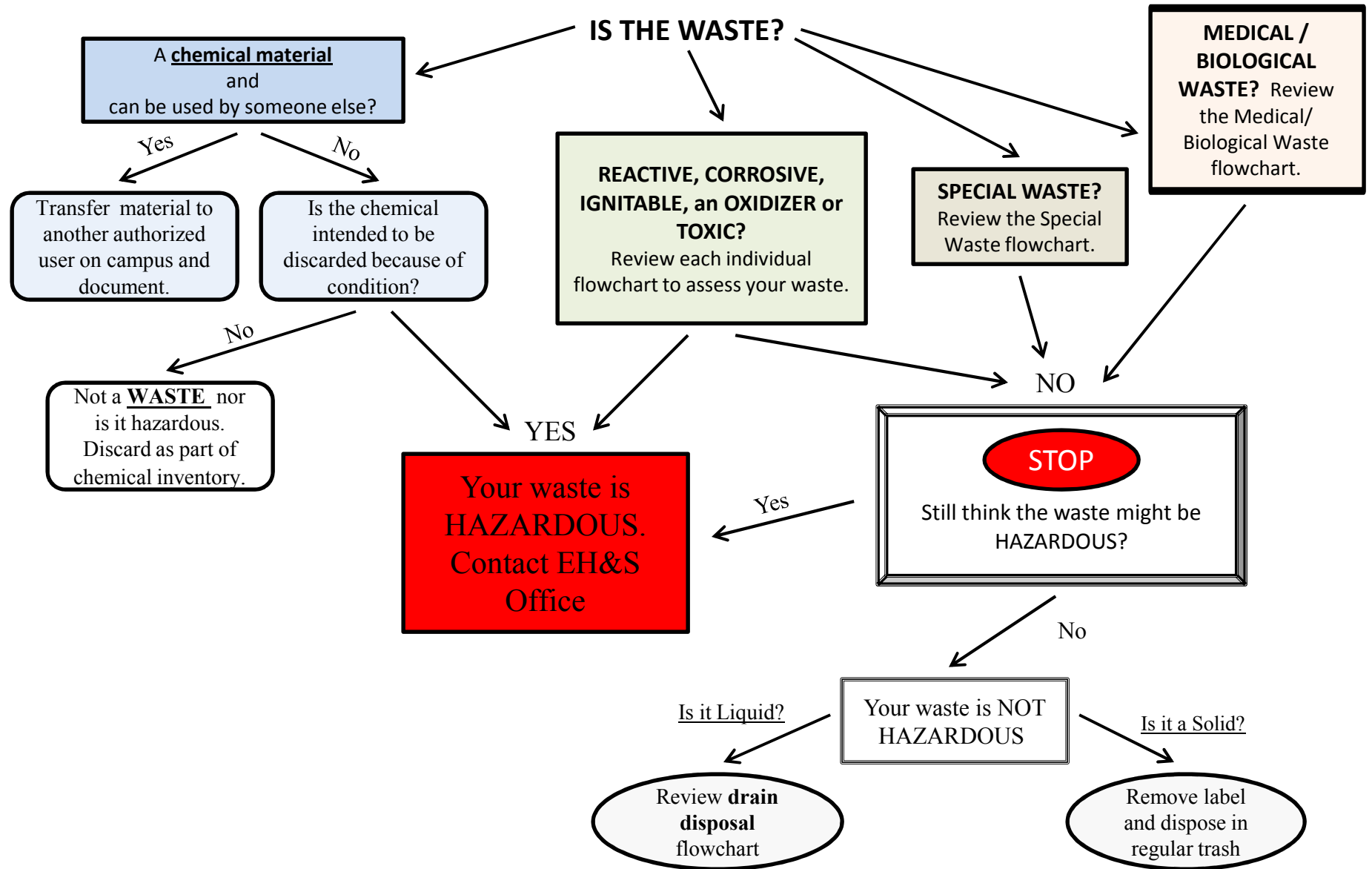


Hazardous Waste Classification

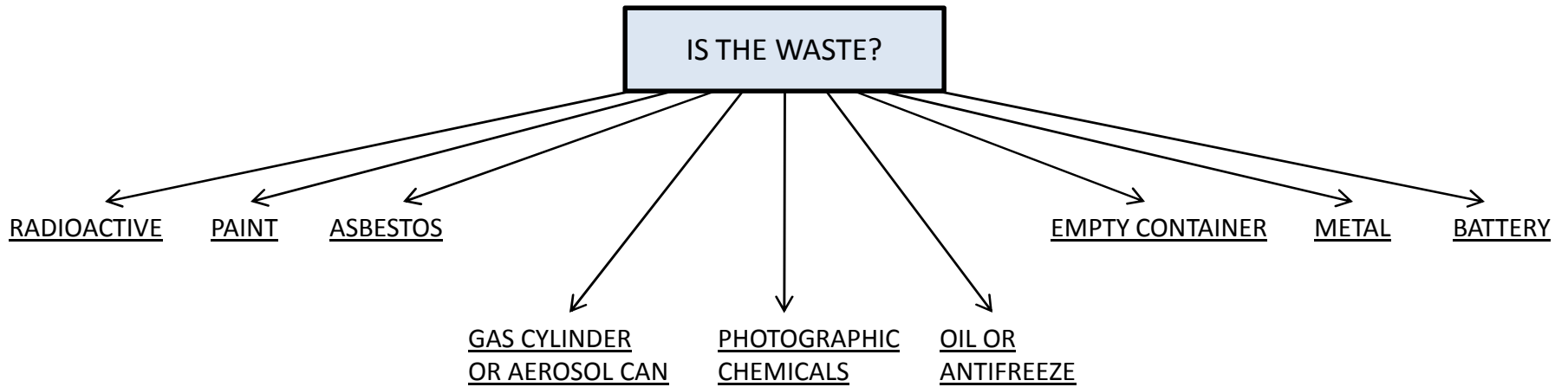
WASTE DEFINITIONS AND DETERMINATION

Main Flowchart



Hazardous Waste Classification

SPECIAL WASTE



IF YOUR WASTE FELL INTO ANYONE OF THE ABOVE CATEGORIES REFER TO THE APPROPRIATE FLOW CHART (i.e. paint flowchart)

NO ↓

YOUR WASTE IS NOT ONE OF THE ABOVE

THEN ↓

YOUR WASTE MATERIAL IS NOT SPECIAL WASTE
CONTINUE ON THE MAIN FLOWCHART

Hazardous Waste Classification

RADIOACTIVE WASTE

DOES YOUR WASTE CONTAIN ANY OF THE FOLLOWING?

THIS SIGN DISPLAYED ON
THE WASTE
OR WASTE CONTAINER?



OR

RADIOACTIVE MATERIAL?
*(ANY ISOTOPE EMITTING A FORM
OF RADIATION)*

URANIUM OR THORIUM
COMPOUNDS?

SELF-ILLUMINATED EXIT-SIGN?
SMOKE DETECTOR?
ELECTRON CAPTURE DETECTOR?
OR STATIC ELIMINATOR?

YES

CONTACT:
RADIATION SAFETY OFFICE
YOUR WASTE MAY BE RADIOACTIVE WASTE

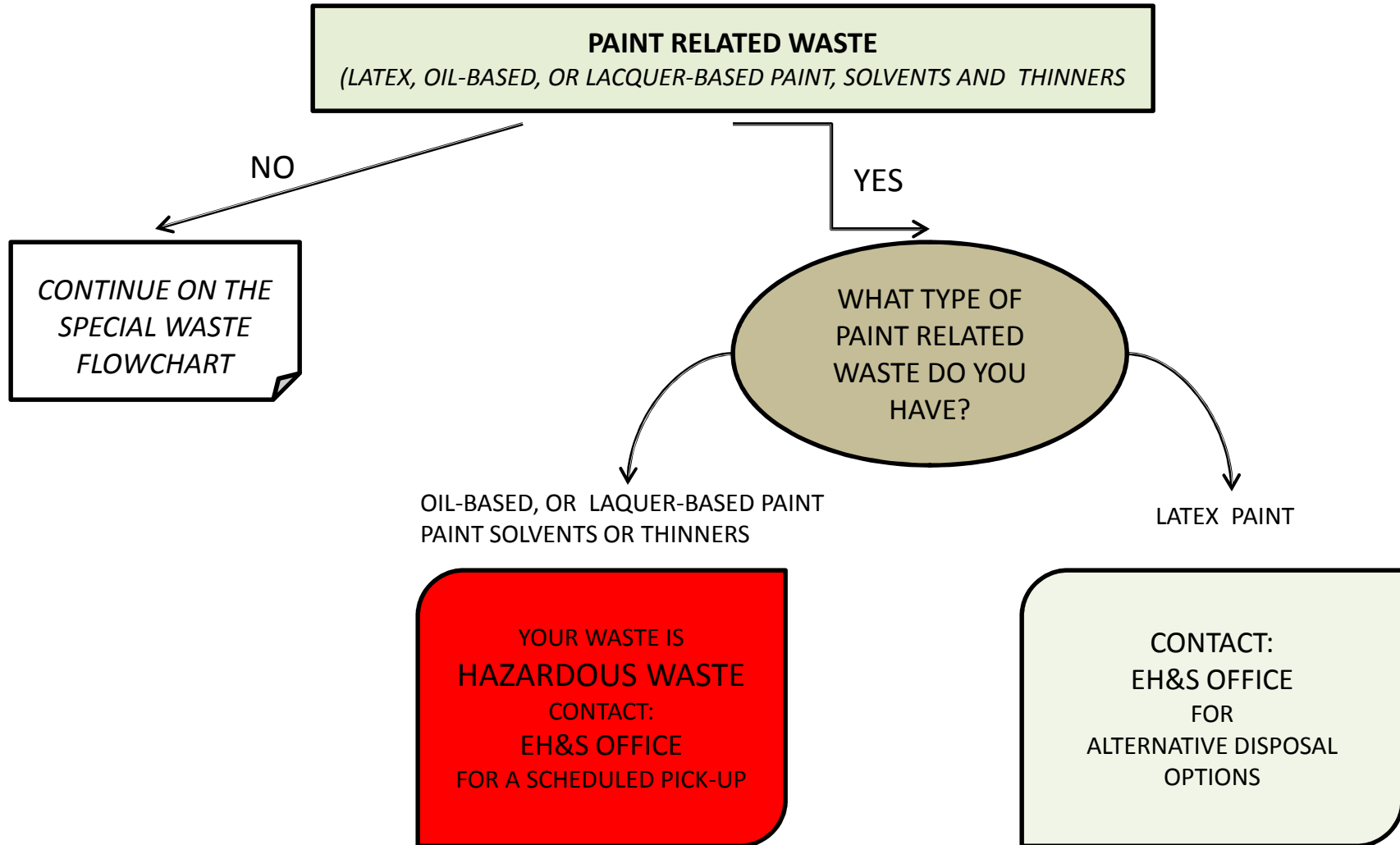
NO

YOUR WASTE IS NOT RADIOACTIVE WASTE
CONTINUE ON THE SPECIAL WASTE FLOWCHART

Hazardous Waste Classification

PAINT RELATED WASTE

IS THE WASTE?



Hazardous Waste Classification

ASBESTOS WASTE

IS THE WASTE?

ASBESTOS
With
Levels >1%

NO

CONTINUE
ON THE
SPECIAL WASTE
FLOWCHART

ASBESTOS MATERIAL

EXAMPLES:

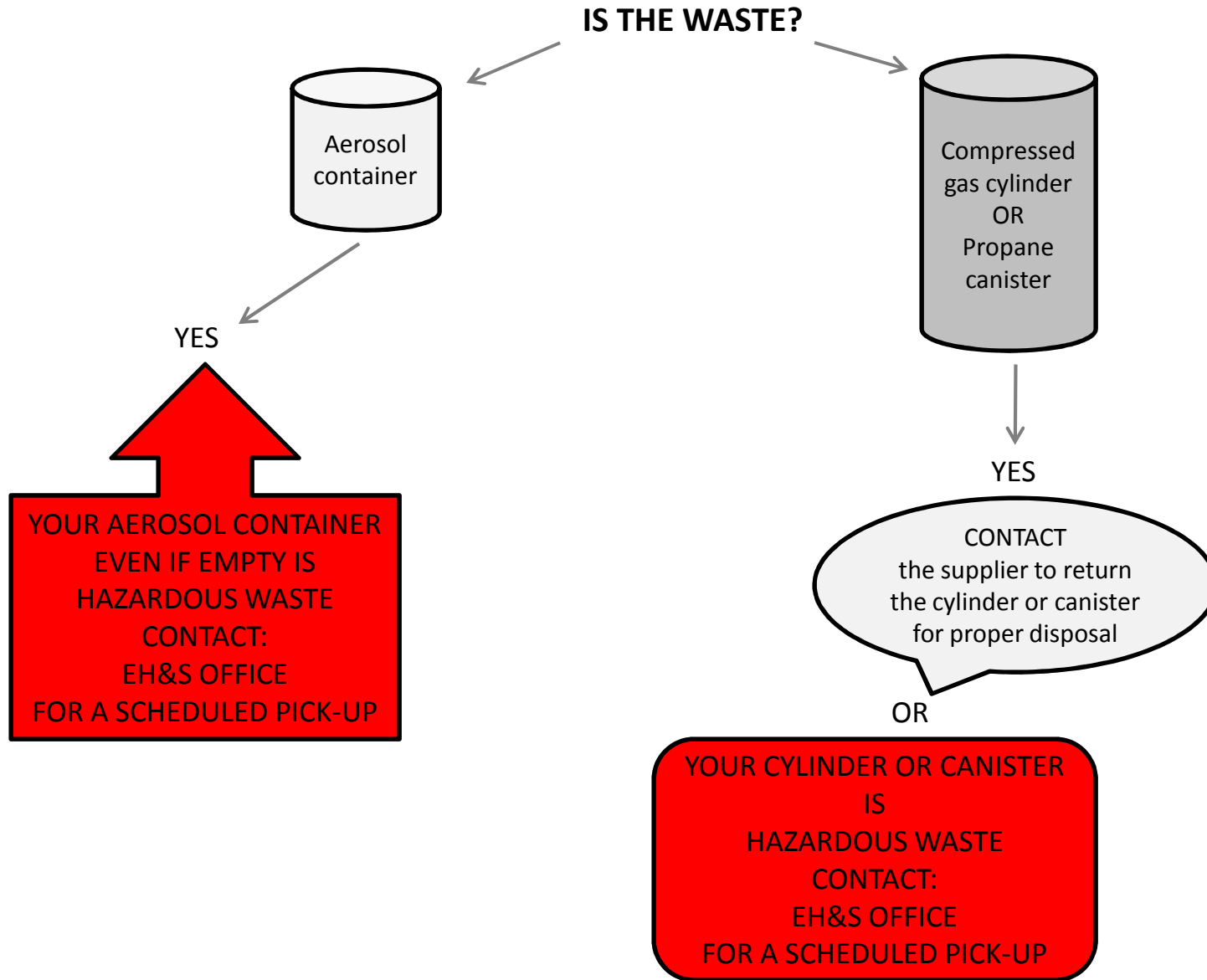
Plaster	Ceiling materials
Electrical wire insulation	Fire door material
Roofing material	Boiler insulation
Floor tile and mastic	
Sheet rock and joint compound	

YES

**YOUR WASTE IS
REGULATED WASTE
CONTACT:
EH&S OFFICE
FOR A SCHEDULED PICK-UP**

Hazardous Waste Classification

COMPRESSED GAS CYLINDERS & AEROSOL CONTAINERS



Hazardous Waste Classification

PHOTOGRAPHIC CHEMICAL WASTE

IS THE WASTE?

**A PHOTOGRAPHIC
CHEMICAL PRODUCT**

Chemical
Products
have they
been used?

NO

Unused
photographic
chemical products
may be
HAZARDOUS WASTE
Refer to
Corrosive & Toxicity
flowcharts
or
CONTACT
the EH&S OFFICE

Fixer,
Bleach-fixer (blix),
or
Color Stabilizer?

YES

To recycle the
waste use the
silver recovery
units .

Any questions

CONTACT
the
EH&S OFFICE

Selenium
or
Sepia Toner?

YES

**THE WASTE IS
HAZARDOUS
WASTE**

**CONTACT:
EH&S OFFICE
FOR A
SCHEDULED
PICK-UP**

Developer
or
Hypo clearing
Agent?

YES

**THE WASTE
MAY BE
DISPOSED
OF
DOWN
THE
SEWER DRAIN**

Indicator
Stop Bath?

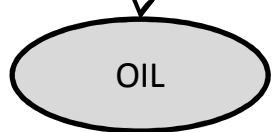
YES

In a well ventilated
area using PPE;
the solution should
be neutralized with
sodium bicarbonate
which should be add
slowly to the solution
to prevent foaming.
Once neutralized –
dispose down sewer
drain.

Hazardous Waste Classification

OIL & ANTIFREEZE WASTE

IS THE WASTE?



YES

YES

Type of Oil
▪ Motor oil
▪ Power steering fluid
▪ Gear oil
▪ Hydraulic oil
▪ Kerosene
▪ Transmission fluid
▪ Diesel fluid
▪ Fuel oil

Type of Antifreeze
▪ Ethylene Glycol
▪ Coolant from Chillers/ HVAC systems
▪ Propylene Glycol

YES

YES

Recycle the waste in the designated drum.
For assistance CONTACT EH&S OFFICE

NO

THEN

IS THE WASTE?

▪ Hazardous chemical contaminated with oil	▪ Degreasing solvents
▪ Gasoline	▪ Chlorinated solvents
▪ Oily water	▪ Freon or Freon contaminated with oil
▪ Radiator flush	▪ Transformer oil
▪ Brake fluid	

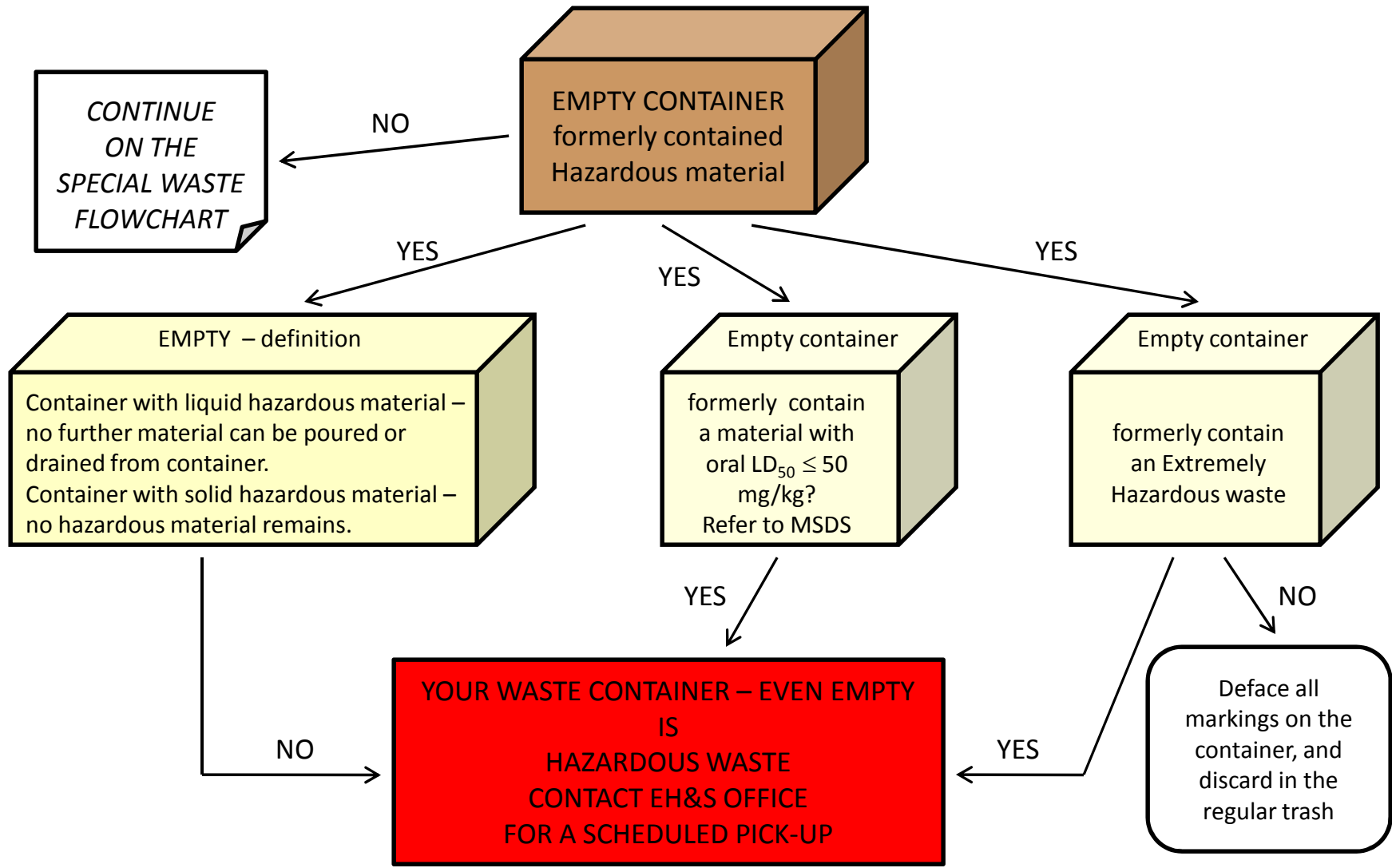
YES

**YOUR WASTE IS HAZARDOUS WASTE
CONTACT:
EH&S OFFICE
FOR A SCHEDULED PICK-UP**

Hazardous Waste Classification

EMPTY CONTAINERS

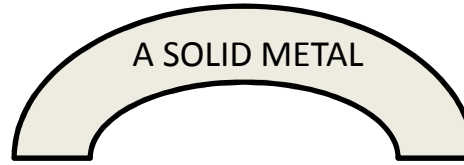
IS THE WASTE?



Hazardous Waste Classification

SCRAP METAL WASTE

IS THE WASTE?



NO

YES

The waste can not be recycled as scrap metal.
CONTINUE ON THE SPECIAL WASTE FLOWCHART

TYPE OF METAL:
Aluminum
Copper
Iron
Lead
Steel
Zinc

NO

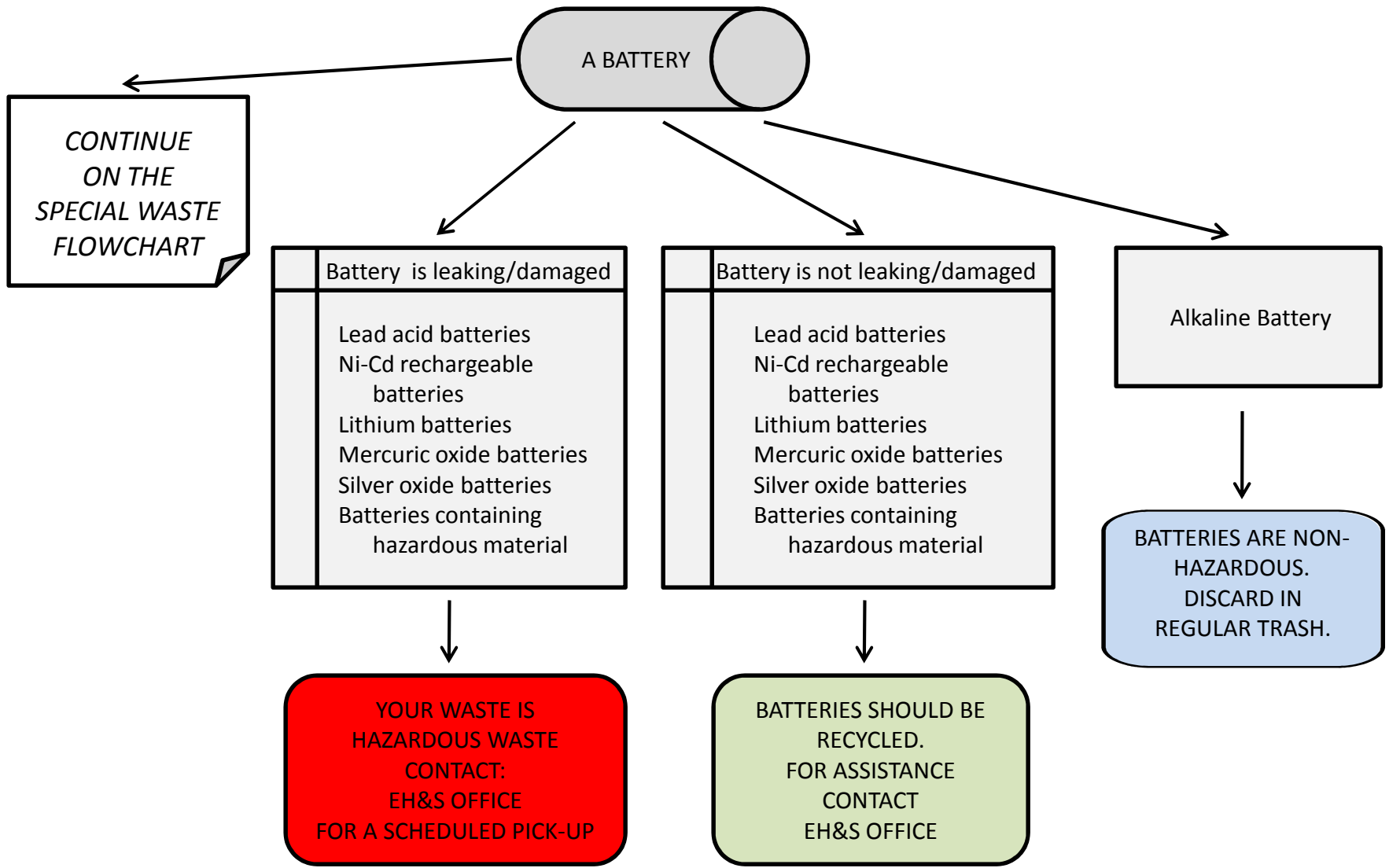
YES

Once you have more than 5 pounds of accumulated metal,
CONTACT EH&S OFFICE

Hazardous Waste Classification

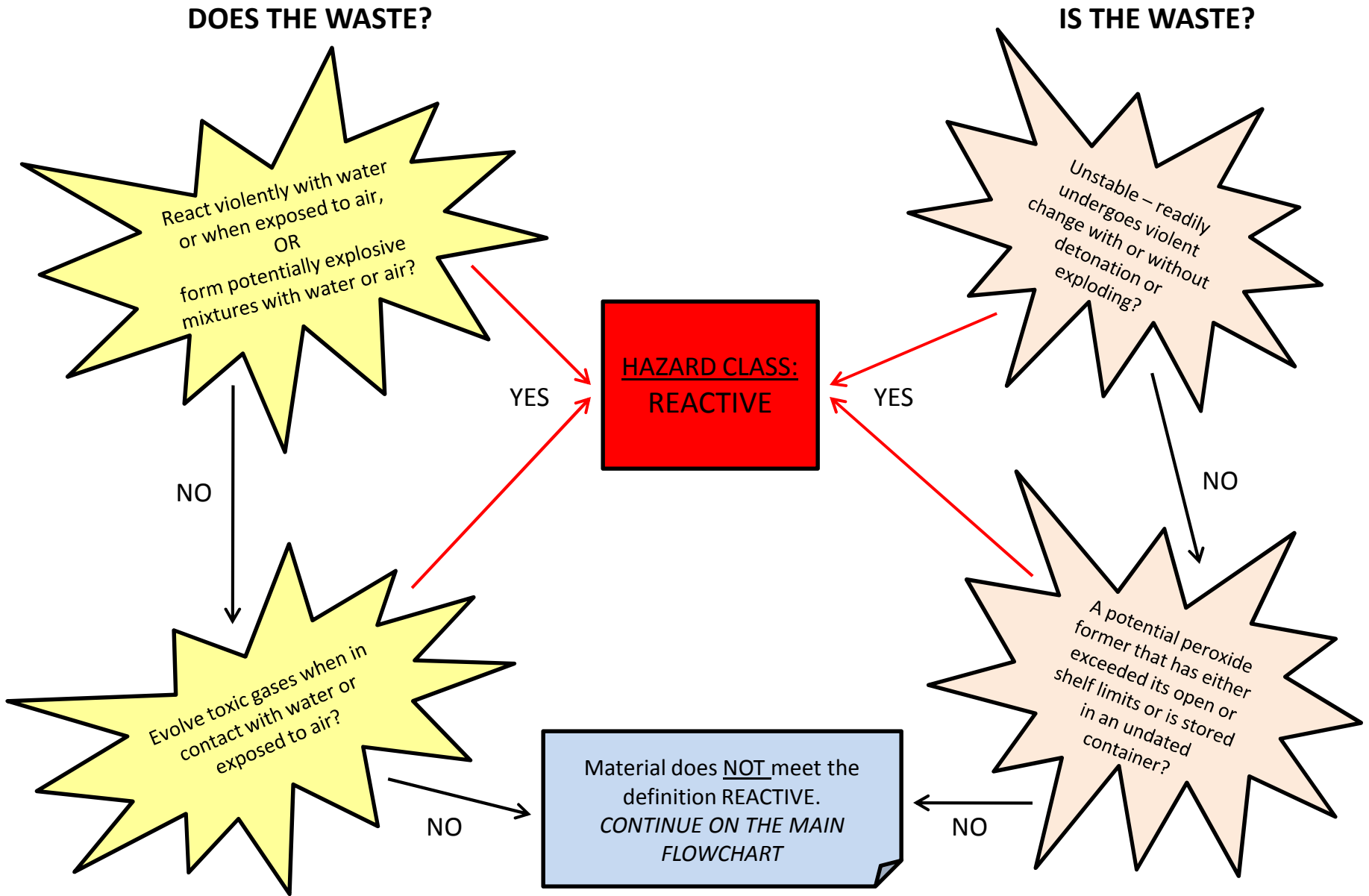
USED BATTERIES

IS THE WASTE?



Hazardous Waste Classification

REACTIVE WASTE



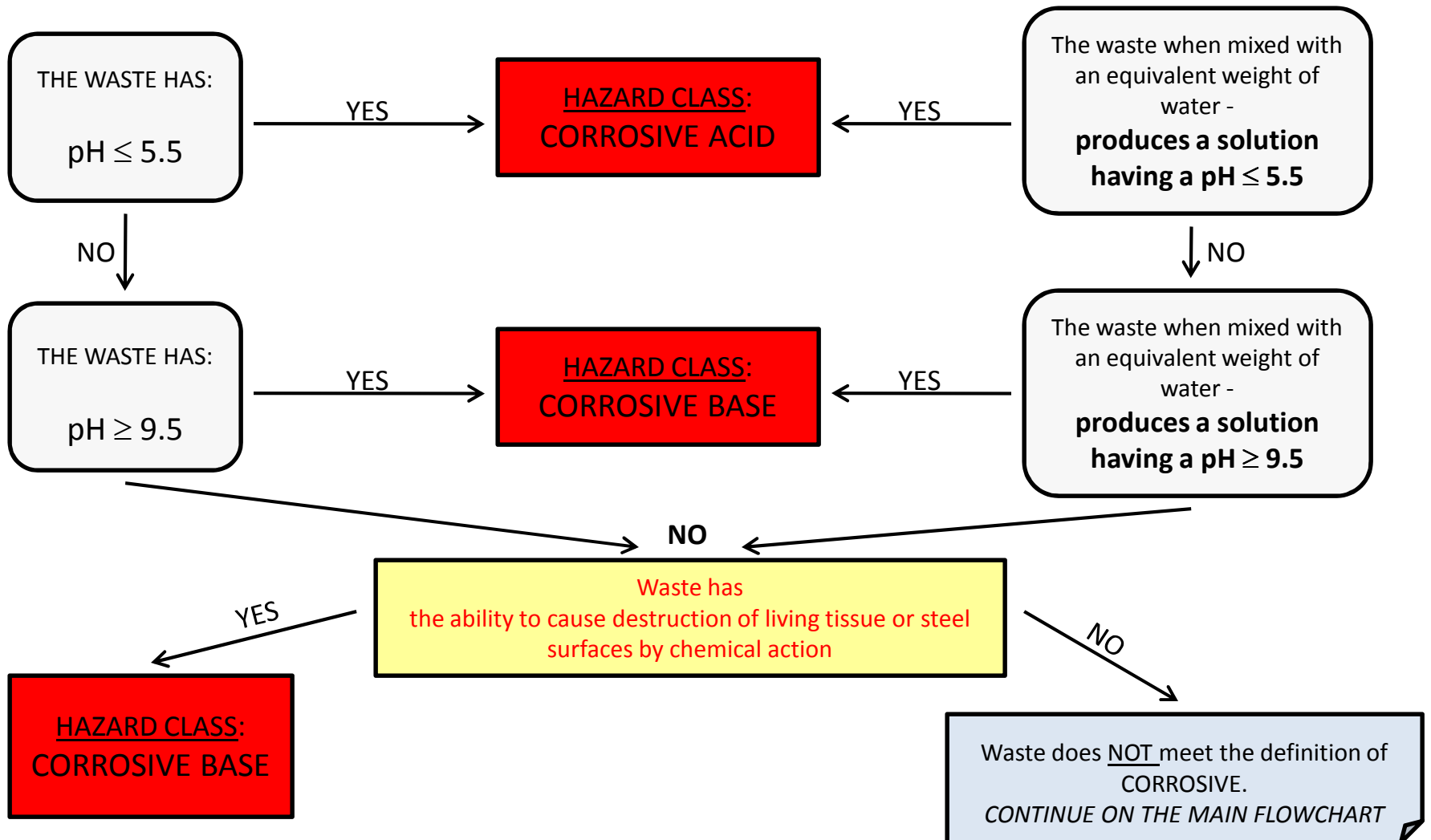
Hazardous Waste Classification

CORROSIVE WASTE

PHYSICAL STATE OF THE WASTE?

AQUEOUS LIQUID WASTE

NON-AQUEOUS OR NON-LIQUID WASTE



Hazardous Waste Classification

IGNITABLE WASTE

PHYSICAL STATE OF THE WASTE?

LIQUID WASTE

IS THE FLASH POINT OF THE LIQUID WASTE ≤ 140 °F / ≤ 60 °C ?

NO

IS THE LIQUID WASTE: AN AQUEOUS SOLUTION CONTAINING $\geq 24\%$ ALCOHOL?

NO

YES

YES

SOLID WASTE

IS THE SOLID WASTE – CAPABLE OF CAUSING FIRE THROUGH FRICTION, MOISTURE ABSORPTION, OR SPONTANEOUS CHEMICAL CHANGE?

YES

NO

HAZARD CLASS:
IGNITABLE

Waste does NOT meet the definition of IGNITABLE.
CONTINUE ON THE MAIN FLOWCHART

Hazardous Waste Classification

OXIDIZING WASTE

DOES THE WASTE?

Release oxygen when reacting with another chemical?

YES

NO

React with organic materials resulting in fire or the generation of heat? (i.e., oils, greases, wood, cloth, etc.)

YES

NO

Waste does NOT meet the definition of an OXIDIZER
CONTINUE ON THE MAIN FLOWCHART

IS THE WASTE?

A member of one of the common oxidizer?
OR
An aqueous solution of any of the common categories which exhibit any of the oxidizing properties stated to the left?

YES

NO

HAZARD CLASS:
OXIDIZER

Hazardous Waste Classification

TOXICITY WASTE

TOXICITY?

THERE ARE MANY DIFFERENT CRITERIA AND LISTS MAKING IT A COMPLICATED PROCESS WHEN DETERMINING WASTE AS HAZARDOUS WASTE DUE TO THE TOXICITY.

REVIEW THE GUIDELINES IN THE HAZARDOUS WASTE PLAN, AND THE MATERIAL SAFETY DATA SHEETS TO DETERMINE THE TOXICITY.

FOR QUESTIONS REGARDING THE TOXICITY OF A WASTE, CHECK WITH THE EH&S OFFICE BEFORE DISPOSING OF THE WASTE.

NO

Waste does NOT meet the definition
of TOXIC
*CONTINUE ON THE MAIN
FLOWCHART*

Medical/Biological Waste Decision Process

Is the Waste?

- A bloody fluid, blood product, or an item contaminated with visible blood?
- A culture of an agent infectious to humans?
- A used hypodermic syringe NOT filled with hazardous materials?

- Generated from the treatment or immunization of animals or humans?
- Generated by research involving live or attenuated pathogenic organisms?

If YES to any of these questions:

The waste is a regulated BIOMEDICAL WASTE

At the point of origin, all sharps must be placed in a red puncture resistant biomedical waste collection container, and all non-sharps waste must be placed in a properly labeled biomedical waste bag in a labeled and puncture-proof outer container. Sealed sharps containers and red bags will be collected by the custodial staff.

Generated from work involving recombinant DNA?

Yes

The waste may be regulated under NIH guidelines. Contact EHS Office for further assistance.

The following may be placed into the regular trash, if not contaminated with biomedical waste:

- Non-infectious pipettes, tubes, tubing or other glass or plastic containers
- Non-infectious scalpels, razors, glass or plastic (e.g. centrifuge tubes, microcentrifuge or Eppendorf tubes, curettes and capped tubes) These materials must be packaged to prevent sharp points or edges from protruding through a regular trash bag containers and do not present a threat of infection to humans.
- Non-infectious solid animal dissection waste that was previously in a preservative. This waste (no liquid preservative) must be double bagged in thick plastic bags and sealed.

Hazardous Waste Classification

DRAIN DISPOSAL

