



ENVIRONMENTAL HEALTH & SAFETY

Thesis Chemistry Safety 2023



REED COLLEGE

WE WILL DISCUSS....

- EHS contact
- New/unique research
- Finding hazard information for chemicals you are working with
- Controlling these hazards
- Accidents, injuries, emergency response
- Waste

CONTACT INFORMATION

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Physical Plant

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he/his

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WANT TO DO 'NEW TO REED' STUFF?

- Talk to your advisor
 - Is this possible given expertise/facility design?
- New to Reed hazards??
 - Reach out to EHS to discuss
 - Hazard control
 - Waste
 - Facility needs
 - Other options

EXAMPLES OF 'NEW TO REED'

- Human blood/bodily fluids
- Radioactive materials outside of reactor
- High risk group pathogens
- Uncommon recombinant DNA (non-typical lab strains)
- Pyrophoric
- Perchloric acid
- Highly hazardous chemicals

SAFETY DATA SHEETS (SDSs) AT REED

<https://www.reed.edu/ehs/>

The screenshot displays the MSDSonline interface for Reed College. The top navigation bar includes the Reed College logo and the MSDSonline logo. Below this, there are tabs for 'Safety Center' and 'MSDS Search'. A left sidebar contains navigation options: 'All Products', 'Locations', 'Manufacturers', and 'MSDSonline Search'. The main content area is titled 'All Products' and features a search bar with a search icon and an 'Advanced Search' link. Below the search bar are several filter sections: 'Locations' with a 'Select Location' dropdown, 'Groups' with a 'Select Group' dropdown, 'Product Data' with a 'Select Product Data' dropdown, 'Product Status' with an 'Active' dropdown, and 'Custom Module' with an empty text field. 'Search' and 'Reset' buttons are positioned below these filters. A text prompt indicates 'Product name starts with: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 0-9 #-+'. Below this, it shows '8675 Products' and an 'Export' button. A table lists the first three products:

	Product	Revision Date	Product CAS #	Custom 1
1	2-Aminobenzimidazole 2-Benzimidazolamine Manufacturer: Sigma-Aldrich Corporation ALDRICH CHEMICAL COMPANY	09/28/2017	934-32-7	
2	Tungstic acid Manufacturer: Sigma-Aldrich Corporation ALDRICH CHEMICAL COMPANY	09/14/2017	7783-03-1	
3	(Diacetoxyiodo)benzene Manufacturer: Sigma-Aldrich Corporation ALDRICH CHEMICAL COMPANY	09/22/2017	3240-34-4	

HAZARD CONTROL

- Laboratory Attire: Long pants, close toed shoes, no skin exposed between pants and socks/shoes
- PPE: gloves, eye protection, lab coat
- Laboratory Hygiene: Do not eat or drink in the lab, change gloves frequently, and wash hands often



EMERGENCY RESPONSE

IN CASE OF INJURY/CHEMICAL

CONTAMINATION

1. Give first aid immediately, if needed. If chemicals are on skin or in eyes, flush affected area for at least 15 mins either with the shower, eyewash, or sink. If possible, remove clothing or chemically soaked item/s.
2. Remove victim from immediate cause of injury, if safe to do so. Call Community Safety (503-788-6666 or ext 6666).
3. Refer to the [BBP Exposure Control Plan](#) if blood or bodily fluids are present use Universal Precautions: assume all blood and bodily fluids are infectious. Call Community Safety to provide first aid

I'M HURT. NOW WHAT?



Reed College
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Portland, Oregon 97202-8199

ACCIDENT/INCIDENT REPORT

Please complete and submit this report immediately after you become aware of an injury or work-related illness of your employee. **Print clearly in black ink** and attach to form #801 if a worker's compensation claim is filed. Forward a copy to the Human Resources Office within 24 hours. This form is to be completed by the **supervisor**, not the employee.

Section I: INJURED PERSON: Faculty Staff Student Worker Student Volunteer Visitor

1. Name of injured _____ telephone number _____
Address _____
2. Date and time event *occurred* _____ Date and time event *reported* _____
To whom reported? _____
3. Location (room, bldg, dock, etc) _____
4. Describe accident/incident fully. Attach separate sheet if necessary. _____

Complete Form

HAZARDOUS WASTE

- Do not put anything down the drain unless instructed to do so
- Label your containers with: Name, date, contents and hazards!
Containers must be labeled as soon as you start collecting waste in it
- Hazardous waste goes to Chem 211 for final processing before shipping off site

QUESTIONS?

Environmental Health and Safety

Top floor of Physical Plant

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503-517-7931 for Aaron Haddeland

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<http://www.reed.edu/ehs/>