# SPILL CLEANUP

## Background

Safety while cleaning up a spill is imperative. Proper supplies and PPE are needed for the type and size of the spill. Spill kits relative to the types of hazardous material used must be available and fully stocked with fresh supplies. Small spills can be cleaned by trained occupants without requested additional help. Any spill that occupants are uncomfortable with should be reported to Environmental Health Services immediately. The diagram below will help guide you through the response to a spill in your area.

## If Exposed

### Chemical Spill on Body or Clothes

o Remove contaminated clothing.

o Rinse mucous membranes and exposed skin surfaces thoroughly for at least 15 minutes.

o If there are chemical burns, cover with sterile dry dressing and bandages.

o Seek medical attention with a CSU Authorized Physician if you develop appreciable eye or respiratory irritation.

o Notify your supervisor and EHS immediately.

o File a Worker’s Compensation report within 4 days of your exposure: [Work Comp Link](https://live.origamirisk.com/Origami/IncidentEntry/Direct?token=DNtMWu3CO%2Fy23a0TMn2BYMV%2BNFrsvSeaWuPKGdXVK2aV3r5lXKQ4XcXtz2z0KcJoZngqOiQ%2BVz65ZKNaOWr09AkVuE%2FsaypG0C%2F1bRQwzW%2FtlNxtBi88L5eFzVxYyD%2B2)

### Chemical Splash into Eyes

o Immediately rinse eye and inner surface of eyelid with water from the emergency eyewash station for 15 minutes, forcibly holding the eye open.

o Seek medical attention with a CSU Authorized Physician.

o Notify your supervisor and EHS immediately.

o File a Worker’s Compensation report within 4 days of your exposure: [Work Comp Link](https://live.origamirisk.com/Origami/IncidentEntry/Direct?token=DNtMWu3CO%2Fy23a0TMn2BYMV%2BNFrsvSeaWuPKGdXVK2aV3r5lXKQ4XcXtz2z0KcJoZngqOiQ%2BVz65ZKNaOWr09AkVuE%2FsaypG0C%2F1bRQwzW%2FtlNxtBi88L5eFzVxYyD%2B2)

### Needlestick/Puncture Exposure when Handling Chemical

o Wash the affected area with antiseptic soap and warm water for 15 minutes.

o Seek medical attention with a CSU Authorized Physician.

o Notify your supervisor and EHS immediately.

o File a Worker’s Compensation report within 4 days of your exposure: [Work Comp Link](https://live.origamirisk.com/Origami/IncidentEntry/Direct?token=DNtMWu3CO%2Fy23a0TMn2BYMV%2BNFrsvSeaWuPKGdXVK2aV3r5lXKQ4XcXtz2z0KcJoZngqOiQ%2BVz65ZKNaOWr09AkVuE%2FsaypG0C%2F1bRQwzW%2FtlNxtBi88L5eFzVxYyD%2B2)

### Ingestion (Swallowing):

o Dilute, inactivate or absorb by drinking milk or water.

o Affected person should be kept warm and at rest.

o Seek medical attention with a CSU Authorized Physician.

o Notify your supervisor and EHS immediately.

o File a Worker’s Compensation report within 4 days of your exposure: [Work Comp Link](https://live.origamirisk.com/Origami/IncidentEntry/Direct?token=DNtMWu3CO%2Fy23a0TMn2BYMV%2BNFrsvSeaWuPKGdXVK2aV3r5lXKQ4XcXtz2z0KcJoZngqOiQ%2BVz65ZKNaOWr09AkVuE%2FsaypG0C%2F1bRQwzW%2FtlNxtBi88L5eFzVxYyD%2B2)

## Process

### Large Spills

**Follow Lab/Building Emergency Response Procedures (Activate Alarms, Treat Life-Threatening Injuries, Evacuate Non-essential Personnel, Prevent Access to Area)**

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**Call CSU PD (911), Contact EHS at 491-6745 or the EHS Emergency Pager (970-419-5250), Contact Building Proctor**

**Contain Spill if Possible**

### For Small Leaking Containers

* Place leaking container into a large container that can be sealed, or into a chemical fume hood
* Wipe contaminated surfaces with paper towels wetted with water (if not water reactive) or other appropriate cleaner that will not react with the chemical
* Place paper towels into a labeled plastic airtight bag and prepare for disposal per CSU hazardous waste protocols:
	+ Label bag appropriately (“Hazardous Waste – Spill Cleanup Materials; *Spill Material, Chemical, Including Concentration*, your Name and Date”)
	+ Store in a satellite accumulation area or well-ventilated area until Hazardous Waste pickup.

### Small Spills (Less than 4 Liters)

### Use the ABCDEF Acronym

**A**lert Others and Acquire Spill Kit

* Isolating the area with caution tape and/or sign

Protect your **B**ody with PPE

* Appropriate Lab Coat
* Appropriate Eye Protection
* Appropriate Gloves (2 Pair)

**C**ontain/Absorb Liquid

* Stop liquids from entering drains
* Work from the outside in towards the middle using paper towels and/or appropriate absorbent materials
* DO NOT use biohazard bags unless required
* Use a scoop or dustpan and brush to pick up towels/absorbent and **dispose of all** spill materials into a bag
* Exceptions for use of a garbage bag:
	+ Sharps: If the spill contains sharps, use mechanical methods to pick up spill materials and dispose of in a labeled puncture resistant container

**D**econtaminate Spill Area

* Wipe area with paper towels wetted with soapy water or another appropriate cleaner **TWICE**

**E**liminate Waste

* Follow CSU Hazardous Waste protocols
	+ Seal bag
	+ Label bag appropriately (“Hazardous Waste – Spill Cleanup Materials; *Spill Material Chemical, Including Concentration*, your Name and Date”)
	+ Store in a satellite accumulation area or well-ventilated area until Hazardous Waste pickup.

**F**reshen Up

* If reusing outer gloves, wash with soap and water before removal
* Discard inner gloves and wash Hands

**G**et Your Supervisor

* Report the spill to your supervisor and replenish spill kit materials

### Contact Information

* Contact EHS to report spill incidents and for guidance on disposal of spill materials, or for assistance if you do not feel comfortable trying to clean up the spill yourself: 491-6745
* Contact Occupational Health Services with health questions or concerns: 491-3102

Spill Response

**Emergency**

**>4 Liters, Injuries, Highly Toxic, Cannot be Contained, PPE Not Available, Threat of Secondary Event, People or Property Endangered, No SDS**

* **Follow Lab/Building Emergency Response Procedures (Activate Alarms, Treat Life-Threatening Injuries, Evacuate Non-essential Personnel, Prevent Access to Area)**
* **Call CSUPD (911), Contact EHS (491-6745) or the EHS Pager (970-419-5250)**
* **Contact Building Proctor**
* **Contain Spill if Possible/Safe**

**Follow ABCDEFG Acronym for All Spills**

**Alert** Others and Acquire Spill Kit - Isolate area.

Protect your **Body** with PPE - Lab Coat, Eye Protection, Gloves (2 Pair).

**Contain/Absorb** - Stop from entering drains, work from the outside in towards the middle, DO NOT use biohazard bags unless required, use a scoop or dustpan and brush to pick up material and **dispose of all** spill materials into a bag. If the spill contains sharps dispose of in a labeled puncture resistant container.

**Decontaminate** - Wipe area with soapy water or another appropriate cleaner **TWICE.**

**Eliminate** Waste - Seal bag, Label bag appropriately, dispose of appropriately.

**Freshen Up** - If reusing outer gloves, wash with soap and water before removal, discard inner gloves, wash hands.

**Get Your Supervisor** - Report to your supervisor and replenish spill kit materials

### Radiological

* Utilize time, distance and shielding.
* Call CSU Radiation Control Office at 970-491-4835. If office closed, call 911.

### Chemical

### • If exposed, use the eye wash or safety shower for 15 minutes

### Biological

### Cover the spill with paper towels or absorbent material.

### Pour freshly prepared 10% bleach/appropriate disinfectant around the spill and allow to flow into spill.

### After appropriate contact time, wipe up and dispose of as biohazard waste.

### Repeat procedure. If spill contains recombinant nucleic acids, notify the Biosafety Office as soon as possible at 970-491-0270.

EHS chemical spill assistance is available 24/7: During business hours (Monday-Friday 8 a.m. to 5 p.m.), call 970-491-6745. • After business hours, call 911 or the EHS pager to reach on call EHS staff.