

MSDS--SAFETY AND HAZARDOUS MATERIALS – SIGN – OFF SHEET

The following should be filled out for all labs using reagents other than water. It is the student's responsibility to read each MSDS required for the experiment and to understand the potential hazards before attempting the experiment. MSDS links can be accessed via the web or at web.mst.edu/~tbone/ and the subsequent Chem 1319 link.

Experiment	Reagent Name	Major Hazards of Reagent
Zinc Coating	1. Hydrochloric Acid, HCl	<i>Strong Acid. Toxic by inhalation. Causes burns. Irritating to respiratory system.</i>
	2. Hydrogen gas	<i>Danger: flammable high-pressure gas.</i>
	3. Zinc	<i>Spontaneously flammable in air. Irritating to eyes and respiratory system.</i>
Empirical Formula	4. HCl	See 1.
	5. Hydrogen gas	See 2.
	6. Aluminum (foil)	<i>Pyrophoric (USA) Highly Flammable (EU). Irritant.</i>
	7. Copper Chloride	<i>Harmful if swallowed. Irritating to eyes, respiratory system and skin.</i>
	8. Copper, Cu (metal)	<i>Highly flammable.</i>
15 Test Tubes	9. HCl	See 1.
	10. Ammonia	<i>Strong Base. Corrosive. Harmful if swallowed. Causes burns. Lachrymator.</i>
	11. Barium Nitrate	<i>Oxidizing. Toxic. Harmful by inhalation and if swallowed.</i>
	12. Copper Nitrate	<i>Oxidizing. Corrosive. Harmful if swallowed. Causes burns.</i>
	13. Ferric Nitrate	<i>Oxidizing. Irritating to the eyes, respiratory system and skin.</i>
	14. Lead (II) Acetate	<i>Irritating to the eyes, respiratory system and skin. Toxic. Carcinogen 2B.</i>
	15. Lithium Carbonate	<i>Sensitizer. Harmful if swallowed. Possible carcinogen.</i>
	16. Nickel Sulfate	<i>Sensitization by inhalation and skin contact. Oxidizing. May cause cancer. Toxic if swallowed.</i>
	17. Potassium Chromate	<i>Irritating to eyes, respiratory system and skin. Oxidizing.</i>
	18. Potassium Nitrate	<i>Target organs: blood, central nervous system. Harmful contact with skin and if swallowed.</i>
	19. Potassium Oxalate	<i>Harmful if swallowed. Possible carcinogen. Sensitization by inhalation and skin contact.</i>
	20. Potassium Thiocyanate	<i>Harmful by inhalation, contact and if swallowed. Contact with acids liberates very toxic gas.</i>
	21. Sodium Chloride	<i>No known hazards.</i>
	22. Sodium Sulfide	<i>Corrosive. Contact with acids liberates toxic gas. Causes burns. Toxic if ingested.</i>
	23. Sulfuric Acid	<i>Strong acid. Causes burns. Water reactive.</i>

Experiment	Reagent Name	Major Hazards of Reagent
15 Test Tubes (cont.)	24. Tin (II) Chloride	<i>Corrosive. Harmful if swallowed. Causes burns.</i>
Thermochemistry	25. HCl	See 1.
	26. Sodium Hydroxide, NaOH	<i>Strong Base. Caustic. Causes caustic burns.</i>
Antacid	27. HCl	See 1.
Determination	28. NaOH	See 26.
	29. Aluminum Hydroxide	<i>Irritant. Irritating to eyes.</i>
	30. Calcium Carbonate	See 13.
		<i>Irritating to eyes, respiratory system and skin.</i>
	31. Magnesium Hydroxide	
		<i>No known hazards.</i>
	32. Sodium Bicarbonate	
		<i>Harmful. Known laxative.</i>
	33. Phenolphthalein	<i>Possible Carcinogen. Possible sensitizer.</i>
		<i>Caution: Avoid contact and inhalation.</i>
	34. Bromocresol Green	<i>Irritant. Irritating to eyes.</i>
Gas Laws	35. Sodium Bicarbonate	See 32.
	36. Acetic Acid, 5%	<i>Combustible. Corrosive. Causes severe burns.</i>

I have read and understood the MSDS's for all of the reagents on both sides of this form (Updated 160108):

Student's Name (Printed) _____ Signed _____

Student No.: _____ Semester: _____ Lab Section: _____

Date: _____ Witnessed By: _____

(TA's Last Name Printed & Signature – TA will sign upon receipt.)