

**Table 5.34.** Copy this form as a student practice worksheet.

**STUDENT PRACTICE IN READING AN SDS**

It is important that students know the hazards associated with chemicals they use in laboratory investigations. Having students fill out an SDS for hydrochloric acid is an excellent practice to teach students how to read an SDS. Teachers must make an SDS file of the chemicals that will be used in the laboratory. During pre-lab, teachers must inform their students of the chemical hazards associated with any chemical use in the laboratory investigation.

**SDS Activity for Chemicals**



Title of Laboratory / Classroom		Date					
Chemical Name	NFPA / Fisher Science Education Rating	HMIS® III Rating	Flinn Scientific, Inc. Rating	SAF-T-DATA™ (J.T. Baker) Rating	GHS Rating	Personal Protective Equipment (PPE)	Waste Disposal Method
	Health	Health	Health	Health	Health		
	Flammability	Flammability	Flammability	Flammability	Environmental		
	Reactivity	Physical Hazard	Reactivity	Reactivity	Physical		
	Special	PPE	Exposure	Contact	N/A		
	Health	Health	Health	Health	Health		
	Flammability	Flammability	Flammability	Flammability	Environmental		
	Reactivity	Physical Hazard	Reactivity	Reactivity	Physical		
	Special	PPE	Exposure	Contact	N/A		
	Health	Health	Health	Health	Health		
	Flammability	Flammability	Flammability	Flammability	Environmental		
	Reactivity	Physical Hazard	Reactivity	Reactivity	Physical		
	Special	PPE	Exposure	Contact	N/A		
	Health	Health	Health	Health	Health		
	Flammability	Flammability	Flammability	Flammability	Environmental		
	Reactivity	Physical Hazard	Reactivity	Reactivity	Physical		
	Special	PPE	Exposure	Contact	N/A		
	Health	Health	Health	Health	Health		
	Flammability	Flammability	Flammability	Flammability	Environmental		
	Reactivity	Physical Hazard	Reactivity	Reactivity	Physical		
	Special	PPE	Exposure	Contact	N/A		

Instructions:  
 A. Fill out green cells with the chemical's hazard ratings for each rating system. HMIS® III, Flinn Scientific and SAF-T-DATA™ systems rate lowest (1) to highest (4). GHS rates lowest (1) to highest (4).  
 B. Indicate appropriate PPE with letters A-K. See the Table "Personal Protective Equipment Icons and Codes" in the Chemical Management chapter of *Science Laboratory Safety Manual*, published by Science & Safety Consulting Services.  
 C. Indicate appropriate waste disposal method.

HMIS® = Hazardous Materials Identification System (NTPCA)  
 GHS = Globally Harmonized System of Classification and Labeling of Chemicals  
 Refer to the Chemical Management chapter of the *Science Laboratory Safety Manual* for additional information.  
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Always check the Material Safety Data Sheet (MSDS).