

Are CHEMetrics products considered hazardous waste? How do I dispose of them?

Hazardous waste must be identified, managed and disposed according to federal, state and local regulations. Once our products (used or unused) are in a customer's possession, the customer is considered the waste generator according to federal regulations. The waste generator bears ultimate legal responsibility for making hazardous waste determinations and deciding how to dispose of the waste. CHEMetrics is not a licensed waste treatment or disposal facility and is not permitted to advise customers about waste management, nor are we permitted to accept returned products from customers for disposal.

Title 40 of the Code of Federal Regulations (CFR) part 261 describes the federal hazardous waste regulatory program and the process that must be followed to determine if a waste is hazardous. The US Environmental Protection Agency (EPA) regulates hazardous waste under the Federal Resource Conservation and Recovery Act (RCRA). For more detailed information about these regulations, visit the US EPA website at <https://www.epa.gov/hwgenerators>.

For guidance regarding hazardous waste determinations, analysts should consult with their company's regulatory affairs or environmental compliance department who will be familiar with RCRA. Otherwise, it is advisable to contract with a licensed waste disposal company in order to ensure that the waste is properly disposed. A limited list of waste disposal companies is provided below.

Note: No endorsement of these companies by CHEMetrics is intended or implied.

- Heritage Environmental Services: www.heritage-enviro.com
- Veolia: www.veolianorthamerica.com
- U.S. Waste Industries, Inc.: www.uswonline.com
- Clean Harbors Environmental Services: www.cleanharbors.com

Federal laws do not mandate that waste be tested by an analytical laboratory to determine whether it is hazardous. Generator knowledge and product information found on the Safety Data Sheet (SDS) can be utilized instead of laboratory analysis to characterize the waste.

The following examples illustrate relevant sections found on CHEMetrics SDS documents that can assist with waste characterization and disposal decisions.

Note: When disposing of used CHEMetrics products, the hazards associated with the samples themselves must also be considered when making hazardous waste determinations.



Composition of the reagent (individual chemical components and concentration) is provided in **section 3** of the SDS.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
water	CAS No 7732-18-5	≥ 81		
sulfuric acid	CAS No 7664-93-9	16	Acute Tox. 3 / H331 Skin Corr. 1A / H314 Eye Dam. 1 / H318 Carc. 1A / H350	
Ammonium molybdate tetrahydrate	CAS No 12054-85-2	2		
ammonium metavanadate	CAS No 7803-55-6	≤ 1	Acute Tox. 3 / H301 Acute Tox. 4 / H332 Eye Irrit. 2 / H319 Repr. 2 / H361 STOT RE 1 / H372	

Section 9 of the SDS provides physical and chemical properties of the reagent as well as a description, including the reagent volume.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Product description Vacu-vials Ampoules: Sealed glass ampoules, 13 mm OD, for instrumental colorimetric water analysis. Each Vacu-vial™ ampoule contains approximately 0.8 - 2 mL of liquid reagent sealed under vacuum. Test kits contain 30 ampoules.

CHEMets Refills: Sealed glass ampoules, 7 mm OD, for visual colorimetric water analysis. Each CHEMets™ ampoule contains approximately 0.2 - 0.5 mL of liquid reagent sealed under vacuum. Refills contain 30 ampoules, test kits contain 1 refill.

Appearance

Physical state	liquid
Color	pale yellow
Particle	not relevant (liquid)
Odor	odorless

Other safety parameters

pH (value)	<1 (acid)
Melting point/freezing point	0 °C
Initial boiling point and boiling range	120 °C
Flash point	not determined
Evaporation rate	Not determined
Flammability (solid, gas)	not relevant, (fluid)
Vapor pressure	not determined