



UNIVERSITY OF
CALGARY

DEPARTMENT OF GEOSCIENCE

SAFE WORK INSTRUCTION FOR USING QUATERNARY O

Hazard Review

Irritant to skin, eyes, mouth and respiratory tract		
---	--	--

1. Read the safety data sheet prior to using this chemical.
2. Keep storage containers undamaged and closed.
3. The boiling procedure should be performed under local exhaust and workers must wear a lab coat, closed toed shoes, chemically resistant gloves and safety glasses.
4. Workers must wash their hands after use.
5. An eyewash and shower must be accessible.
6. In case of contact with eyes, immediately flush with copious amounts of water for at least 15 minutes.
7. In case of skin contact, immediately wash the affected area with soap and water.
8. If respiratory irritation occurs from inhaling vapours, move to a well ventilated area.
9. Refer to the emergency response plan for chemical spills in the event of a spill. Quaternary O is highly viscous and absorbents may only be necessary if the substance is a dilute solution.
10. While using local exhaust (a fumehood) is preferred, workers may use the following procedure as an interim method for the control of vapours:
 - a. All workers will have taken and passed the University of Calgary Respiratory Fit class and possess their own properly fitted half mask respirator with the appropriate volatile organic vapour cartridges. The record of having taken the respirator fit class will become part of the employee's training record. The doors to the lab must be shut before boiling Quaternary O.
 - b. Placards must be placed on the outside of lab door to indicate that boiling of Quaternary O is underway and that no one without respiratory protection may enter.
 - c. Worker(s) or anyone else present in the room must don and continue to wear respirators at all times during the boiling process and may not remove the respirator until they either leave the lab or the boiling process has finished and adequate time for ventilation has occurred. Workers

must wear personal protective equipment as listed above and follow the same procedures for cleanup and spill.