# STANDARD OPERATING PROCEDURES FOR HAZARDOUS AND PARTICULARLY HAZARDOUS CHEMICALS

For

**Agarose**

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| 1. PROCEDURE /  PROCESS | Agarose is used in **Building, Room.**  **Insert procedure here:** |
| 2. CHEMICAL NAME(S)  and associated  PHYSICAL and  HEALTH  HAZARDS | **Agarose – CAS# 9012-36-6** is a white to light beige powder and one of two components of agar. It is commonly used in electrophoresis to separate DNA.   * **Hazardous in case of ingestion.** * **Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.**   Exposure Limits**:**   * No occupational exposure limits have been established for this chemical. This does not mean that this substance is not harmful. Safe work practices should always be followed.   \***Always refer to the Safety Data Sheet for the most detailed information**\* |
| 3. NAME OF TRAINER /  RESOURCE  PERSON | **Principal Investigator Name, Building, Room, Phone Number**  **Secondary contact Name, Building, Room, Phone Number** |
| 1. LOCATION OF   HEALTH & SAFETY  INFORMATION | The Safety Data Sheet (SDS) for agarose is located in the Laboratory Safety Manual in **Building, Room**.  Labeling: Containers shall either have original warning label affixed or a label identifying the contents and hazards. |
| 5. PROTECTIVE  EQUIPMENT | Wear chemical safety goggles, nitrile rubber gloves, and a fully buttoned lab coat. (Note: Always check the manufacturer’s glove compatibility chart for proper glove selection.) Working within a properly functioning, certified laboratory chemical fume hood is recommended. |
| 1. WASTE DISPOSAL   PROCEDURES | **Waste Agarose** must be managed as Dangerous Waste. It should be collected in a sealable, compatible waste container. Keep away from incompatible substances such as oxidizing agents.  A completed Dangerous Waste label should be attached when waste is first added to the container. When container is full or no longer being used complete a Chemical Collection Request Form, and deliver to the Waste Accumulation Area Operator at **Building, Room, Phone Number.** |
| 7. DESIGNATED AREA  INFORMATION | The Agarose is stored and dispensed in **Building, Room**.  Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels as low as possible. If user operations generate dust, fume or mist, use ventilation (e.g. fume hood, snorkel vent, etc) to keep exposure to airborne contaminants as low as possible.  The designated area(s) should be shown on the floor plan in Laboratories Chemical Hygiene Plan. |
| 8. DECONTAMINATION  PROCEDURES | **Upon Accidental Exposure:**  In case of **eye contact**, flush eyes with copious amounts of water at an emergency eyewash station for at least 15 minutes and consult a physician if irritation occurs.  In case of **skin contact**, flush skin with copious amounts of water for 15 minutes and consult a physician if irritation occurs.  In case of **inhalation**, move person to fresh air and consult a physician.  In case of **ingestion**, consult a physician and follow instructions on SDS.  **Upon Accidental Release**:  If a small amount of agarose is released (it can be cleaned up in 15 minutes or less) and you have been appropriately trained to clean it up, you may do so. Trained personnel should wear at the minimum nitrile rubber gloves, safety glasses or chemical safety goggles, and a fully-buttoned lab coat. (Note: Always check the manufacturer’s glove compatibility chart for proper glove selection.)  Additional PPE such as respirators are not necessary but may be desired for nuisance levels of dust or if a large amount of agarose is released (Note: You **must** be medically cleared, fit tested and enrolled in WSU’s Respiratory Protection Program to wear a respirator). If you desire to wear a respirator and are not trained, fit tested and medically cleared to wear one, call EH&S.  Use appropriate tools and place material in an appropriate waste disposal container (resealable bag, etc.) and dispose of as hazardous waste (see above WASTE DISPOSAL PROCEDURES). Avoid dust formation.  As with all accidents, report any exposure as soon as possible to your Principal Investigator or Supervisor. Additional health and safety information on agarose can be obtained by referring to the SDS or by calling the EH&S Office (335-3041). |
| 1. SPECIAL STORAGE   AND HANDLING  PROCEDURES | Store in a tightly closed container in a dry, cool, and well-ventilated place away from sources of heat or ignition. Avoid formation of dust. Prevent from freezing.  Keep away from incompatible materials such as strong oxidizing agents. |

**Certification of Hazard Assessment**

Is this document a certification of Hazard Assessment for the processes identified within? ***Yes No***

If yes, provide the name of the person certifying the Hazard Assessment and the date it was performed:

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Name Date

The location of the Hazard Assessment is indicated in the document preceding this form.

**Certificate of Employee Training**

Name of person providing training for employees working with this process:

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The following employees have been trained in when, where and how to use selected PPE, the maintenance, limitations and disposal of the PPE selected, and have demonstrated the correct use of the PPE selected on the reverse of this certification.

**Name**  **Date Trained**

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