

This webinar is adapted from the training curriculum Seguridad en las Lecherías:
Immigrant Dairy Worker Health and Safety Training developed by the Upper Midwest Agricultural Safety and Health Center, Migrant Clinicians Network and the National Farm Medicine Center.

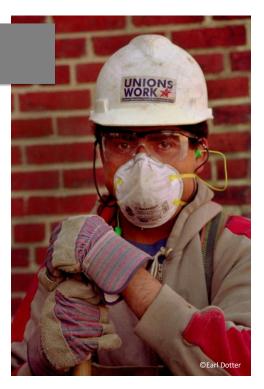






We will learn:

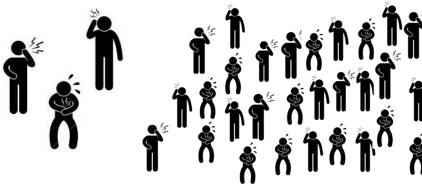
- How workers are exposed to chemicals
- The effects of chemicals on worker health
- Basic safety practices
- How community health workers can help workers improve chemical safety on the job
- How to train workers about chemical safety





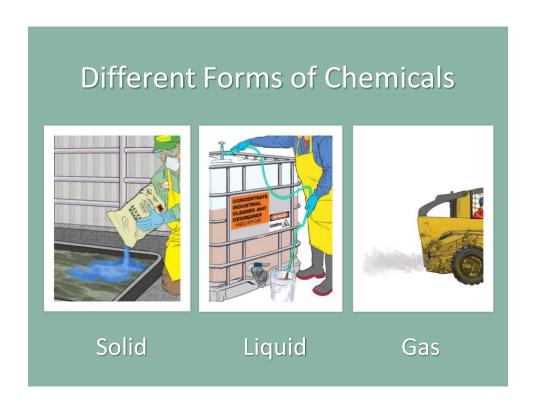
Despite the plant being sealed, the forklifts remained in use













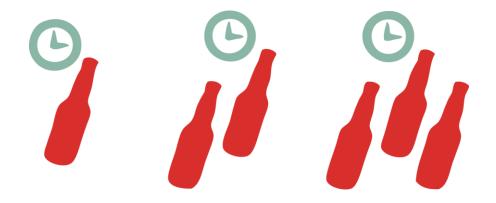
Health Hazard





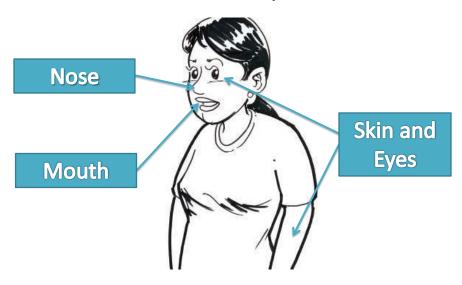
Do you know someone who has been harmed or become ill from working with chemicals?





Dose-time relationship

Routes of Exposure



?

Which of the following DOES NOT contribute to the way in which chemicals affect an individual?

Other factors that impact how chemicals harm you

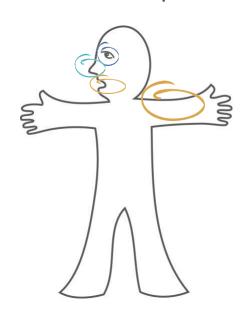
- ✓ Type of chemical
- ✓ Gender
- ✓ Age
- ✓ Health condition
- ✓ Body size
- ✓ Duration of exposure







Routes of Exposure





How can workers protect themselves from ammonia exposure?







Other common exposures





Workers are required to receive chemical safety training in a language they understand.

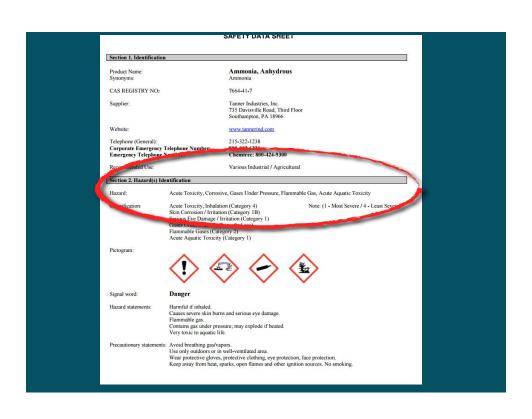


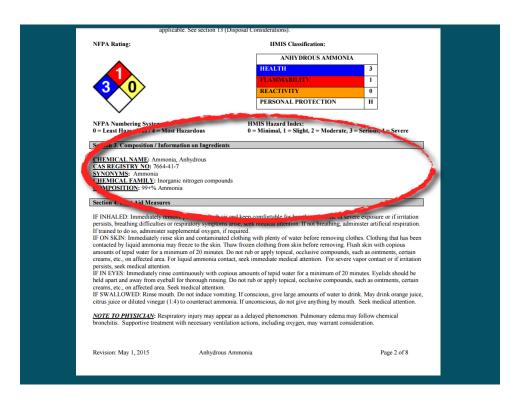




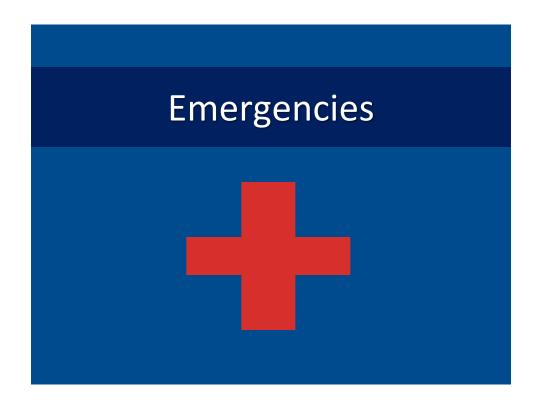


Which of the following information is provided in the Safety Data Sheet?





Section 8. Exposure Controls / Personal Protection EXPOSURE LIMITS FOR AMMONIA: (Vapor) 35 mg / m³ PEL 27 mg / m³ STEL 18 mg / m³ REI 50 ppm, 8 hour TWA NIOSH 35 ppm, 25 ppm 15 minutes 18 mg / m³ TLV 27 mg / m³ STEL 8 hour TWA 25 ppm, 35 ppm, 15 minutes PROTECTIVE EQUIPMENT: EYE/FACE PROTECTION: Chemical splash goggles should be worn when handling anhydrous ammonia. A face shield can be worn over chemical splash goggles as additional protection. Do not wear contact lenses when handling anhydrous ammonia. Refer to 29 CFR 1910.133 for OSHA eye protection requirements. SKIN PROTECTION: Ammonia impervious gloves and clothing (such as neoprene, butyl and Teflon) should be worn to prevent contact during normal operations, such as loading/unloading and transfers. Chemical boots can be worn as additional protection. RESPIRATORY PROTECTION: Respiratory protection approved by NIOSH for ammonia must be used when applicable safety and health exposure limits are exceeded. For escape in emergencies, NIOSH approved respiratory protection should be used, such as a full-face gas mask and canisters/cartridges approved for ammonia or SCBA. A positive pressure SCBA is quited for entry into normatic gas mass and catastics carringes approved in aminotina micro. A positive per aminotina atmospheres at or above 300 pm (IDLH). Refer to 29 CFR 1910.134 and ANSI: Z88.2 for OSHA respiratory protection requirements. Also refer to 29 CFR 1910.114 for respiratory protection requirements at bulk installations. VENTILATION: Local exhaust should be sufficient to keep ammonia vapor below applicable exposure standards. FOR A HAZARDOUS MATERIAL RELEASE RESPONSE: Level A and/or Level B ensemble including positive-pressure SCBA should be used. A positive pressure SCBA is required for entry into ammonia atmospheres at or above 300 ppm (IDLH). gases o vapores inflamables. Deben usarse detectores de gas cuando existe la posibilidad de que se produzcan escapes de gases tóxicos. En los sitios próximos a cualquier posible exposición debe haber regaderas y estaciones de emergencia para lavarse los ojos. Use equipo a prueba de explosiones. Asegúrese de cumplir con todos los reglamentos nacionales y locales. Equipo de e de protección. Ventilación insuficiente: use protección para



Call 911

- Address of the work place
- Condition of sick or injured worker
- Name of the chemical or explanation of the accident



The role of CHWs in promoting chemical safety at work.



How to train workers about chemical safety

- Trainer guide
- Activities
 - ✓ Hand lotion
 - ✓ Games with prizes for the winner
- Demonstrations
 - ✓ Use Personal Protective Equipment
 - ✓ How to put on and take off gloves
 - ✓ How to wash hands
 - ✓ Bring copies of labels and Safety Data
 Sheets



You can do it!

Learn:

- Policies and procedures
- Risks
- How to protect yourself
- What to do in an emergency
- Attend trainings

Use:

- Personal Protective Equipment
- Appropriate clothes and shoes

Practice:

- Stop, look, and think safely before doing
- Report any dangers or injuries





Post test polling questions

Which of the following can contribute to the way in which chemicals affect an individual? Select all that apply.

- a) Body size
- b) Body temperature
- c) Age
- d) Duration of exposure

Workers are required to receive chemical safety training in a language they understand.

- True
- False

Which of the following information is provided in the Safety Data Sheets?

- a) First Aid measures
- b) Handling and storage
- c) Symptoms of exposure
- d) Instructions for disposal
- e) All of the above

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Thank you for your participation



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References

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This presentation is adapted from Lesson 5: **Working Safely with Chemicals**, an educational module from *Seguridad en las Lecherías: Immigrant Dairy Worker Health and Safety Training Curriculum*.

http://www.migrantclinician.org/seguridad

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