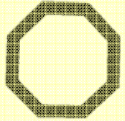


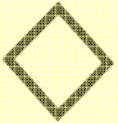
Chemical Hazards: A Swine Workers' Guide



PRECAUTIONARY SYMBOLS



DANGER



WARNING



CAUTION



WATER PROOF HAT: After use, wash with detergent, rinse & dry. **DO NOT WEAR CLOTH HATS!**



CHEMICAL GOGGLES: After use, wash with detergent, rinse & dry. **DO NOT WEAR PERMEABLE OR SOFT CONTACT LENSES WHEN HANDLING CHEMICALS!**



RESPIRATORS: Change cartridges when odors are detected through them, when breathing becomes restricted, or according to manufacturers directions. After use remove & store cartridges in a sealed plastic bag. Wash respirator with detergent, rinse & dry & store in sealed plastic bag.



COVERALLS: Wash long sleeved cotton coveralls daily. Wash separately from all other laundry.



RUBBER APRON: Inspect for leaks. After use wash in detergent & water, rinse & dry.



RUBBER GLOVES: Inspect unlined chemical resistant gloves for leaks, after use wash in detergent & water, rinse & dry. **DO NOT USE LEATHER OR CANVAS GLOVES!**



RUBBER BOOTS: Inspect for leaks, after use wash in detergent & water, rinse & dry. Wear unlined rubber boots & **DO NOT USE LEATHER BOOTS!**

SOLVENTS

Fuel
Degreaser
Paint
Paint thinner

- **Skin:** skin irritant- redness, dryness & rashes.
- **Eyes:** strong irritant.
- **Inhalation:** headaches, lightheadedness, dizziness.
- **Ingestion:** POISON!

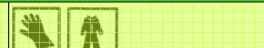


- **Skin:** Wash with soap & water.
- **Eyes:** Rinse with water for 15 minutes.
- **Inhalation:** Move victim to fresh air, if problems persist seek medical attention.
- **Ingestion:** Contact Poison Control Centre!

VETERINARY DRUGS

Vaccines
Antibiotics

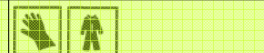
- Accidental injections.
- Inflammation around injection site & severe allergic reaction.



- Seek medical attention immediately!

Hormones
(Prostaglandins)

- Menstrual irregularities, miscarriage, & respiratory distress.



- Seek medical attention immediately!

Dewormers
(Atguard® - Organophosphates)
(Ivermectin®, Piperazine®)

- **Atguard®:** skin allergy, headaches, muscle twitching, cramps, nausea, diarrhea, respiratory irritant, respiratory depression, weakness, sweating, blurred vision, tearing, salivation, seizures, mental confusion, loss of consciousness *Can lead to serious additive toxicity.*
- **Ivermectin®, Piperazine®:** dizziness, vomiting, shortness of breath, numbing & tingling of extremities.



- **Skin:** Wash with soap & water.
- **Eyes:** Rinse with water for 15 minutes.
- **Ingestion:** Contact Poison Control Centre!

CLEANERS & SANITIZERS

Hypochlorite
(Bleach,
Javex®)

- **Skin:** chemical burn.
 - **Eyes:** strong irritant, potential for burns & blindness.
 - **Inhalation:** strong irritant.
 - **Ingestion:** POISON!
- *Irritating gas release increases in hot water, releases chlorine gas, especially with acids. Dangerous gas released when mixed with formaldehyde*.



Phenols
(Tek-Trol®,
Prosolve®)

- **Skin:** irritation, prolonged exposure may cause pain, redness, swelling & tissue damage.
 - **Eyes:** stinging, tearing, pain, redness & swelling.
 - **Inhalation:** respiratory tract irritation.
 - **Ingestion:** nausea, vomiting & diarrhea.
- *Irritating gas release increases in hot water.*



- **Skin:** Wash with soap & water.

Quaternary ammonia compounds
(Proquat®)

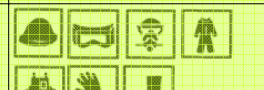
- **Skin:** irritation, risk of burns.
- **Eyes:** severe irritation, eyelid inflammation, crying eyes & high risk of permanent damage.
- **Inhalation:** nose & throat irritation, coughing, long term exposure = nose bleeding & chronic bronchitis.
- **Ingestion:** severe irritation, affects muscles, bloating, vomiting & gas. Risk of convulsions, shock & respiratory arrest.



- **Eyes:** Rinse with water for 15 minutes.
- **Inhalation:** Move victim to fresh air, if problems persist seek medical attention.

Persulphates
(Virkon®)

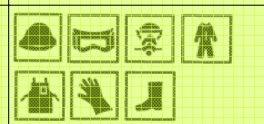
- **Skin:** allergy.
- **Eyes:** potential chemical burn.
- **Inhalation:** respiratory irritant - coughing, choking, wheezing.
- **Ingestion:** POISON!



- **Ingestion:** Contact Poison Control Centre!

Formaldehyde (Fumalyse®)

- **Skin:** irritation, risk of burns.
 - **Eyes:** severe irritation, may cause chemical burns.
 - **Inhalation:** nose & throat irritation, coughing, long term exposure = nose bleeding & chronic bronchitis.
 - **Ingestion:** nausea, vomiting & diarrhea.
- * Irritating gas release increases in hot water.* Possible **CANCER** hazard.



INSECTICIDES

Organophosphate:
Fly bait (SNIP®)
Fly spray (Vapona®)

- Weakness, headache, tightness in chest, respiratory depression, decreased heart rate, blurred vision, non-reactive pin-point pupils, salivations, sweating, muscle twitching, nausea, vomiting, diarrhea & cramps, seizure, loss of consciousness. *Can lead to serious additive toxicity*.



- **Skin:** Wash with soap & water.
- **Eyes:** Rinse with water for 15 minutes.
- **Inhalation:** Move victim to fresh air, if problems persist seek medical attention.
- **Ingestion:** Contact Poison Control Centre!

Carbamates: Fly bait
(STARBAR®, STIMUKIL®,
BLUE STREAK®, APACHE®)

- **Skin:** irritant redness, dryness & rashes.
 - **Inhalation:** respiratory irritant.
- *Can lead to serious additive toxicity. Symptoms: weakness, dizziness, sweating, headache, salivation, nausea, vomiting, diarrhea, stomach cramps, pin-point pupils & blurred vision, lack of coordination, muscle twitching, slurred speech.*



RODENTICIDES

Coumarins & Indandiones: Rat & mouse
bait (CONTRAC®, TOMCAT®)

- **Skin:** irritant.
- **Eyes:** potential irritant.
- **Ingestion:** Nausea, vomiting, loss of appetite, extreme thirst, diarrhea, nosebleeds, bleeding gums & failure of blood to clot after skin is wounded.



- **Skin:** Wash with soap & water.
- **Eyes:** Rinse with water for 15 minutes.
- **Ingestion:** Seek medical attention immediately!

HAZARD SYMBOLS



CORROSIVE



POISON



FLAMMABLE



EXPLOSIVE

EMERGENCY NUMBERS

POISON CONTROL CENTRE
1-866-454-1212

SPILL REPORT CENTRE
Saskatchewan Environmental Safety
1-800-667-7525

**Chemical Manufacturers
Emergency Number
See container label or
Material Safety Data Sheet**

Institute of Agricultural Rural and Environmental Health
103 Hospital Drive, PO Box 120 RUH
Saskatoon, SK S7N 0W8
Phone: (306) 966-8286



Agriculture and Agri-Food Canada / Agriculture et Agroalimentaire Canada

