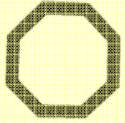


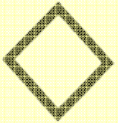
# Chemical Hazards: A Swine Workers' Guide



## 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!**

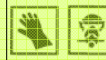


**RUBBER BOOTS:** Inspect for leaks, after use wash in detergent & water, rinse & dry. Wear unlined rubber boots & **DO NOT USE LEATHER BOOTS!**

### 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.

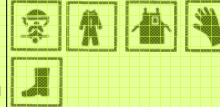


- **Skin:** Wash with soap & water.
- **Eyes:** Rinse with water for 15 minutes.
- **Ingestion:** Contact Poison Control Centre!

### CLEANERS & SANITIZERS

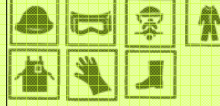
Hypochlorite  
(Bleach,  
Javex®)

- **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®)

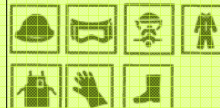
- **Skin:** irritation, prolonged exposure may cause pain, redness, swelling & tissue damage.
  - **Eyes:** stinging, tearing, pain, redness & swelling.
  - **Inhalation:** respiratory tract irritation.
  - **Ingestion:** nausea, vomiting & diarrhea.
- \*Irritating gas release increases in hot water.\*



- **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.

Persulphates  
(Virkon®)

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



- **Inhalation:** Move victim to fresh air, if problems persist seek medical attention.

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.

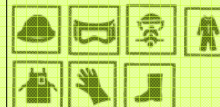


- **Ingestion:** Contact Poison Control Centre!

### 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



Agriculture, Food  
and Rural  
Revitalization