



# ZINC PHOSPHIDE

UN 1714

Shipping Name: Zinc phosphide  
Other Names: Mous-con  
Phosvin  
Ratal  
ZP



**WARNING!** • DO NOT USE WATER, CARBON DIOXIDE (CO<sub>2</sub>) OR HALOGENATED FIRE FIGHTING AGENTS! HIGHLY TOXIC AND FLAMMABLE PHOSPHINE RELEASED!

## Hazards:

- Highly flammable
- Harmful or fatal if swallowed
- Container may explode when exposed to fire
- Reacts with acids and water to produce highly toxic and flammable phosphine gas
- Decomposition products upon heating include toxic phosphorous oxides

## Awareness and Operational Level Training Response:

- Stay upwind
- Determine the extent of the problem
- Isolate the area of release or fire and deny entry
- Remove all ignition sources
- For container exposed to fire evacuate the area in all directions because of the risk of explosion
- Evacuate the immediate area and downwind for a large release
- Notify local health and fire officials and pollution control agencies
- If material or contaminated runoff enters waterways, notify downstream users of potentially contaminated water

## Description:

- Gray solid
- Faint garlic-like odor
- Sinks in water and reacts with water releasing highly toxic and flammable phosphine gas; is insoluble in water
- Highly flammable

## Operational Level Training Response:

### RELEASE, NO FIRE:

- Cover material to protect from wind, rain or spray
- Prevent runoff from entering sewers and waterways if it can be done safely well ahead of the release

### FIRE:

- If material is on fire and conditions permit, DO NOT EXTINGUISH.
- Do not allow water to come in contact with the material; if material is on fire, use Class D extinguisher to extinguish
- If material is not leaking, cool exposed containers with large quantities of water from unattended equipment or remove intact containers if it can be done safely
- If cooling streams are ineffective (unvented container distorts, bulges or shows any other signs of expanding), withdraw immediately to a secure location

## First Aid:

- Do not put yourself in danger by entering a contaminated area to rescue a victim
- Provide Basic Life Support/CPR as needed
- Decontaminate the victim as follows:
  - ◆ Inhalation - remove the victim to fresh air and give oxygen if available
  - ◆ Skin - remove and isolate contaminated clothing (including shoes) and wash skin with soap and large volumes of water for 15 minutes
  - ◆ Eye - rinse eyes with large volumes of water or saline for 15 minutes
  - ◆ Swallowed - do not make the victim vomit
- Seek medical attention
- Toxic effects may be delayed
- For skin burns decontaminate with water and apply a clean dry dressing

CAS: 1314-84-7