



Ashok Alco - chem Limited (AACL)

Chemical Division - Acetaldehyde

	Acetaldehyde
Hazards identification	<ul style="list-style-type: none">• Extremely flammable• Harmful if swallowed• Inhalation of vapors may cause asphyxiation, nausea, vomiting.• Irritation to skin, eye, respiratory tract.
Materials for packaging	<ul style="list-style-type: none">• Mild Steel Pressure Tank or Cylinder with Pressure Valve and Nitrogen Blanket
Suitable fire extinguishing media	<ul style="list-style-type: none">• Alcohol foam / Water spray• Polyvalent foam / BC powder• Carbon dioxide
Special protective equipment for fire fighters	<ul style="list-style-type: none">• Compressed air / oxygen apparatus• Gas tight suits• Protective Goggles• Full protective clothing with NOISH approved self contained breathing apparatus.
Environmental precaution	<ul style="list-style-type: none">• Prevent soil and water pollution• Substance must not be discharged into sewerage system• Contain leaking substance and pump over in suitable containers• Plug the leak, cut off the supply• Dam up the liquid spill• Curtail evaporation
Accidental Release Control Measures	<ul style="list-style-type: none">• Inhalation of concentrated vapors may cause serious damage to nose, throat and lungs. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.• Swallowing may cause severe injury leading to death. Symptoms include sore throat, vomiting and diarrhea. During ingestion do not induce vomiting. Give large quantities of water or milk. Never give anything by mouth to unconscious person. Get medical help immediately.• Contact with concentrated solution may cause serious damage to skin and eyes followed by skin sensitization and loss of sight. In case of contact with skin or eyes, immediately splash plenty of water for at least 15 minutes.• If swallowed, if conscious, immediately induce vomiting.



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Handling	<ul style="list-style-type: none">• Observe very strict hygiene• Avoid contact• Use spark/explosion proof appliances and lighting system• Take precautions against electrostatic charges• Handle unidentified empty containers as full ones• Do not discharge the waste into drain• Water may be used to flush spills away from exposures and to dilute spills to non-flammable mixtures. Water diluted acid can react with metals to form hydrogen gas.
Storage	<ul style="list-style-type: none">• Keep container tightly closed• Store in dry and dark area, protect against frost.• Ventilation at floor level• Fireproof storeroom• Provide the tank with earthing. <p>Additional Storage Precautions for Acetaldehyde :</p> <ul style="list-style-type: none">• Cylinder should be stored upright and firmly secured to prevent falling.• Do not allow temperature above 125°F (51.67°C) , where material is stored.
Recommended engineering controls	<ul style="list-style-type: none">• Measure the concentration in air regularly• Work under local / exhaust ventilation• Store away from : heat sources, ignition sources , combustible materials, oxidizing agents, bases, metals, alcohols• Use non-sparking type tools and equipment, including explosion proof ventilation.• Area should be flame proof.• Maintain Oxygen level above 19.5%