

# **MATERIAL SAFETY DATA SHEET**

## **SECTION I - GENERAL INFORMATION**

Production Code . . . . . Fire Preventer™  
 Chemical Name & Syn. . . . . Proprietary compounds in an aqueous solution  
 Trade Name & Syn. . . . . Fire Preventer™  
 Chemical Family. . . . . Proprietary - Trade Secret  
 DOT Shipping Name . . . . . Not established (N.O.S.)  
 DOT Hazard Class. . . . . Non-Flammable

## **SECTION II - HAZARDOUS INGREDIENTS**

	OCCUPATIONAL	WEIGHT	VAPOR
TRADE/CHEMICAL NAME	CAS#	EXPOSURE LIMITS	% mm Hg @ Temp.
Ammonia	7664-41-7		1%

*NOTE: This product may liberate higher ammonia concentrations upon heating in the aqueous form.*

## **SECTION III - PHYSICAL DATA**

Boiling Point . . . . . 212°F. (100°C.)  
 Specific Gravity (H<sub>2</sub>O=1). . . . . 1.056  
 Vapor Pressure (mm Hg) . . . . . (100°C.) 760 mm Hg (approx.)  
 Percent Volatile by Vol. (%) . . . . . Less than 90%  
 Vapor Density (Air=1). . . . . Liquid heavier than air  
 Evaporation Rate . . . . . Less than .01  
 Solubility in Water . . . . . Solubility at 100%  
 pH. . . . . 7.1 to 7.7 (typical)  
 Appearance & Odor . . . . . Clear amber liquid with ammonia odor

## **SECTION IV - FIRE & EXPLOSION HAZARD DATA**

Flash Point & Test Method . . . . . Non-Flammable  
 Flammable Limits, % by Volume . . LEL: N/A UEL: N/A  
*This compound is classified as a fire retardant.*  
 Auto Ignition Temperature LEL. . . N/A  
 Auto Ignition Temperature UEL. . . N/A  
 Extinguishing Media . . . . . N/A  
 Special Fire Fighting: Should be tested atmospherically before entering fire proximity.  
 Unusual Fire & Explosion Hazards: None

## **SECTION V - HEALTH HAZARD DATA**

Acute. . . . . None  
 Chronic . . . . . Slight eye irritant  
 Symptoms of Exposure. . . . . (Dusts) Eye irritation & redness; nasal irritation, sore throat, coughing, slight dryness to skin  
 Medical Cond. Aggravated by Exp. Not established (personnel should be screened for allergies to ammonia compounds).  
 Carcinogen - NTP Program . . . . . No  
 Carcinogen - IARC Program . . . . . No  
 Primary Route(s) of Entry . . . . .  
 1. Inhalation: Remove from proximity of chemical and to fresh air.  
 2. Eyes: Flush with large volume of water to dilute irritant; eye injuries should be attended by medical personnel.  
 3. Skin: Wash with soap and water - avoid open cuts and abrasions when handling this liquid.  
 4. Ingestion: Drink large volumes of water.

## SECTION VI - REACTIVITY DATA

Stability - Unstable . . . . .  
Stable . . . . . This is a stable material  
Condition to Avoid . . . . . Not established  
Incompatibility . . . . . Strong acids  
Hazardous Decomposition Products Ammonia gases, carbon dioxide  
Hazardous Polymerization  
May Occur. . . . .  
Will Not Occur. . . . . X  
Conditions to Avoid . . . . . High heat at elevated pressures

## SECTION VII - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be taken in handling and storage: Keep isolated from extreme heat while in sealed containers.  
Other precautions. . . . . None  
Steps to be taken in case material is released or spilled:  
Large Spills: Dike with absorbents and/or bonding agents to prevent spread.  
Small Spills: May be diluted and washed away. Always consult State and Federal regulations or local codes before disposing of any chemical compound.  
Waste disposal methods: (Consult Federal, State and Local Regulations) Minor spills that are cleaned up are not considered hazardous substances. Consult applicable regulations.

## SECTION VIII - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection (Specify type): In dusts; Class "2B" particulate filter respirator  
Ventilation: Meet OSHA PEL  
Local Exhaust: Meet OSHA PEL  
Special: None  
Protective Gloves: Use vinyl or rubber in repeated contact with skin  
Eye Protection: For liquids monogoggle or safety glasses with side shields  
Other Protective Clothing or Equipment: None specified  
Work/Hygienic Practices: Always wash person and clothes as normal hygienic practices after using  
SPECIAL PRECAUTIONS: Personnel susceptible to allergenic reactions or known chemical sensitivities should consult their supervisor for a review of these conditions prior to exposure to this material, to determine any potential susceptibility or abnormal reactions.

### **DISCLAIMER:**

*The information contained herein is based on the data available to us and is believed to be correct. However, the manufacturer makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof, and assumes no responsibility for injury from the use of the product described herein. The manufacturer assumes no liability for incidental, consequential or direct damage of any manner or kind, regardless of cause, including negligence.*