

03/27/2008 12:49 FAX 920 830 5099

PACON

002/005

**11518-XXXX**

## OSHA HAZARD COMMUNICATION

NA = Not Applicable

MSDS 1U

**MATERIAL SAFETY DATA SHEET**

I. PRODUCT IDENTIFICATION				
MANUFACTURER'S NAME Wausau Paper		REGULAR TELEPHONE NO. 715/693-2111 EMERGENCY TELEPHONE NO.		
ADDRESS 100 Main Street, Mosinee, WI 54455-1497				
TRADE NAME Grade 5148				
SYNONYMS Dual Surface Flame Resistant School Paper (white)				
SHIPPING NAME DOT: Not Restricted				
IATA: Not Restricted				
II. HAZARDOUS INGREDIENTS <sup>2</sup>				
MATERIAL OR COMPONENT	CAS NO.	%	OSHA PEL	ACGIH TLV
Ammonium Phosphate	7722-76-1	> 1	None	None
Ammonia Fumes (May be generated during use)	7664-41-7		50 ppm	25 ppm
Ammonium Sulfate	7783-20-2	> 1	None	None
III. PHYSICAL DATA				
BOILING POINT, 760 MM HG	NA		MELTING POINT 170°C (decomposes)	
SPECIFIC GRAVITY (H <sub>2</sub> O = 1)	NA		VAPOR PRESSURE Not known	
VAPOR DENSITY (AIR = 1)	NA		SOLUBILITY IN H <sub>2</sub> O % BY WEIGHT 0 to 15	
% VOLATILES BY VOL.	About 5% water		EVAPORATION RATE (BUTYL ACETATE = 1) NA	
APPEARANCE AND ODOR	White paper with possibly of an ammonia odor		pH (AS IS) NA pH (1% SOLN)	
IV. FIRE AND EXPLOSION DATA				
FLASH POINT (Test Method)	AUTOIGNITION TEMPERATURE			
FLAMMABLE LIMITS IN AIR, % BY VOLUME	LOWER	NA	UPPER	
EXTINGUISHING MEDIA	Water, Multipurpose Dry Chemical			
SPECIAL FIRE FIGHTING PROCEDURES	Firefighters should wear chemical cartridge respirators with ammonia cartridges or self-contained breathing apparatus.			
UNUSUAL FIRE AND EXPLOSION HAZARD	Although flame resistant, the paper will char when exposed to fire releasing ammonia, NO <sub>x</sub> , PO <sub>x</sub> , and SO <sub>x</sub> toxic fumes.			

White + Flameless Stock  
Peacock<sup>TM</sup> Flame Retardant

03/27/2008 12:49 FAX 920 830 5099

PACON

003/005

**V. HEALTH HAZARD INFORMATION**

HEALTH HAZARD DATA	HAZARD CLASSIFICATION	BASIS FOR CLASSIFICATION	SOURCE
ROUTES OF EXPOSURE (INDICATE PRIMARY) INHALATION (primary)	None unless heated to decomposition then irritating ammonia fumes can be evolved	Experience	Wausau Paper
SKIN CONTACT (primary)	Slight irritant	Tests on rabbits.	MSDS for Ammonium Phosphate, 2/22/01 Ammonium Sulfate MSDS, 11/16/01
SKIN ABSORPTION	None known		
EYE CONTACT	Slight irritant	Ammonium sulfate may cause moderate eye irritation.	Ammonium Sulfate MSDS, 11/16/01
INGESTION	Ammonium Phosphate is moderately toxic	LD <sub>50</sub> (rats) > 1000 mg/kg for body weight.	Ammonium Phosphate MSDS, 2/23/01
<b>EFFECTS OF OVEREXPOSURE</b>			
ACUTE OVEREXPOSURE - None known under normal conditions of use.			
CHRONIC OVEREXPOSURE - None known under normal conditions of use.			
<b>EMERGENCY AND FIRST AID PROCEDURES:</b>			
EYES: None			
SKIN: None			
INHALATION: If overexposed to ammonia fumes, remove immediately to fresh air. If breathing has stopped, give artificial respiration.			
INGESTION: Have victim drink large quantities of water to dilute the ammonia salts.			
NOTES TO PHYSICIAN - Ingestion of large quantities of phosphates may cause hypocalcemia requiring the administration of calcium gluconate.			
SIGNS AND SYMPTOMS OF OVEREXPOSURE - None known under normal conditions of use.			
MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE - Persons with impaired pulmonary function may be at increased risk when exposed to ammonia fumes.			

03/27/2008 12:49 FAX 920 830 5099

PACON

004/005

**VI. REACTIVITY DATA****CONDITIONS CONTRIBUTING TO INSTABILITY -**

Heat or fire. Heating over 100° will decompose ammonium sulfate.

**INCOMPATIBILITY -**Contact with acids or bases will produce toxic ammonia fumes. Ammonia Sulfate is an oxidizer and is incompatible with sodium oxides or metal oxides.  $KClO_3$ ,  $KNO_3$ ,  $K + NH_4NO_3$  mixture.**HAZARDOUS DECOMPOSITION PRODUCTS**When heated to decomposition very toxic fumes of  $NO_x$ ,  $NH_3$ , and  $PO_x$  are emitted. Components can hydrolyze to form phosphoric acid and sulfuric acid which are tissue irritants.**CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION**

Will not occur.

**VII. DISPOSAL, SPILL OR LEAK PROCEDURES****AQUATIC TOXICITY (E.G. 96 HR.TLM)**Ammonium Phosphate: 96HR:TLM 1000 - 100 ppm according to Sax's Dangerous Properties of Industrial Materials, Eighth Edition, 1992 (Slightly toxic)**WASTE DISPOSAL METHOD**

Incinerate or landfill according to applicable local, state and federal regulations. Make sure ammonia fumes generated do not exceed 25 ppm. Phosphoric acid and sulfuric acid may be produced so corrosion resistant materials should be used.

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED**

Restack or repackage.

**NEUTRALIZING CHEMICALS**

NA

**VIII. SPECIAL PROTECTION INFORMATION****VENTILATION REQUIREMENTS -**

Local exhaust to keep ammonia level below the ACGIH TLV of 25 ppm.

**OTHER ENGINEERING CONTROLS -**

None

**SPECIFIC PERSONAL PROTECTIVE EQUIPMENT****RESPIRATORY (SPECIFIC IN DETAIL)**

None unless product is heated evolving ammonia fume. A chemical cartridge respirator with ammonia cartridges should then be worn.

**EYE**

Goggles to prevent paper cuts.

**GLOVES**

Cloth or rubber to prevent paper cuts.

**OTHER CLOTHING AND EQUIPMENT**

None

03/27/2008 12:49 FAX 920 830 5099

PACON

005/005

**IX. SPECIAL PRECAUTIONS****PRECAUTIONARY STATEMENTS -**

This product can emit hazardous ammonia fumes if it is heated or burned or comes into contact with acids or bases.

**HYGIENIC PRACTICES TO BE FOLLOWED -**

Monitor the storage and work area periodically for ammonia levels.

**WORK PRACTICES TO BE FOLLOWED -**

None special.

**OTHER HANDLING AND STORAGE REQUIREMENTS -**

Store in a cool, dry area away from all ignition sources. Make sure ventilation is adequate in the storage area to prevent the buildup of ammonia fumes above 25 ppm. Ammonium sulfate is corrosive to carbon steel, copper and copper alloys - avoid contact with these materials.

**PROTECTIVE MEASURES DURING REPAIR AND MAINTENANCE -**

NA

**ADDITIONAL REGULATORY CONCERNS -****FEDERAL: SARA 313 Supplier Notification Statement**

This product does not contain ingredients at a level of 1% or greater on the 313 List of Toxic Chemicals.

FDA: NA

USDA: NA

CPSC: NA

TSCA: IS THIS PRODUCT, OR ALL ITS INGREDIENTS, BEING CERTIFIED FOR INCLUSION ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY OF CHEMICAL SUBSTANCES? YES

OTHER: NA

STATE: NA

**CARCINOGEN LISTING INFORMATION:**

NATIONAL TOXICOLOGICAL PROGRAM ANNUAL REPORT- Not listed

INTERNATIONAL AGENCY FOR RESEARCH ON CANCER MONOGRAPHS- Not listed

OSHA STATUS - Not listed

PREPARED BY: David J. Langton

PREPARATION DATE: Oct. 15, 1985

TITLE: Senior Product Development Engineer

LATEST REVISION DATE: August 31, 2005

COMPANY: Wausau Paper

ADDRESS: 100 Main Street, Mosinee, WI 54455-1497