

NA=Not Applicable

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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 G5153		
SYNONYMS	Black Dual Surface Flame Resistant School Paper		
SHIPPING NAME	DOT:	Not Restricted	
	IATA:	Not Restricted	

II. HAZARDOUS INGREDIENTS²

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 ₂ O=1)	NA	VAPOR PRESSURE	Not known
VAPOR DENSITY (AIR=1)	NA	SOLUBILITY IN H ₂ O % BY WT: 10 to 15	
% VOLATILES BY VOL.	About 5% water	EVAPORATION RATE (BUTYL ACETATE=1) NA	
APPEARANCE AND ODOR	Black 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			NA
FLAMMABLE LIMITS IN AIR, % BY VOLUME	LOWER	NA	UPPER	NA
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 _x , PO _x and SO _x toxic fumes.			

Peacock (5963)
Flame Retardant

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, 2/23/01 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 ₅₀ (rats) > 1000 mg/kg for body weight.	Ammonium Phosphate MSDS, 2/23/01

EFFECTS OF OVEREXPOSURE

ACUTE OVEREXPOSURE -

None known under normal conditions of use.

CHRONIC OVEREXPOSURE -

None known under normal conditions of use.

EMERGENCY AND FIRST AID PROCEDURES:

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.

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

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

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