

Rec'd Jan 2006

466337/317-251

Issued to . . . . . : School Specialty  
Sax Arts and Craft  
P.O. Box 1017

Appleton WI 54912-1017

Attention: . . . . . : Material Safety Data Sheet Coordinator

The attached Material Safety Data Sheet relates potential hazards and recommended practices for safe handling of the product that you purchased from Raabe Company.

We urge you and your employees to review the entire MSDS prior to handling, use or disposal of the product.

You are required to keep this MSDS on file for reference by company employees or government regulatory officials.

If you resell or distribute this product, you must furnish a copy of the MSDS to your customer.

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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION  
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CHEMICAL PRODUCT IDENTIFICATION:

PRODUCT CODE . . . . : 01050 000470 604  
PRODUCT NAME . . . . : WORKABLE FIXATIVE  
PRODUCT CLASS . . . . : Aerosol Product

MSDS PREPARATION DATE : 01/12/2006

MANUFACTURER IDENTIFICATION:

RAABE COMPANY  
PO BOX 1090

MENOMONEE FALLS WI 53052-1090

CUSTOMER IDENTIFICATION:

School Specialty  
Sax Arts and Craft  
P.O. Box 1017

Appleton WI 54912-1017

EMERGENCY TELEPHONE NUMBERS:

24 HOURS A DAY - CALL CHEMTREC : 800-424-9300  
INTERNATIONAL CALLS TO CHEMTREC : 703-527-3887  
8 AM TO 4:30 PM CENTRAL TIME : 262-255-9500

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SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS  
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1 N-BUTANE  
CAS# 106-97-8

N-BUTANE  
PCT BY WT: 11.0000 VAPOR PRESSURE: 879.100 MMHG @ 68F LEL 1.80

EXPOSURE LIMIT:

ACGIH TLV-TWA 800 ppm  
ACGIH TLV-STEL NO INFO  
OSHA PEL-TWA 800 ppm  
COMPANY N.E.

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 2 PROPANE  
 CAS# 74-98-6  
 PROPANE  
 PCT BY WT: 14.0000 VAPOR PRESSURE: 5585.200 MMHG @ 68F LEL 2.20  
 EXPOSURE LIMIT:  
 ACGIH TLV-TWA 1000 ppm  
 ACGIH TLV-STEL NO INFORMATION  
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3 BUTYL BENZYL PHTHALATE  
 CAS# 85-68-7  
 BUTYL BENZYL PHTHALATE  
 PCT BY WT: 1.0000 LEL .30  
 EXPOSURE LIMIT:  
 ACGIH TLV-TWA 5 mg/m3  
 ACGIH TLV-STEL N.E.  
 OSHA PEL-TWA 5 mg/m3  
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4 ACETONE  
 CAS# 67-64-1  
 ACETONE  
 PCT BY WT: 54.0000 VAPOR PRESSURE: 231.000 MMHG @ 68F LEL 2.60  
 EXPOSURE LIMIT:  
 ACGIH TLV-TWA 750 ppm  
 ACGIH TLV-STEL 1000 ppm  
 OSHA PEL-TWA 750 ppm  
 OSHA PEL-STEL 1000 ppm  
 COMPANY N.E.  
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5 GLYCOL ETHER PM ACETATE  
 CAS# 108-65-6  
 PROPYLENE GLYCOL METHYL ETHER ACETATE  
 PCT BY WT: 18.0000 VAPOR PRESSURE: 3.700 MMHG @ 68F LEL 1.30  
 EXPOSURE LIMIT:  
 ACGIH TLV-TWA NOT ESTABLISHED  
 ACGIH TLV-STEL NOT ESTABLISHED  
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 This product contains no reported carcinogens or suspected  
 carcinogens.  
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 SECTION 3 - HAZARDS IDENTIFICATION  
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EMERGENCY OVERVIEW:

Harmful if swallowed.  
 Harmful if inhaled.  
 Causes eye irritation.  
 Causes skin irritation.  
 Vapors irritating to eyes and respiratory tract.  
 Extremely flammable liquid and vapor.  
 Vapors may cause flash fire or explosion.  
 Extremely flammable aerosol.  
 Contents under pressure.

EYE:

May cause eye irritation.

SKIN:

May cause skin irritation.

INHALATION:

Exposure to high concentrations of vapors may cause dizziness, breathing difficulty, headaches or respiratory irritation.  
 Extremely high concentrations may cause drowsiness, staggering,

confusion, unconsciousness, coma or death.  
Intentional misuse by deliberately concentrating and inhaling the contents of this product can be harmful or fatal.

INGESTION:

CHRONIC EFFECTS:

Chronic overexposure to a component or components in this material has been found to cause the following effects in laboratory animals:

- Kidney damage
- Eye damage

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Contains butyl benzyl phthalate which has been shown to cause cancer in at least one study in laboratory animals. Butyl benzyl phthalate is not listed by OSHA, IARC or NTP as a carcinogen.

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SECTION 4 - FIRST AID MEASURES  
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EYE CONTACT:

Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

SKIN CONTACT:

Wash thoroughly with soap and water and seek medical attention if irritation persists. Remove contaminated clothing. Launder contaminated clothing before reuse.

INHALATION:

For inhalation overexposure move person to fresh air. If breathing stops, apply artificial respiration and seek medical attention.

INGESTION:

Since this product may contain materials which can cause lung damage if aspirated into the lungs, the decision whether to induce vomiting or not must be made by a physician after careful consideration of all materials ingested.

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SECTION 5 - FIRE FIGHTING MEASURES  
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FIRE AND EXPLOSIVE PROPERTIES OF THE PRODUCT:

Flashpoint . . . . .	: Less Than -25 °F
Explosion Level . . . . .	: Low (LEL) - .3
	High (UEL)- 100.0

EXTINGUISHING MEDIA:

Use Dry Chemical, Carbon Dioxide or Chemical Foam.

FIRE-FIGHTING PROCEDURES AND EQUIPMENT:

Contents under pressure. Do not use or store near sources of heat, sparks or open flame. Keep away from any source of heat such as sunlight, heaters or stoves that could cause the container to burst. Do not puncture or incinerate. Do not crush or place in a garbage compactor. Do not store above 120 degrees F. Aerosol containers may explode when exposed to extreme heat.

Product vapors are heavier than air and may travel a long distance to a source of ignition and flash back.

Full protective equipment including self-contained breathing apparatus to avoid inhalation of vapors should be used.

Water spray should not be used except to keep down vapors or cool closed containers to prevent build-up of pressure. If water is used, fog nozzles are preferred.

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SECTION 6 - ACCIDENTAL RELEASE MEASURES  
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CLEAN-UP AND CONTAINMENT:

Remove all sources of ignition. Avoid heat, sparks, flames and anything which could cause fire.

Ventilate area of spill and adjacent low lying areas. Avoid breathing

solvent vapors. Remove with inert absorbent materials and non-sparking tools.

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SECTION 7 - HANDLING AND STORAGE

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**HANDLING:**

wash hands thoroughly after handling.

**STORAGE:**

Store in a cool dry area with ventilation suitable for storing materials shown in section 2.

Keep away from heat, sparks and flame.

Store in a cool place away from direct sunlight or any source of ignition. Do not store at temperatures above 120 degrees F.

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SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

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**ENGINEERING CONTROLS:**

Sufficient ventilation, in volume and pattern, should be provided to keep air contamination below current applicable OSHA permissible exposure limit or ACGIH's TLV limit.

**RESPIRATORY PROTECTION:**

If workplace exposure limits are exceeded for any component (see section 2 for hazardous components and exposure limits), a NIOSH/OSHA approved respirator suitable for components listed is recommended.

**SKIN PROTECTION:**

Chemical resistant plastic or rubber gloves recommended for prolonged or repeated contact.

**EYE PROTECTION:**

Chemical goggles with side shields or face shield recommended if contact with the eyes is likely.

**OTHER PROTECTIVE EQUIPMENT:**

Appropriate impervious clothing is recommended if prolonged or repeated contact is likely.

**HYGIENIC PRACTICES:**

Wash hands before eating or smoking. Smoke in designated areas only.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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Vapor Pressure . . . . .	5585.20	mm Hg @ 20 C
Vapor Density . . . . .	-N/A	
Boiling Range . . . . .	Lower - 1.0	øF
	Higher - 464.0	øF
Specific Gravity . . . . .	.733	
Formula weight per volume . . . . .	6.1025	LB/GL
VOC (Calculated, LB/GAL) . . . . .	4.862	
VOC (Calculated, GM/L) . . . . .	582.61	
Percent Volatile by weight . . . . .	97.2428	
Percent Volatile by Volume . . . . .	98.3392	
Evaporation Rate . . . . .	7.700	(n-Butyl Acetate = 1)
Viscosity . . . . .	-N/A	

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SECTION 10 - STABILITY AND REACTIVITY

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**CONDITIONS TO AVOID:**

Avoid contact with heat, sparks, and open flame.  
Product may explode if heated. Keep cool, avoid exposure to heat.

**INCOMPATIBILITIES:**

Strong oxidizing agents.

**DECOMPOSITION:**

Thermal decomposition may produce carbon dioxide, carbon monoxide, and unidentifiable organic materials.

**POLYMERIZATION:**

No hazardous polymerization will occur under normal conditions.

STABILITY:

The product is stable under normal storage conditions.

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SECTION 11 - TOXICOLOGICAL INFORMATION  
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No specific information is available. Please refer to Section 2 and 3 for available information on exposure limits and hazards identification.

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SECTION 12 - ECOLOGICAL INFORMATION  
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No specific ecological information is available for this product.

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SECTION 13 - DISPOSAL CONSIDERATIONS  
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WASTE DISPOSAL:

Place in closed containers. Dispose of product in accordance with local, county, state, and federal regulations.

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SECTION 14 - TRANSPORT INFORMATION  
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Ground shipment of limited or excepted quantities of aerosols or liquid paint in containers of 1 quart or less:

CONSUMER COMMODITY, ORM-D

Ground shipment of liquid paint in containers more than 1 quart:

PAINT, FLAMMABLE LIQUID, UN1263, CLASS 3, GROUP II  
(Regulatory sources: DOT 49CFR 172.101)

Air shipment of limited or excepted quantities of aerosols or liquid paint in containers of 1 quart or less:

CONSUMER COMMODITY, ID 8000, CLASS 9 MISCELLANEOUS LABEL

(Regulatory sources: ATAI Quantity Exemptions - Table 2.8.4, 2.7.A, 2.7.5, Packaging Instruction: 910)

OR

AEROSOLS, FLAMMABLE, UN1950, CLASS 2.1 LABEL

(Regulatory sources: ATAI Quantity Exemptions - Table 2.8.1, 2.8.4, Packaging Instruction: Y203)

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SECTION 15 - REGULATORY INFORMATION  
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SARA 313 INFORMATION:

This product contains NONE of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

FEDERAL REGULATIONS:

TOXIC SUBSTANCES CONTROL ACT: The chemical substances in this product are listed on the TSCA Section 8 inventory.

STATE REGULATIONS:

NEW JERSEY RIGHT-TO-KNOW

The following non-hazardous ingredients are among the top five components in this product

CHEMICAL NAME	CAS NUMBER
Cellulose Acetate Butyrate	9004-36-8

PENNSYLVANIA RIGHT-TO-KNOW

No non-hazardous ingredients are present greater than 3%

INTERNATIONAL REGULATIONS:

CANADA: The chemical substances in this product are listed on the Canadian Domestic Substances List.

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SECTION 16 - OTHER INFORMATION  
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The information contained on this MSDS is believed to be reliable and accurate. Due to the changing nature of government information, it is impossible to guarantee the accuracy of the information contained herein. Since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damages incurred by the use of this material. This information should not be regarded as legal advice or regulation. It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations. For questions relating to specific aspects of the requirements and regulations consult the proper regulatory agency.

HMIS RATINGS:

HEALTH: 2\*    FLAMMABILITY: 4    REACTIVITY: 0    PERSONAL PROTECTION: G