

Grumbachier Advanced Formula Muston Workable Fixative Matte  
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# MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION 317-253

CHEMICAL PRODUCT IDENTIFICATION:  
PRODUCT CODE . . . : 01050 000472 604  
PRODUCT NAME . . . : GLOSS CLEAR — Adh.  
PRODUCT CLASS . . . : Aerosol Product

MSDS PREPARATION DATE : 11/09/2001

MANUFACTURER IDENTIFICATION: RAABE CORPORATION  
PO BOX 1090  
MENOMONEE FALLS WI 53052

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

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

1 ETHYLBENZENE  
CAS# 100-41-4  
ETHYLBENZENE  
PCT BY WT: 3.7970 VAPOR PRESSURE: 19.000 MMHG @ 68F LEL 1.20  
EXPOSURE LIMIT:  
ACGIH TLV-TWA 100 ppm  
ACGIH TLV-STEL 125 ppm  
OSHA PEL-TWA 100 ppm  
OSHA PEL-STEL 125 ppm  
OTHER TARC (2R)

2 N-BUTANE  
CAS# 106-97-8  
N-BUTANE  
PCT BY WT: 12.0000 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.

3 PROPANE  
CAS# 74-98-6  
PROPANE  
PCT BY WT: 16.0000 VAPOR PRESSURE: 5585.200 MMHG @ 68F LEL 2.20  
EXPOSURE LIMIT:  
ACGIH TLV-TWA 1000 ppm

RAABE CORPORATION  
192 W14701 ANTHONY AVENUE  
MENOMONEE FALLS, WI 53051-1030  
P.O. BOX 1090 MENOMONEE FALLS, WI 53052-1090  
800 968 7580 | 262 255 9500 | FAX 262 255 0884  
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ACGIH TLV-STEL NO INFORMATION

4 XYLENE

CAS# 1330-20-7

XYLENE

PCT BY WT: 16.0000 VAPOR PRESSURE: 6.600 MMHG @ 68F LEL 1.00

EXPOSURE LIMIT:

ACGIH TLV-TWA 100 ppm  
ACGIH TLV-STEL 150 ppm  
OSHA PEL-TWA 100 ppm  
OSHA PEL-STEL 150 ppm  
COMPANY N.E.

5 ACETONE

CAS# 67-64-1

ACETONE

PCT BY WT: 19.0000 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.

6 2-BUTOXYETHANOL

CAS# 111-76-2

2-BUTOXYETHANOL

PCT BY WT: 3.0000 VAPOR PRESSURE: .880 MMHG @ 68F LEL 1.10

EXPOSURE LIMIT:

ACGIH TLV-TWA 25 ppm  
ACGIH TLV-STEL NO INFO  
OSHA PEL-TWA 25 ppm  
COMPANY N.E.

7 TOLUENE

CAS# 108-88-3

TOLUENE

PCT BY WT: 20.0000 VAPOR PRESSURE: 38.000 MMHG @ 68F LEL 1.40

EXPOSURE LIMIT:

ACGIH TLV-TWA 50 ppm  
ACGIH TLV-STEL NO INFO  
OSHA PEL-TWA 50 ppm  
COMPANY N.E.

\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected  
carcinogens which are noted NTP, IARC, or OSHA-Z in the other limits  
recommended column.  
\*\*\*\*\*

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SECTION 3 - HAZARDS IDENTIFICATION

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.

POTENTIAL HEALTH EFFECTS:

EYE:

May cause severe eye irritation.

SKIN:

May cause skin irritation.  
Repeated and prolonged contact with the skin may cause allergic dermatitis.  
Product contains a component which can be absorbed through the skin.  
Excessive exposure may cause hemolysis (red blood cell damage) which can impair the blood's ability to transport oxygen.  
Material may aggravate an existing dermatitis.

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.  
Liquid or vapor may be irritating to skin, eyes, throat or lungs.  
Intentional misuse by deliberately concentrating and inhaling the contents of this product can be harmful or fatal.

INGESTION:

Moderately toxic. May cause stomach discomfort, nausea, vomiting, diarrhea, and narcosis.  
Aspiration of material into the lungs if swallowed or if vomiting occurs can cause chemical pneumonitis which can be fatal.

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
- Blood damage
- Lung damage
- Liver damage
- Spleen damage
- Anemia
- Brain damage
- Reproductive system damage

Chronic overexposure to a component or components in this product has

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been suggested as a cause of the following effects in humans:

- Liver damage
- Cardiac abnormalities

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

2-Butoxyethanol causes harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

Product contains toluene which may be harmful to the fetus based on animal studies.

Repeated exposure to toluene has been associated with high frequency hearing loss in laboratory animals. The human consequences of this finding is uncertain.

In February 2000 the International Agency for Research on Cancer (IARC) classified ethylbenzene as possibly carcinogenic to humans (Group 2B) on the basis of sufficient evidence for carcinogenicity in experimental animals but inadequate evidence for cancer in humans.

SECTION 4 - FIRST AID MEASURES

EYE CONTACT:

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

Flush with large quantities of water for 15 minutes.

SKIN CONTACT:

Wash thoroughly with soap and water and seek medical attention. 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.

NOTE TO PHYSICIAN:

SECTION 5 - FIRE FIGHTING MEASURES

FIRE AND EXPLOSIVE PROPERTIES OF THE PRODUCT:

|                               |                    |
|-------------------------------|--------------------|
| Flashpoint . . . . .          | : Less Than -25 °F |
| Explosion Level . . . . .     | : Low - 1.0        |
|                               | : High - 12.8      |
| Flammability Limits . . . . . | : Lower - -N/A     |
|                               | : Higher - -N/A    |

EXTINGUISHING MEDIA:

Use Dry Chemical, Carbon Dioxide or Chemical Foam.

FIRE-FIGHTING PROCEDURES AND EQUIPMENT:

Keep containers tightly closed. Isolate from heat, sparks, and open

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flame. Closed containers may explode when exposed to extreme heat. 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.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

## 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.

Use water spray to disperse vapors. Minimize breathing gases, vapor, fumes or decomposition products. Use self-contained breathing apparatus with full face piece operated in positive pressure mode as needed.

## SECTION 7 - HANDLING AND STORAGE

## 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.

## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

## 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

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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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

|                                      |                     |                       |
|--------------------------------------|---------------------|-----------------------|
| Vapor Pressure . . . . .             | : 5585.20           | mm Hg @ 20 C          |
| Vapor Density . . . . .              | : 3.70              |                       |
| Boiling Range . . . . .              | : Lower - 1.0 °F    |                       |
|                                      | : Higher - 340.0 °F |                       |
| Specific Gravity . . . . .           | : .739              |                       |
| Formula Weight per Volume . . . . .  | : 6.1561            | LB/GL                 |
| VOC (Calculated, LB/GAL) . . . . .   | : 5.332             |                       |
| VOC (Calculated, GM/L) . . . . .     | : 638.93            |                       |
| Percent Volatile by Weight . . . . . | : 90.2035           |                       |
| Evaporation Rate . . . . .           | : 7.700             | (n-Butyl Acetate = 1) |
| Viscosity . . . . .                  | : -N/A              |                       |

SECTION 10 - STABILITY AND REACTIVITY

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.

SECTION 11 - TOXICOLOGICAL INFORMATION

No specific information is available. Please refer to Section 3 for available information on potential health effects.

SECTION 12 - ECOLOGICAL INFORMATION

No specific ecological information is available for this product.

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SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

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

SECTION 14 - TRANSPORT INFORMATION

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)

SECTION 15 - REGULATORY INFORMATION

SARA 313 INFORMATION:

This product contains the following 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:

ETHYLBENZENE

CAS# 100-41-4 PCT BY WT: 3.7970

XYLENE

CAS# 1330-20-7 PCT BY WT: 16.1880

TOLUENE

CAS# 108-88-3 PCT BY WT: 20.1810

FEDERAL REGULATIONS:

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

STATE REGULATIONS:

This product contains chemical(s) which are listed on California's proposition 65 list. If the product is to be sold or used in California

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the following warning statement must appear on the label:

Warning! This product contains a chemical or chemicals known to the State of California to cause birth defects or other reproductive harm.

NEW JERSEY RIGHT-TO-KNOW

No non-hazardous ingredients are among the top five ingredients

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.

SECTION 16 - OTHER INFORMATION

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