



# Maintenance Kit Material Safety Data Sheets

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

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 this MSDS to your customer.

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



**The Precision Color Company**  
P.O. BOX 1090 • MENOMONEE FALLS WI 53052

**EMERGENCY TELEPHONE NUMBERS:**  
24 HOURS A DAY - CALL CHEMTREC:  
800-424-9300

INTERNATIONAL CALLS TO CHEMTREC:  
703-527-3887  
8:00 AM TO 4:30 PM CENTRAL TIME:  
414-255-9500

**CHEMICAL PRODUCT IDENTIFICATION:**  
PRODUCT CODE: 05709 062422 406  
PRODUCT CLASS: AEROSOL TOUCH-UP &  
AEROSOL PRIMER

## AEROSOL TOUCH-UP

### SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

#### 1 ETHYL BENZENE

CAS# 100-41-4  
ETHYL BENZENE  
PCT BY WT: 2.0000  
LEL 1.20  
EXPOSURE LIMIT:

ACGIH TLV-TWA 100 ppm  
ACGIH TLV-STEL 125 ppm  
2 N-BUTANE

CAS# 106-97-8  
N-BUTANE

PCT BY WT: 7.0000  
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: 18.0000  
VAPOR PRESSURE: 5585.200 MMHG @ 68F  
LEL 2.20  
EXPOSURE LIMIT:

ACGIH TLV-TWA 1000 ppm  
ACGIH TLV-STEL NO INFO  
4 TITANIUM DIOXIDE

#### CAS# 13463-67-7

TITANIUM DIOXIDE  
PCT BY WT: 4.0000  
EXPOSURE LIMIT:

ACGIH TLV-TWA 10 mg/m3  
ACGIH TLV-STEL NO INFO  
OSHA PEL-TWA 10 mg/m3  
COMPANY N.E.

#### 5 XYLENE

CAS# 1330-20-7  
XYLENE  
PCT BY WT: 10.0000  
LEL 1.00  
EXPOSURE LIMIT:

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

#### 6 ACETONE

CAS# 67-64-1  
ACETONE

PCT BY WT: 37.0000  
VAPOR PRESSURE: 185.000 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.

#### 7 GLYCOL ETHER PM ACETATE

CAS# 108-65-6

PROPYLENE GLYCOL METHYL ETHER ACETATE  
PCT BY WT: 7.0000  
VAPOR PRESSURE: 3.700 MMHG @ 68F  
LEL 1.30  
EXPOSURE LIMIT:

ACGIH TLV-TWA NOT ESTABLISHED  
ACGIH TLV-STEL NOT ESTABLISHED

This product contains no reported carcinogens or suspected carcinogens.



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## AEROSOL PRIMER

### SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

1	CARBONBLACK CARBON BLACK LEL 99.00 EXPOSURE LIMIT: ACGIH TLV-TWA 3.5 mg/m3 ACGIH TLV-STEL NO INFO	CAS# 1333-86-4 PCT BY WT: .3440	
2	DIATOMACEOUS EARTH DIATOMACEOUS EARTH LEL 100.00 EXPOSURE LIMIT: ACGIH TLV-TWA NO INFO ACGIH TLV-STEL NO INFO	CAS# 68855-54-9 PCT BY WT: 2.0000	
3	DI (2-ETHYLEHEXYL) PHTHALATE DI (2-ETHYLEHEXYL) PHTHALATE EXPOSURE LIMIT: ACGIH TLV-TWA NOT EST. ACGIH TLV-STEL NOT EST.	CAS# 117-81-7 PCT BY WT: 1.7180	
4	ETHYL BENZENE ETHYL BENZENE LEL 1.20 EXPOSURE LIMIT: ACGIH TLV-TWA 100 ppm ACGIH TLV-STEL 125 ppm	CAS# 100-41-4 PCT BY WT: 2.0000	
5	METHYL ISOBUTYL KETONE METHYL ISOBUTYL KETONE LEL 1.20 EXPOSURE LIMIT: ACGIH TLV-TWA 50 ppm ACGIH TLV-STEL 75 ppm OSHA PEL-TWA 50 ppm OSHA PEL-STEL N/A COMPANY N/A	CAS# 108-10-1 PCT BY WT: 3.0000 VAPOR PRESSURE: 16.000 MMHG @ 68F	
6	N-BUTANE N-BUTANE LEL 1.80 EXPOSURE LIMIT: ACGIH TLV-TWA 800 ppm ACGIH TLV-STEL NO INFO OSHA PEL-TWA 800 ppm COMPANY N.E.	CAS# 106-97-8 PCT BY WT: 7.0000 VAPOR PRESSURE: 879.100 MMHG @ 68F	
7	NITROCELLULOSE NITROCELLULOSE LEL 100.00 EXPOSURE LIMIT: ACGIH TLV-TWA NOT EST ACGIH TLV-STEL NOT EST.	CAS# 9004-70-0 PCT BY WT: 2.0000	
8	PROPANE PROPANE LEL 2.20 EXPOSURE LIMIT: ACGIH TLV-TWA 1000 ppm ACGIH TLV-STEL NO INFO	CAS# 74-98-6 PCT BY WT: 18.0000 VAPOR PRESSURE: 5585.200 MMHG @ 68F	
9	SILICA, CRYSTALLINE - DRISTOBALI SILICA, CRYSTALLINE - CRISTOBALITE LEL 100.00 EXPOSURE LIMIT: ACGIH TLV-TWA 0.05 MG/M3 ACGIH TLV-STEL NO INFO OTHER NTP	CAS# 14464-46-1 PCT BY WT: 1.7180	
10	SILICA, CRYSTALLINE QUARTZ SILICA, CRYSTALLINE QUARTZ LEL 99.0080 EXPOSURE LIMIT: ACGIH TLV-TWA 0.0 MG/M3 RESPIRABLE ACGIH TLV-STEL NONE ESTABLISHED OTHER NTP	CAS# 14808-60-7 PCT BY WT: 2.0620	
11	TALC TALC LEL 100.00 EXPOSURE LIMIT: ACGIH TLV-TWA 2 MG/M3 ACGIH TLV-STEL NO INFO OSHA PEL-TWA 10 MG/M3 COMPANY N. E.	CAS# 14657-73-8 PCT BY WT: 5.0000	
12	TITANIUM DIOXIDE TITANIUM DIOXIDE EXPOSURE LIMIT: ACGIH TLV-TWA 10 mg/m3 ACGIH TLV-STEL NO INFO OSHA PEL-TWA 10 mg/m3 COMPANY N. E.	CAS# 13463-67-7 PCT BY WT: 4.0000	
13	XYLENE XYLENE LEL 1.00 EXPOSURE LIMIT: ACGIH TLV-TWA 100 ppm ACGIH TLV-STEL 150 ppm OSHA PEL-TWA 100 ppm COMPANY N. E.	CAS# 1330-20-7 PCT BY WT: 10.0000	
14	2-BUTOXYETHANOL 2-BUTOXYETHANOL VAPOR PRESSURE: 1.10 EXPOSURE LIMIT: ACGIH TLV-TWA 25 PPM ACGIH TLV-STEL NO INFO OSHA PEL-TWA 25 PPM COMPANY N. E.	CAS# 111-76-2 PCT BY WT: 2.0000 .880 MMHG @ 68F	
15	METHYL ETHYL KETONE METHYL ETHYL KETONE VAPOR PRESSURE: 1.80 EXPOSURE LIMIT: ACGIH TLV-TWA 200 PPM ACGIH TLV-STEL 300 PPM OSHA PEL-TWA 200 PPM COMPANY N. E.	CAS# 78-93-3 PCT BY WT: 49.0000 85.000 MMHG @ 68F	
16	TOLUENE TOLUENE LEL 1.40 EXPOSURE LIMIT: ACGIH TLV-TWA 50 PPM ACGIH TLV-STEL NO INFO OSHA PEL-TWA 50 PPM COMPANY N. E.	CAS# 108-88-3 PCT BY WT: 2.0000 38.0000 MMHG @ 68F	
17	ISOPROPYL ALCOHOL ISOPROPYL ALCOHOL LEL 2.00 EXPOSURE LIMIT: ACGIH TLV-TWA 400 PPM ACGIH TLV-STEL 500 PPM OSHA PEL-TWA 400 PPM COMPANY N. E.	CAS# 67-63-0 PCT BY WT: 2.0000	

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

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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.  
**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, liver damage, and anemia. Chronic overexposure to a component or components in this product has been suggested as a cause of the following effects in humans: cardiac abnormalities. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Rats exposed to titanium dioxide dust at 250 mg/m<sup>3</sup> developed lung cancer, however, such exposure levels are not attainable in the workplace with this material.

## 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 13.1

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 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.

## 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 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

Vapor Pressure 5585.20 mm Hg @ 20 C  
 Vapor Density N/A  
 Boiling Range Lower - 1.0 øF Higher - 302.0 øF  
 Specific Gravity .774  
 Formula Weight per Volume 6.4430 LB/GL  
 VOC (Calculated, LB/GAL) 4.351  
 VOC (Calculated, GM/L) 521.38  
 Percent Volatile by Weight 80.4360  
 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.

## 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

Domestic ground shipment of Paint Aerosols and all liquid paint products in Containers of 1 Quart or less: CONSUMER COMMODITY, ORM-D

Domestic air shipment of Paint Aerosols and all liquid paint in containers of 1 quart or less:  
 CONSUMER COMMODITY, CLASS 9, ID 8000,  
 MISCELLANEOUS LABEL

International Air Shipments of Paint Aerosols:  
 AEROSOLS, FLAMMABLE, N.O.S. CLASS 2.1, UN 1950,  
 FLAMMABLE GAS LABEL

International Air Shipment of liquid paint in containers of 1 quart or less:  
 PAINT, CLASS 3, UN 1263, FLAMMABLE LIQUID LABEL

All shipments of Liquid Paint in containers of more than 1 quart:  
 PAINT, CLASS 3, UN 1263, PACKING GROUP II,  
 FLAMMABLE LIQUID LABEL

See 49 CFR 172.101, Hazardous Materials Table 1 for more information on shipping hazardous materials on land. See IATA Dangerous Goods Regulations for more details on shipping hazardous materials by air.

## 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:

ETHYL BENZENE

CAS# 100-41-4 PCT BY WT: 2.2050

XYLENE

CAS# 1330-20-7 PCT BY WT: 9.5620

## **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:** 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

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