

**MATERIAL SAFETY DATA SHEET**  
**Refinish Solutions Basecoat**

**SECTION I -**

Manufacturer's Name: **Matrix System Automotive Finishes, LLC**

Address: **850 Ladd Road, Bldg. E**  
**Walled Lake, MI 48390**

Emergency Telephone Number: **Chemtrec 800-424-9300**

Technical Information: **800-735-0303**

Product: **Refinish Solutions Basecoat - 1**

D.O.T. Hazard Class: **Paint, Flammable Liquids UN 1263**



**PRIMARY HAZARD WARNING**

Flammable. Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke. Extinguish all flames and pilot lights. Turn off stoves, heaters, electrical motors and all other sources of ignition during use and until all vapors/odors are gone. Harmful or fatal if swallowed. May cause moderate skin irritation. Causes severe eye irritation. May be absorbed through the skin. Vapor and/or spray mist may be harmful if inhaled. Vapor irritates eyes, nose, and throat. Sanding and grinding dusts may be harmful if inhaled.

THIS MATERIAL SAFETY DATA SHEET HAS BEEN PREPARED IN ACCORDANCE WITH THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200), THE SUPPLIER NOTIFICATION REQUIREMENTS OF SARA TITLE III, SECTION 313, AND OTHER APPLICABLE RIGHT-TO-KNOW REGULATIONS.

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### SECTION II - Hazardous Ingredients

No.	HAZARDOUS INGREDIENT	Emergency Plan	Note	CAS No.	ACGIH TLV ppm	OSHA PEL ppm		HMIS H-F-R	FLASH POINT TCC/°F	VAPOR PRESSURE mm Hg
1	ETHYL BENZENE	YES	1	100-41-4	100	100	125	2-3-0	77	7.10 @ 68° F
2	1-METHOXY-2-PROPYL ACETATE			108-65-6	N/E	N/E	N/E			
3	TOLUENE	YES	2	108-88-3	100	N/E	N/E	2-3-0	45	47 @ 20° C
4	N-BUTYL ACETATE			123-86-4	50	100	150	2-3-0	81	10 @ 20° C
5	XYLENE		1	1330-20-7	150	150	200	2-3-0	80	9.5 @ 20° C
6	CARBON BLACK			1333-86-4	100	100	150	N/A	N/A	N/A
7	TITANIUM DIOXIDE			13463-67-7	3.5	3.5	N/E	0-0-0	N/A	N/A
8	ETHYL ACETATE			141-78-6	10	10	N/E	1-3-0	24	86 @ 20° C
9	PETROLEUM DISTILLATES			64741-65-7	N/E	N/E	N/E			
10	NAPHTHA			64742-89-8	N/E	N/E	N/E	1-3-0	18	38 @ 68° F
11	AROMATIC NAPHTHA			64742-95-6	N/E	N/E	N/E	1-3-0	110	4 @ 68° F
12	ISOPROPYL ALCOHOL			67-63-0	400	400	500			
13	ACETONE			67-64-1	500	750	1000	1-3-0	<-1.0	182 @ 20° C
14	ALUMINUM POWDER			7429-90-5	10	5	N/E			
15	GRAPHITE			7782-42-5	2	2.5	N/E			
16	METHYL ETHYL KETONE		3	78-93-3	N/E	200	300	3-3-0	16	85 @ 20° C
17	NAPHTHA			8052-41-3	100	100	N/E			

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\*Subject to the reporting requirements of section 313 of the Emergency Planning and Community right to know act of 1986 and 40CFR372.

\*\* Short term exposure limit

Note 1 - Xylene contains 18-20% Ethyl Benzene (CAS# 100-41-4) having a PEL of 100 ppm, TLV of 100 ppm and a STEL of 150 ppm.

Note 2 - Toluene is known to the state of California to cause birth defects or other reproductive harm.

Note 3- This raw material is known to the state of California to cause Cancer and adverse reproductive effects.

## SECTION III - PHYSICAL DATA

**Evaporation Rate:** faster than butyl acetate

**Vapor Density:** heavier than air

**Vapor Pressure:** 13 mm Hg

**Solubility in Water:** < 10%

**% volume volatiles:** 52 - 74

**Specific Gravity:** 1.020

**Boiling Range:** 133 - 417° F

**% weight volatiles:** 33 - 60

**pH:** not applicable

**Density(pounds per gallon):** 8.5

**Regulatory VOC:** per formula

## SECTION IV - FIRE & EXPLOSION DATA

**FLASHPOINT:** 27° F ( -3 ° C) (PENSKY-MARTENS CLOSED CUP)

**FLAMMABLE LIMITS:** Lower explosion limit (LED): 1.3 Upper explosion limit (UEL): Not available

**EXTINGUISHING MEDIA:** Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA Class IB flammable liquid fires.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Keep this product away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces. Toxic gases may form when this product comes in contact with extreme heat.

**SPECIAL FIRE FIGHTING PROCEDURES:** Water spray may be ineffective. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable. Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

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## SECTION V - HEALTH HAZARD DATA

### GENERAL EFFECTS

**INGESTION:** Gastro-intestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of the ingredients available.

**INHALATION:** Vapor and/or spray mist may be harmful if inhaled. Vapor irritates eyes, nose, and throat. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage.

**CHRONIC OVEREXPOSURE:** Avoid long term and repeated contact. This product may contain titanium dioxide. Animals inhaling massive quantities of titanium dioxide dust in a long term study developed lung tumors. Studies with humans involved in manufacture of this pigment indicate no increased risk of cancer from exposure. Potential for inhalation of titanium dioxide dusts from coatings is very limited. Since overexposures are not expected, there is no significant hazard for man. This product contains methyl ethyl ketone (MEK). MEK has been shown to cause minor embryotoxic/fetotoxic effects in laboratory animals exposed for prolonged periods at high concentrations via inhalation. The potential for human exposure to high concentrations is expected to be low due to the irritating effects of MEK at low concentrations. This product contains a material which may be a fibrogenic dust. Long-term exposure to this material in the form of dust may result in accumulation of the material in the lungs and in subsequent lung damage. This product contains toluene. Toluene inhalation in animals (greater than 1500 ppm) and intentional inhalation of toluene-containing products by humans (e.g. glue) has caused adverse fetal development effects. This product contains carbon black which has been rated an IARC 2B carcinogen due to animal data. Ethyl benzene has been reported by NTP to cause cancer in laboratory animals following a chronic (2 year) inhalation exposure. Dose levels of 75, 250 and 750 ppm were used, with evidence of carcinogenicity found in the kidneys of rats and the lung and liver of mice at 750 ppm. The No Observed Effect Level (NOEL) was 75 ppm. The relevance of these findings to humans is uncertain, but appropriate safeguards should be employed to reduce or eliminate inhalation exposure to Ethyl benzene.

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### SECTION V - HEALTH HAZARD DATA

**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** Eye watering, headaches, nausea, dizziness, and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Not applicable. **WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

### SECTION VI – FIRST AID

**INGESTION:** If swallowed, do not induce vomiting. Gently wipe out inside mouth to remove any residual material.

**EYE CONTACT:** In case of eye contact, remove contact lenses and flush eyes immediately with a gentle stream of lukewarm water for at least 15 minutes.

**SKIN CONTACT:** In case of skin contact, flush immediately with plenty of water for at least 15 minutes followed by washing with soap and water.

**INHALATION:** If affected by inhalation of vapor or spray mist, remove to fresh air. Apply artificial respiration and other support measures as required.

**OTHER:** If ingestion, any type of overexposure or symptoms of overexposure occur during or following the use of this product, contact a poison control center, emergency room or physician immediately; have Material Safety Data Sheet information available.

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## SECTION VII – REACTIVITY

This product is normally stable but may undergo hazardous reactions at extremely high temperatures and pressures.

**INCOMPATIBILITY (MATERIALS AND CONDITIONS TO AVOID):** Avoid contact with strong alkalis, strong mineral acids, or strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** May produce the following hazardous decomposition products when exposed to extreme heat: carbon monoxide ; carbon dioxide ; oxides of aluminum ; lower molecular weight polymer fractions; Extreme heat includes, but is not limited to, flame cutting, brazing, and welding. Hazardous Materials Identification System (HMIS) and National Fire Protection Association (NFPA) Ratings:

HMIS Rating		NFPA Rating	
HEALTH	2*	HEALTH	2
FLAMMABILITY	3	FLAMMABILITY	3
REACTIVITY	I	INSTABILITY	I

Rating System: 0=Minimal, I=Slight, 2=Moderate, 3=Serious, 4=Severe, \*=Chronic Effects.

Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments and conditions of use.

## SECTION VIII - SPILL or LEAK PROCEDURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Provide maximum ventilation. Only personnel equipped with proper respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the absorbent should be placed in this container.

**WASTE DISPOSAL METHOD:** Waste material must be disposed of in accordance with federal, state, provincial, and local environmental control regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

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### SECTION IX - SPECIAL PROTECTION INFORMATION

**EYE PROTECTION:** Wear chemical-type splash goggles or full face shield when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapors.

**SKIN PROTECTION:** Wear protective clothing to prevent skin contact. Apron and gloves should be constructed of: neoprene rubber. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment.

**RESPIRATORY PROTECTION:** Overexposure to vapors may be prevented by ensuring proper ventilation controls, vapor exhaust or fresh air entry. A NIOSH- approved air purifying respirator with the appropriate chemical cartridges or a positive-pressure, air-supplied respirator may also reduce exposure. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used.

**OTHER EQUIPMENT:** Clean contaminated clothing and shoes.

**VENTILATION REQUIREMENTS:** Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

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### **SECTION X - SPECIAL PRECAUTIONS**

**HANDLING AND STORAGE PRECAUTIONS:** Do not store above 120° F.(48° C.). Store large quantities in buildings designed and protected for storage of NFPA Class IB flammable liquids.

**OTHER PRECAUTIONS:** Vapors may collect in low areas. If this material is part of a multiple component system, read the Material Safety Data Sheet (s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts. Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches.

**Developed on: January 5, 2010**