

# MATERIAL SAFETY DATA SHEET

## Matrix Standard Interior Coat



**SECTION I:**

**Manufacturer's Name:** Matrix System Automotive Finishes, Inc  
**Address:** 850 Ladd Road, Bldg. E  
 Walled Lake, MI 48390  
**Emergency Phone #:** Chemtrec (800) 424-9300,  
 (800) 735-0303  
**Product:** Matrix Standard Basecoat – 2  
**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 other sources of ignition during use and until all vapors/odors are gone. Harmful or fatal if swallowed. Contains lead. Lead poisoning is characterized by a metallic taste in the mouth, loss of appetite, indigestion, nausea, vomiting, constipation, abdominal cramps, disturbance of rest and sleep, and weakness. Dried film of this product may be harmful if chewed or swallowed. May cause skin burns. Causes severe eye irritation. May be harmful if absorbed through the skin. Prolonged or repeated contact may cause an allergic skin reaction. Vapor and/or spray mist 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.

**SECTION II - Hazardous Ingredients.**

CODE No.	HAZARDOUS INGREDIENT	EMERG. PLAN*	NOTE	CAS No.	ACGIH TLV ppm	OSHA PEL ppm	STEL** ppm	HMS H-F-R	FLASH POINT TCC/F	VAPOR PRESSURE mm Hg
1	ETHYL BENZENE	YES		100-41-4	100	100	150	2-3-0	77	7.10@68F
2	1-METHOXY-2-PROPYL ACETATE	NO		108-65-6	N/E	N/E	N/E			
3	TOLUENE	YES	2	108-88-3	50	100	150	2-3-0	45	47@20C
4	N-BUTYL ACETATE	NO		123-86-4	150	150	200	2-3-0	81	10@20C
5	ANTIMONY TRIOXIDE	YES	3	1309-64-4	0.5	0.5	N/E			
6	XYLENES	YES	1	1330-20-7	100	100	150	2-3-0	80	9.5@20C
7	CARBON BLACK	NO		1333-86-4	3.5	3.5	N/E	N/A	N/A	N/A

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8	TITANIUM DIOXIDE	No		13463-67-7	N/E	N/E	N/A	0-0-0	N/A	N/A
9	ETHYL ACETATE	NO		141-78-6	400	400	N/E	1-3-0	24	86 @ 20 C
10	PETROLEUM DISTILLATES	NO		64741-65-7	N/E	N/E	N/E			
11	NAPTHA	YES		64742-89-8	300	300	N/E	1-3-0	18	38 @ 68F
12	AEROMATIC NAPTHA	NO		64742-95-6	50	50	150	1-3-0	110	4 @ 68 F
13	ISOPROPYL ALCOHOL	NO		67-63-0	400	400	500	1-3-0	53	8.8@ 68 F
14	ACETONE	YES		67-64-1	750	750	1000	1-3-0	<-1.0	182 @20C
15	ALUMINUM POWDER	YES		7429-90-5	10	15	N/A			N/A
16	BARIUM	NO		7440-39-3	0.5	0.5	N/E			
17	LEAD SULFATE	YES	3	7446-14-2	0.05	0.05	N/E			
18	LEAD CHROMATE	YES	3	7758-97-6	0.012	0.05	N/E			
19	GRAPHITE	NO		7782-42-5	2	2.5	N/E			
20	METHYL ETHYL KEYTONE	NO		78-93-3	200	200	300			
21	NAPTHA	NO		8052-41-3	100	100	N/E			

\* 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

**BOILING RANGE:** 133- 417Degrees F      **SOLUBILITY IN WATER:** 110 %      **VAPOR PRESSURE:** 12.45 mm/Hg

**WEIGHT/GALLON (LBS):** 8.7 (U.S.)      **VAPOR DENSITY:** Heavier than air      **pH:** Not applicable %

**VOLATILE/VOLUME:** 51-74 %      **SOLIDS BY WEIGHT:** 51-74      **SPECIFIC GRAVITY:** 1.044

**EVAPORATION RATE (BuOAc=100):** 133

**ODOR/APPEARANCE:** Viscous liquid with an odor characteristic of the solvents listed in Section 2.

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## SECTION IV - FIRE & EXPLOSION DATA

**FLASH POINT (CLOSED CUP):** 28 F

**APPROXIMATE FLAMMABLE LIMITS:** 1.3

**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 III B combustible 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 auto ignition 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.

## SECTION V - HEALTH HAZARD DATA

### **GENERAL EFFECTS**

**INGESTION:** Harmful or fatal if swallowed. Contains lead. Lead poisoning is characterized by a metallic taste in the mouth, loss of appetite, indigestion, nausea, vomiting, constipation, abdominal cramps, disturbance of rest and sleep, and weakness. Dried film of this product may be harmful if chewed or swallowed.

**EYE CONTACT:** Causes severe eye irritation.

**SKIN CONTACT:** Causes primary skin irritation. May be harmful if absorbed through the skin. Prolonged or repeated contact may cause an allergic skin reaction.

**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. Overexposure to lead adversely affects blood and blood forming tissues, kidneys, liver and the central nervous system, reproductive organs and causes adverse developmental effects. NTP and IARC have classified chromium (+6) compounds as carcinogenic. No human data were available on the risk associated with use of strontium chromate or other chromate pigments. This product contains an insoluble form of a chromium (6+) compound. NTP and IARC associate these materials with an increased risk of cancer. This product contains antimony trioxide. Inhalation of high levels of antimony trioxide dust has been associated with effects on the blood, kidneys, and liver and an increased risk of lung cancer (according to IARC). No dust of antimony trioxide should be generated during use of this product. The potential for these effects to occur is minimal. This product contains 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.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** Contains lead. Lead poisoning is characterized by a metallic taste in the mouth, loss of appetite, indigestion, nausea, vomiting, constipation, abdominal cramps, disturbance of rest and sleep, and weakness. Dried film of this product may be harmful if chewed or swallowed. 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 (s) known to the State of California to cause cancer and birth defects or other reproductive harm.

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## SECTION VI – First Aid

**INGESTION:** If swallowed, induce vomiting by giving 1 ounce of syrup of ipecac followed by 8 to 16 ounces of water. 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 waterless hand cleaner and soap and water if the material appears to adhere to skin.

**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 ingest ion, 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.

## SECTION VII - REACTIVITY DATA

This product is normally stable and will not undergo hazardous reactions.

**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 chromium; oxides of molybdenum; oxides of lead; oxides of sulfur; 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	1	Reactivity	1

Rating System: 0 = Minimal, 1 = 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:** DO NOT breathe vapors. DO NOT get in eyes or on skin. Wear a positive pressure supplied air vapor/particulate respirator (NIOSH/MSHA TC-19C), eye protection, gloves and protective clothing. Remove sources of ignition. Provide maximum ventilation. Only personnel equipped with proper respiratory, skin and eye protection should be permitted in the area. 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. DO NOT allow material to contaminate ground water systems. DO NOT incinerate in closed containers.

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## SECTION IX - SPECIAL PROTECTION INFORMATION

### **PROTECTIVE EQUIPMENT FOR:**

**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 or nitrile 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.

## SECTION X - SPECIAL PRECAUTIONS

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

NOTICE: The data in this Material Safety Data Sheet relate only to the specific material designated herein and do not relate to use in combination with another material or in any process.

**Revised on: September 16, 2009**