

MATERIAL SAFETY DATA SHEET

SECTION I:

Manufacturer's Name: Matrix System Automotive Finishes, Inc.
Address: 850 Ladd Road, Bldg. E
 Walled Lake, MI 48390
Product: Primers, Clearcoats, Solvents, and Additives
Emergency Phone #: Chemtrec (800) 424-9300, (800) 735-0303
D.O.T. Hazard Class Paint, Flammable Liquids UN 1263



**SOLVENTS, PRIMERS,
 CLEARCOATS AND ADDITIVES**

SECTION II - Hazardous Ingredients. (See Section X for specific products' codes.)

CODE NO.	HAZARDOUS INGREDIENT	EMERG PLAN*	NOTE	CAS NO	ACGIH TLV PPM	OSHA PEL PPM	STEL** PPM	HMIS H-F-R	FLASH POINT TCC/F	VAPOR PRESSURE mm Hg.
1	n-BUTYL ACETATE	YES		123-86-4	150	150	200	2-3-0	81	10 @20C
2	ACETONE	YES		67-64-1	750	750	1000	1-3-0	<-1.0	182 @20c
3	TOLUENE	YES	2	108-88-3	50	100	150	2-3-0	45	47 @ 20c
4	ISOPROPYL ALCOHOL	YES		67-63-0	400	400	500	1-3-0	53	32 @20C
5	n-HEPTANE	NO		142-82-5	400	400	N/E	1-3-0	20	60 @25C
6	diisobutyl ketone	NO		108-83-8	25	25	N/E	2-2-0	120	1.7 @20C
7	ethyl acetate	YES		141-78-6	400	400	N/E	1-3-0	24	86 @20C
8	1-methoxy-2-propanol acetate	NO		108-65-6	N/E	N/E	N/E	2-3-0	114 Seta closed	2.4 @20C
9	[N230] 2-butoxyethyl acetate	NO		112-07-02	N/E	N/E	N/E	2-2-0	160	0.3 @20C
10	VM & P NAPHTHA	NO		8032-32-4	300	300	N/E	1-3-0	18	38 @68F
11	[N230] 2-butoxyethanol	NO		111-76-2	N/E	N/E	N/E	1-2-0	165	.88 @25C
12	light aromatic petroleum solvent	NO		64742-95-6	50	50	150	1-3-0	110	3 @20C
13	ethyl 3-ethoxypropionate	YES		763-69-9	N/E	N/E	100	1-2-0	136	1.5 @20C

MATERIAL SAFETY DATA SHEET

SECTION II - Hazardous Ingredients. (See Section X for specific products' codes.)

CODE NO.	HAZARDOUS INGREDIENT	EMERG PLAN*	NOTE	CAS NO	ACGIH TLV PPM	OSHA PEL PPM	STEL** PPM	HMIS H-F-R	FLASH POINT TCC/F	VAPOR PRESSURE mm Hg.
14	XYLENES	YES	1	1330-20-7	100	100	150	2-3-0	77	9.5 @20C
15	stoddard solvent	NO		8052-41-3	100	100	100	1-2-0	100	<1 @20C
16	ISOBUTYL ACETATE	NO		110-19-0	150	150	187	1-3-0	62	14.8 @20C
17	n-BUTYL ALCOHOL	YES		71-36-3	50	50	N/E	2-3-0	97	5.5 @20c
18	METHYL ETHYL KETONE	YES		78-93-3	200	200	300	3-3-0	16	85 @20C
19	methyl n-amyl ketone	NO		110-43-0	50	100	N/E	1-2-0	102	2.1 @20C
20	METHYL PROPYL KETONE	NO		107-87-9	200	200	200	1-2-0	45	27 @20C
21	[N090] STRONTIUM CHROMATE	YES	3	7789-06-2	.05 mg/m ³	.10 mg/m ³	N/E	4-0-0	N/A	N/A
22	bisphenol A-epichlorhydrin based epoxy resin	YES		25036-25-3	5 mg/m ³	5 mg/m ³	N/E	2-1-0	N/A	N/A
23	film formers, resins and additives	NO		TRADE SECRET						
24	C-6 branched alcohol acetate blend	NO		88230-35-7	50	50	N/E	1-2-0	135	1.4 @68F
25	C-7 branched alcohol acetate blend	NO		90438-79-2	N/E	N/E	N/E	1-2-0	151	1 @68F
26	METHYL ALCOHOL	NO		67-56-1	200	200	N/E	2-2-0	54	97 @20C
27	ISOBUTYL ALCOHOL	NO		78-83-1	N/E	N/E	N/E	2-2-0	85	8.8 @20C
28	PHOSPHORIC ACID	YES		7664-38-2	1	1	3	3-0-0	N/A	6.0 @ 104.F
29	METHYL ISOBUTYL KETONE	YES		108-10-1	50	50	75	2-3-0	60	16 @20C
30	PROPYLENE GLYCOL MONOMETHYL ETHER	YES		107-98-2	100	100	N/E	2-3-0	94 OPEN CUP	11 @25C
31	naphtha	YES		64742-47-8	300	300	N/E	2-3-0	N/A	9 @100F
32	pentane-2,4-dione	YES		123-54-6	20	20	N/E	3-3-1	96	6.8 @68 F
33	STYRENE MONOMER	YES		100-42-5	100	100	100	2-3-2	88	4.5 @68 F

MATERIAL SAFETY DATA SHEET

SECTION II - Hazardous Ingredients. (See Section X for specific products' codes.)

CODE NO.	HAZARDOUS INGREDIENT	EMERG PLAN*	NOTE	CAS NO	ACGIH TLV PPM	OSHA PEL PPM	STEL** PPM	HMIS H-F-R	FLASH POINT TCC/F	VAPOR PRESSURE mm Hg.
34	[N090, N982] ZINC CHROMATE	YES	3	13530-65-9	N/E	N/E	N/E	3-3-0	N/A	N/A
35	water	NO		7732-18-5	N/E	N/E	N/E	0-0-0	N/A	N/A
36	ETHYL BENZENE	YES	1	100-41-4	100	100	150	2-3-0	59	7.10 @ 68F
37	BENZENE DERIVATIVE	NO		TRADE SECRET	N/E	N/E	N/E	2-3-0	N/A	5.3 @ 68F
38	NITROCELLULOSE	YES		TRADE SECRET	N/E	N/E	N/E	2-3-1	53	33 @ 68 F
39	ISOPROPYL ALCOHOL	NO		67-63-0	400	400	N/E	2-3-0	53	31.2 @ 68 F
40	METHLCYCLOHEXANE	NO		108-87-2	400	400	N/E			60 @ 68 F
41	dimethyl glutarate	NO		1119-40-0	N/E	N/E	N/E			.2 @ 68 F
42	dimethyl succinate	NO		106-65-0	N/E	N/E	N/E			.2 @ 68 F
43	dimethyl adipate	NO		627-93-0	N/E	N/E	N/E			.2 @ 68 F
44	kaolin	NO		1332-58-7	N/E	N/E	N/E	0-0-0	N/E	N/E
45	titanium dioxide	NO		13463-67-7	N/E	10 mg/m ³	N/E	1-0-0	N/E	N/E
46	METHYL ACETATE	NO		79-20-9	200	200	250	1-3-0	9	171.3 @ 68 F
47	limestone	NO		1317-65-3	10 mg/m ³	15 mg/m ³	N/E	1-0-0	N/E	N/E
48	talc	NO		14807-96-6	2 mg/m ³	20 mppcuf	N/E	1*-0-0	N/E	N/E
49	ceramic microspheres	NO		66402-68-4	10 mg/m ³	15 mg/m ³	N/E	0-0-0	N/E	N/E
50	p-chloro-a,a,a-trifluorotoluene	NO		98-56-6	2.5 mg/m ³ as Fluorides	2.5 mg/m ³ as Fluorides	N/E	1*-2-1	116.6	5.3 @ 68 F
51	precipitated amorphous silica	NO		112926-00-8	N/E	20 mp/ft ³	N/E	1-0-0	N/E	N/E
52	2-(2-hydroxy-3,5-di-(tert)-amylphenyl) benzotriazole	NO		25973-55-1	N/E	N/E	N/E	2-1-0	N/E	N/E

MATERIAL SAFETY DATA SHEET

SECTION II - Hazardous Ingredients. (See Section X for specific products' codes.)

CODE NO.	HAZARDOUS INGREDIENT	EMERG PLAN*	NOTE	CAS NO	ACGIH TLV PPM	OSHA PEL PPM	STEL** PPM	HMIS H-F-R	FLASH POINT TCC/F	VAPOR PRESSURE mm Hg.
53	Polyvinyl butyral – polyvinyl alcohol – polyvinyl acetate terpolymer	NO		27360-07-2	3 mg/m ³	5 mg/m ³	N/E	1-1-0	N/A	N/A
54	Red iron oxide	NO		1332-37-2	5 mg/m ³	10 mg/m ³	N/E	0-0-0	N/A	N/A
55	diacetone alcohol	YES		123-42-2	150	50	N/E	1-2-0	133	0.8 @ 68 F
56	[N090, N982] ZINC CHROMATE	YES	3	13530-65-9	0.05 mg/m ³ Cr	0.10 mg/m ³ CrO ₃	N/E	3*-0-0	N/A	N/A
57	acrylic resin/polyol/polymer	NO		TRADE SECRET	N/E	N/E	N/E	1-0-0	N/A	N/A
58	[N230] 2-ETHOXYETHYL ACETATE	YES		111-15-9	5	100	N/E	2*-2-0	134	2.0 @ 68 F
59	Light aliphatic naphtha	NO		64742-89-8	400	400	N/E	2-3-0	20	60.0 @ 68 F
60	n-HEPTANE	YES		142-82-5	400	400	N/E	2-3-0	19	76.0 @ 68 F
61	solvent naphtha (petroleum), heavy aromatic	NO		64742-94-5	N/E	N/E	N/E	1-2-0	145	0.5 @ 68 F
62	CYCLOHEXANE	YES		110-82-7	300	300	N/E	3-3-0	-4	95.0 @ 68 F
63	magnesite dust	NO		546-93-0	15 mg/m ³ (TOTAL DUST)	5 mg/m ³ (RESP. DUST)	N/E	1-0-0	N/E	N/E
64	maleated rosin polymer with glycerol	NO		68038-41-5	10 mg/m ³ (PARTICULATE NOT OTHERWISE CLASSIFIED)	5 mg/m ³ (RESP. FRACTION)	N/E	1-1-0	N/E	N/E
65	di-n-butyl phthalate	YES		84-74-2	N/E	N/E	N/E	0-1-0	340 (COC)	0.8 @ 302 F

MATERIAL SAFETY DATA SHEET

SECTION II - Hazardous Ingredients. (See Section X for specific products' codes.)

CODE NO.	HAZARDOUS INGREDIENT	EMERG PLAN*	NOTE	CAS NO	ACGIH TLV PPM	OSHA PEL PPM	STEL** PPM	HMIS H-F-R	FLASH POINT TCC/F	VAPOR PRESSURE mm Hg.
66	wollastonite	NO		13983-17-0	3 mg/m ³ (RESP. DUST)	N/E	N/E	1-0-0	N/E	N/E
67	pseudocumene	YES		95-63-6	25	25	N/E	0-2-0	N/E	N/E
68	BUTYL PROPIONATE	NO		590-01-2	N/E	N/E	N/E	2-3-0	100 (SETA)	3.44 @ 68 F
69	[N982] zinc phosphate	NO		7779-90-0	N/E	N/E	N/E	0-0-1	N/E	N/E
70	2-pyrrolidinone, 1-methyl-	YES		872-50-4	N/E	N/E	N/E	2*-1-0	187	0.45 @ 68 F
71	2-propanol-1-butoxy	NO		5131-6-8	N/E	N/E	N/E	1-2-0	145	0.85 @ 68 F
72	barium sulfate	NO		7727-43-7	10 mg/m ³ (TOTAL DUST)	15 mg/m ³ (TOTAL DUST)	N/E	1-0-0	N/E	N/E
73	m-xylene	YES		108-38-3	100	100	150	2-3-0	80	8.3 @ 68 F
74	o-xylene	YES		95-47-6	100	100	150	2-3-0	80	5.20 @ 68 F
75	PROPYL BENZENE	NO		103-65-1	N/E	N/E	N/E	0-2-0	N/E	N/E
76	p-xylene	YES		106-42-3	100	100	150	2-3-1	80	8.6 @ 68 F
77	FORMALDEHYDE	YES		50-00-0	0.3 CEILING	0.75	2.00	2*-2-0	N/E	N/E
78	Naphthalene	YES		91-20-3	N/E	N/E	N/E	0-2-0	N/E	N/E
79	SILICA, QUARTZ	NO		14808-60-7	0.1 mg/m ³ RESP. DUST	10 mg/m ³ RESP. DUST	N/E	1-0-0	N/E	N/E
80	isobutyl isobutyrate	NO		97-85-8	N/E	N/E	N/E	1-2-0	104	0.11812 @ 68 F
81	acetic acid, 2-ethylhexyl ester	NO		103-09-3	N/E	N/E	N/E	2-2-0	159.8	0.4 @ 68 F

MATERIAL SAFETY DATA SHEET

SECTION II - Hazardous Ingredients. (See Section X for specific products' codes.)

CODE NO.	HAZARDOUS INGREDIENT	EMERG PLAN*	NOTE	CAS NO	ACGIH TLV PPM	OSHA PEL PPM	STEL** PPM	HMIS H-F-R	FLASH POINT TCC/F	VAPOR PRESSURE mm Hg.
82	[N090, N982] ZINC POTASSIUM CHROMATE	YES	3	11103-86-9	0.01 mg/m ³	0.01 mg/m ³	N/E	3*-0-0	N/E	N/E
83	palygorskite fibers (>5 microns or greater)	NO		12174-11-7	3 mg/m ³ RESP. DUST	3 mg/m ³ RESP. DUST	N/E	1*-0-0	N/E	N/E
84	carbon black	NO		1333-86-4	3.5 mg/m ³	3.5 mg/m ³	N/E	1*-1-0	N/E	N/E
85	[N230] 2-ETHOXYETHANOL	YES		110-80-5	5 SKIN	100 SKIN	N/E	3*-2-1	109	2 @ 68 F
86	SILICA, CRISTOBALITE	YES		14464-46-1	0.05 mg/m ³ RESP. DUST	0.05 mg/m ³ RESP. DUST	N/E	1*-0-0	N/E	N/E
87	polyacrylate polymer	NO		98613-27-5	N/E	N/E	N/E	0-0-0	N/E	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 - Zinc Teroxy Chromate and Strontium Chromate are NTP and IARC listed carcinogens.

N/E - Not established as reported by manufacturer.

SECTION III - PHYSICAL DATA

Evaporation Rate: Slower than ether

Solubility in water: Slight

Boiling range: 129 - 437 F

Gallon weight (# per gal.): 6.0 – 12.13 #/gal.

Vapor Density: Heavier than air

Volume % volatile: 19.4 - 100%

Weight % volatile: 15.3 - 100%

V.O.C. (# per gal.): See Table

SECTION IV - FIRE & EXPLOSION DATA

Flash point (Closed cup): -4 to 160 degrees F.

Approximate flammable limits: 0.8% - 16%.

Extinguishing media: Foam, carbon dioxide, dry chemical.

Special fire fighting procedures: Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to cool closed containers to prevent pressure build up.

Unusual fire & explosion hazards: When heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

MATERIAL SAFETY DATA SHEET

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: May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: Headache, dizziness, nausea, staggering gait, confusion, and/or unconsciousness. *Toluene* has been found by the state of California to cause birth defects and other reproductive harm. *Propylene glycol monoethyl ether acetate* and *n-Butyl alcohol* may cause moderate eye burning and can be absorbed through the skin in harmful amounts. Laboratory studies with rats have shown that petroleum distillates cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs or monkeys. Several studies evaluating petroleum workers have not shown significant increases of kidney damage or kidney or liver tumors. Extremely high concentration of n-butyl acetate have caused blood changes and weakness in laboratory animals. Repeated extremely high exposures of laboratory animals to *Ethyl acetate* resulted in secondary anemia with and increase in white blood cells, fatty degeneration, cloudy swelling, and an excess of blood in various organs. *Dibasic ester* inhalation overexposure in rats has shown mild injury to the olfactory region of the nose. *Strontium Chromate* is a NTP and IARC listed carcinogen. *Ethylene glycol monobutyl ether acetate* can be absorbed through the skin in harmful amounts. In studies in laboratory animals has produced damage to red blood cells and kidneys. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician.

Skin or eye contact: Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. In case of eye contact, immediately flush with plenty of water for at least 15 minutes; and call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

SECTION VI - REACTIVITY DATA

Stability: Stable

Incompatibility (materials to avoid): None, reasonably foreseeable

Hazardous decomposition products: CO, CO₂, and smoke

Hazardous polymerization: Will not occur

SECTION VII - 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. Absorb with inert material. Ventilate area. Pour liquid decontaminate solution over the spill and allow to sit 10 minutes, minimum.

Typical decontamination solutions are: 20% surfactant (Tergitol TMN 10), 80% Water OR 0-10% Ammonia, 2-5% Detergent, Balance water

Waste disposal method: DO NOT allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state, and local requirements. DO NOT incinerate in closed containers.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory: DO NOT breathe vapors or mists. When this product is used with a pint requiring isocyanate hardener or activator, wear a continuous flow supplied air respirator (NIOSH/MSHA TC-19C approved) when mixing the hardener/activator with the paint, during application and until all vapor and spray mists are exhausted. DO NOT permit anyone without respirator protection in the painting area. Refer to the hardener/activator label instructions and MSDS for further information. Follow the respirator manufacturer's directions for respirator use.

Ventilation: Provide sufficient ventilation in volume and pattern to keep contaminants below applicable OSHA requirements.

Protective clothing: Neoprene gloves and coveralls are recommended.

Eye protection: Desirable in all industrial situations. Include splash guards or side shields.

MATERIAL SAFETY DATA SHEET

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing: Observe label precautions. Keep away from heat, sparks, and flame. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120 degrees F.

Other precautions: DO NOT sand, flame cut, braze or weld dry coating without a NIOSH/MSHA approved respirator or appropriate ventilation.

SECTION X - PRODUCT CODES AND INFORMATION

PRODUCT NUMBER	COMPOSITION % BY WEIGHT (HAZARDOUS INGREDIENTS)	EMERG. PLAN*	FLASH POINT	OSHA FLAM CLASS	NFPA H-F-R	VOC LBS/GL	BOILING POINT
AG-40	1) 14.86%; 9) 0-5%; 14) 17.31%; 19) 14.67%; 36) 1.55%; 52) 0-10%; 57) 15-25%; 58) 0-5%; 85) 0.0015%; 87) 15-25%	YES	78 TCC/F	IB	2*-3-0	4.38	252-367 F
AG-40LV	1) 7.02%; 2) 8.31%; 14) 6.08%; 19) 2.34%; 36) 1.43%; 50) 25-35%; 52) 0-10%; 57) 25-35%	YES	-4 TCC/F	IB	2*-3-0	2.58	133-401 F
2KPB	3) 17%; 8) 0-10%; 14) 11%; 16) 0-10%; 18) 2%; 23) 40-50%	YES	23 TCC/F	IB	2-3-0	4.33	174-284 F
MP-2K	14) 15%; 16) 5-15%; 18) 4%; 3) 4%; 36) 3%	YES	23 TCC/F	IB	2-3-0	4.41	174-281 F
MP-2K-GR	14) 15%; 16) 5-15%; 18) 4%; 3) 4%; 36) 3%; 8)0-10%	YES	23 TCC/F	IB	2-3-0	4.42	174-281 F
MP-21	2) 5-10%; 14) 6%; 23) 10-15%; 29) 1%; 36) 1.49%; 44) 10-15%; 45) 11.47%; 46) 10-15%; 47) 10-15%; 48) 7.49%; 49) 5-10%; 50) 0-5%; 51) 0-5%	YES	-4.0 TCC/F	IB	2*-3-0	1.89	132-281 F
MP-35	1) 2 %; 3) 0-5%; 13) 0-10%; 19) 7.36; 28) 0-5%; 33) 0.0051%; 36) 0.01%; 45) 0-10%; 46) 13.15%; 72) 40-50%; 73) 0.05%; 74) 0.05%;75) 0.01%; 76) 0.01%; 77) 0.0003%.	YES	9 TCC/F	IB	2*-3-0	2.8	132-334.4 F
MP-121	1) 0-5%; 8) 0-5%; 14) 3%; 19) 10-15%; 20) 0-5%; 29) 4%; 36) 1%; 45) 43.17%; 51) 5-10%; 66) 2.22%; 67) 1%	YES	46 TCC/F	IB	2*-3-0	4.14	213-334.4 F
MP-124	1) 0-5%; 8) 0-5%; 14) 4%; 19) 10-15%; 20) 0-5%; 29) 9%; 36) 1%; 45) 8.10%; 47) 5-10%; 48) 8.93%; 51) 0-5%; 57) 10-15%; 66) 2.58%; 67) 1%	YES	46 TCC/F	IB	2*-3-0	4.35	213-401 F
MP-127	1) 0-5%; 8) 5-10%; 14) 4%; 19) 0-5%; 20) 0-5%; 29) 2%; 36) 1%; 45) 8.28%; 47) 0-5%; 48) 8.52%; 50) 20-25%; 51) 0-5%; 66) 2.69%; 67) 1%	YES	46 TCC/F	IB	2*-3-0	4.01	213-334.4 F

MATERIAL SAFETY DATA SHEET

SECTION X - PRODUCT CODES AND INFORMATION

PRODUCT NUMBER	COMPOSITION % BY WEIGHT (HAZARDOUS INGREDIENTS)	EMERG. PLAN*	FLASH POINT	OSHA FLAM CLASS	NFPA H-F-R	VOC LBS./GL	BOILING POINT
MP-129	1) 2.66%; 14) 3.6%; 19) 4.87%; 20) 8.46%; 27) 0.03%; 29) 2.33%; 33) 0.0215%; 36) 1.03%; 45) 0-10%; 47) 5-15%; 48) 0-10%; 50) 5-15%; 57) 5-15%; 66) 2.45%; 67) 1.31%; 72) 15-25%; 73) 0.42%; 74) 0.19%; 76) 0.19%; 79) 0.1192%	YES	46 TCC/F	IB	2*-3-0	4.00	213-334.4 F
MP-131	2) 15-20%; 3) 4%; 10) 0-5%; 14) 16%; 19) 0-5%; 29) 2%; 45) 27.13%; 51) 0-5%	YES	-4 TCC/F	IB	2*-3-0	4.30	133-300 F
MP-134	2) 15-20%; 3) 5%; 14) 18%; 29) 1%; 45) 4.90%; 48) 9.18%; 50) 15-20%	YES	-4 TCC/F	IB	2*-3-0	4.30	133-281 F
MP-137	2) 20-25%; 3) 3%; 8) 0-5%; 14) 15%; 19) 0-5%; 45) 3.32%; 46) 0-5%; 48) 9.18%; 50) 10-15%	YES	-4 TCC/F	IB	2*-3-0	4.34	132-300 F
MP-250	3) 19% 29) 13% 38) 0-10% 39) 4% 36) 1% 18) 5% 2) 4% 14) 3%	YES	-4 TCC/F	IB	3-3-0	4.50	133-281 F
MP-255	2) 18% 29) 14% 3) 14% 14) 3% 8) 0-10% 38) 0-10% 39) 4%	YES	-4 TCC/F	IB	3-3-0	3.65	133-281 F
MP-275	2) 45-50%; 3) 2%; 4) 0-5%; 14) 1%; 45) 4.03%; 48) 7.20%; 50) 10-15%; 63) 0-5%; 64) 0-5%; 65) 2%	YES	-4 TCC/F	IB	2*-3-0	2.05	133-377.6 F
MP-350	3) 24%; 14) 9%; 17) 4%; 18) 9%; 23) 45-55%; 29) 3%	YES	23 TCC/F	IB	2-3-0	4.86	174-284 F
MP-370	3) 7% 10) 0-10% 14) 3% 15) 0-10% 23) 51% 36) 1%	YES	-4 TCC/F	IB	2*-3-0	4.29	133-334.4 F
MP-400	2) 0.01%; 3) 1.09%; 4) 5.27%; 14) 3.6%; 16) 15.41%; 18) 13.88%; 21) 6.8568%; 22) 5-15%; 27) 0.84%; 36) 0.67%; 45) 0-10%; 46) 0.02%; 48) 5-15%; 63) 0-10%; 79) 0.2382%; 80) 0-10%; 82) 0.1%; 83) 0-5%	YES	-4 TCC/F	IB	2*-3-0	4.87	132-298.4 F
MP-450	2) 0.01%; 3) 1.02%; 4) 4.98%; 14) 3.45%; 16) 14.21%; 18) 13.4%; 22) 5-15%; 27) 0.78%; 36) 0.64%; 45) 15-25%; 46) 0.02%; 79) 0.0621%; 80) 0-10%; 83) 0-5%; 84) 6.78%	YES	-4 TCC/F	IB	2*-3-0	4.78	132-298.4 F
MP-480	2) 0.01%; 3) 1.01%; 4) 4.94%; 14) 3.42%; 16) 14.09%; 18) 13.29%; 22) 5-15%; 27) 0.78%; 36) 0.64%; 45) 15-25%; 46) 0.02%; 66) 6.72%; 79) 0.0616%; 80) 0-10%; 83) 0-5%	YES	-4 TCC/F	IB	2*-3-0	4.79	132-298.4 F
MP-500	8) 0-10%; 14) 6%; 18) 23%; 23) 1%; 27) 15-25%; 29) 10% 34) 7.15%	YES	23 TCC/F	IB	2-3-0	5.31	174-284 F
MP-550	8) 0-5%; 14) 6%; 18) 24%; 27) 10-15%; 29) 10%; 36) 1%; 45) 1.44%; 48) 15.26%; 53) 5-10%; 54) 0-5%; 55) 0-5%; 56) 3.61%	YES	23 TCC/F	IB	2*-3-0	5.34	175 - 294.8 F

MATERIAL SAFETY DATA SHEET

SECTION X - PRODUCT CODES AND INFORMATION

PRODUCT NUMBER	COMPOSITION % BY WEIGHT (HAZARDOUS INGREDIENTS)	EMERG. PLAN*	FLASH POINT	OSHA FLAM CLASS	NFPA H-F-R	VOC LBS./GL	BOILING POINT
MP-600	3) 7%; 8) 0-10%; 14) 4%; 23) 0-5%; 27) 5-15%	YES	45 TCC/F	IB	2-3-0	6.15	172-284 F
MP-900	2) 0.01%; 3) 1.05%; 4) 5.22%; 14) 3.32%; 16) 14.87%; 18) 14.29%; 21) 6.8481%; 22) 5-15%; 27) 0.81%; 36) 0.62%; 46) 0.02%; 48) 5-15%; 63) 0-10%; 79) 0.3473%; 80) 0-10%; 82) 0.1%; 83) 0-5%; 84) 1.17%	YES	-4 TCC/F	IB	2*-3-0	4.75	132-298.4 F
MP-H20	45) 5.36%; 48) 11.72%; 69) 10-15%; 70) 2%; 71) 0-5%	YES	145 TCC/F	IB	1-0-0	1.38	177.8-340 F
MP-750	1) 5%-10%; 7) 0%-5%; 8) 5%-10%; 14) 11%; 36) 3%; 45) 5.60%; 47) 15%-20%; 48) 14.53%; 54) 5%-10%; 66) 5.17%	YES	24 TCC/F	IB	2*-3-0	3.96	172-294.8 F
MP-800	3) 43% 18) 35% 5) 0-10% 14) 4% 40) 1-10% 36) 1% 10) 10%	YES	-4 TCC/F	IB	2-3-0	6.75	174-284 F
MP-850	3) 36% 2) 13% 39) 12% 29) 9% 14) 7% 38) 0-10% 36) 2%	YES	-4 TCC/F	IB	2-3-0	5.33	133-281 F
MPV-212	2) 8%; 19) 0-10%; 37) 5-15%	YES	-4 TCC/F	IB	2-3-0	1.20	133-302 F
MPV-216	2) 8% 19) 0-10% 23) 5-15%	YES	-4 TCC/F	IB	2-3-0	1.04	133-302
MPV-220	2) >22%; 3) >2%; 7) >12%; 33) >20%	YES	-4 TCC/F	IB	2-3-1	1.50	133 F
MPV-225	14) 15% 16) 5-15% 18) 4% 3) 4% 36) 3% 8) 0-10%	YES	23 TCC/F	IB	2-3-0	4.42	174-281 F
MP3-HS	2) 0-5%; 3) 3%; 14) 12%; 16) 5-10%; 18) 1%; 29) 1%; 36) 3%; 44) 10-15%; 45) 11.20%; 47) 10-15%; 48) 7.32%; 49) 5-10%; 51) 0-5%; 57) 10-15%	YES	-4 TCC/F	IB	2*-3-0	3.60	133-281 F
MP4-2K	1) 10-15%; 7) 0-5%; 8) 5-10%; 18) 2%; 19) 5-10%; 45) 7.76%; 47) 10-15%; 48) 14.18%; 51) 0-5%	YES	23 TCC/F	IB	2*-3-0	4.09	172-300 F
MP6-SS	2) 1.27%; 3) 2.64%; 14) 11.71%; 16) 7.5%; 18) 3.82%; 29) 0.66%; 33) 0.1118%; 36) 2.6%; 44) 5-15%; 45) 5-15%; 47) 0-10%; 48) 0-10%; 57) 5-15%; 67) 0.02%; 73) 0.41%; 74) 0.19%; 76) 0.18%; 79) 0.1778%; 86) 0.0047%	YES	-4 TCC/F	IB	2*-3-0	3.78	133-334.4 F
MR-040	1) 15-25%; 2) 5%; 3) 10%; 7) 15-25%; 14) 4%; 23) 20-30%	YES	-4 TCC/F	IB	2-3-0	6.64	133-281 F
MR-050	1) 10-20%; 3) 26%; 8) 15-25%; 14) 17%; 23) 4%; 27) 25-35%	YES	45 TCC/F	IB	2-3-0	7.32	233-284 F
MR-0600	1) 5-15%; 3) 12%; 4) 4%; 7) 45-55%; 18) 11%; 29) 4%	YES	23 TCC/F	IB	1-3-0	7.06	169-248 F
MR-0605	1) 10-20%; 3) 14%; 4) 4%; 7) 5-15% 8) 5-15%; 18) 27%; 29) 4%	YES	23 TCC/F	IB	2-3-0	6.97	169-284 F

MATERIAL SAFETY DATA SHEET

SECTION X - PRODUCT CODES AND INFORMATION

PRODUCT NUMBER	COMPOSITION % BY WEIGHT (HAZARDOUS INGREDIENTS)	EMERG. PLAN*	FLASH POINT	OSHA FLAM CLASS	NFPA H-F-R	VOC LBS./GL	BOILING POINT
MR-07160	3) 26%; 7) 0-10% 18) 45%; 28) 20-30%	YES	23 TCC/F	IB	2-3-0	7.01	169-292 F
MR-07175	1) 10-20%; 2) 8%; 3) 5%; 7) 0-10%; 14) 18%; 28) 25-35%	YES	-4 TCC/F	IB	2-3-0	6.54	133-292 F
MR-07185	6) 45-55%; 8) 0-10%; 15) 10-20%; 17) 10% 20) 0-10%; 28) 0-10%	YES	46 TCC/F	IB	2-3-0	6.75	213-325 F
MR-0860	1)0-10%; 2) 43%; 3) 12%; 5) 0-10%;13) 0-10%; 14) 2%; 15) 15-25% 16) 5-15%	YES	-4 TCC/F	IB	1-3-0	2.98	133-329 F
MR-0870	1) 5-15%; 3) 19%; 5) 0-10%; 8) 15-25%; 10) 5-15%; 18) 33%	YES	20 TCC/F	IB	2-3-0	6.97	174-284 F
MR-0885	1) 0-10%; 3) 10%; 8) 20-30% 13) 5-15%; 14) 6%; 15) 10-20%; 18) 19%	YES	23 TCC/F	IB	2-3-0	7.24	174-329 F
MR-0895	1) 25-35%; 3) 10%; 13) 25-35%; 14) 6%; 15) 0-10%; 18) 11%	YES	23 TCC/F	IB	2-3-0	7.33	174-329 F
MR-0898	1) 0-10%; 9) 13%; 19) 61%; 58) 0.03%; 80) 15-25%; 81) 0-10%; 85) 0.026%	YES	78 TCC/F	IB	2*-3-0	7.00	252-390.2 F
MR-01160	1)0-10%; 2) 35%; 3) 13%; 5) 0-10%; 8) 5-15%; 10) 0-10%; 13) 5-15%; 14) 6%; 16) 5-15%	YES	-4 TCC/F	IB	2-3-0	4.21	133-329 F
MR-01170	1)15-25%; 2) 20%; 3) 13%; 5) 0-10%; 8) 15-25%; 10) 0-10%; 13) 0-10%; 14) 6%	YES	-4 TCC/F	IB	2-3-0	5.42	133-329 F
MR-01185	1) 0-10%; 8) 40-50%; 13) 0-10%; 14) 5%; 15) 0-10%; 18) 21%; 29) 10%	YES	23 TCC/F	IB	2-3-0	7.14	174-329 F
MR-01195	1) 0-10%; 8) 25-35%; 13) 25-30%; 14) 5%; 19) 7%; 23) 1-10%; 31) 0-10%	YES	23 TCC/F	IB	2-3-0	7.38	174-329 F
MR-100LV	2) 0-100%	YES	-4 TCC/F	IB	2-3-0	0.00	133 F
MR-120LV	1) 0-5%; 2) 50-55%; 14) 8%; 29) 14%; 36) 1%; 50) 15-20%	YES	-4 TCC/F	IB	2*-3-0	6.97	133-281 F
MR-321-FR	1) 30-40%; 2) 1%; 8) 20-30%; 9) 0-10%; 12) 0-10%; 30) 18%	YES	-4 TCC/F	IB	2-3-0	7.54	133-370 F
MR-321-SR	1) 45-55%; 8) 15-25%; 14) 7%; 30) 20%	YES	59 TCC/F	IB	2-3-0	7.52	248-284 F

MATERIAL SAFETY DATA SHEET

SECTION X - PRODUCT CODES AND INFORMATION

PRODUCT NUMBER	COMPOSITION % BY WEIGHT (HAZARDOUS INGREDIENTS)	EMERG. PLAN*	FLASH POINT	OSHA FLAM CLASS	NFPA H-F-R	VOC LBS./GL	BOILING POINT
MR-899	3) 9%; 5) 0-5%; 8) 20-25%; 14) 6%; 36) 1%; 41) 30-40%; 42) 0-10%; 43) 0-10%; 59) 0-10%	YES	19 TCC/F	IB	2*-3-0	8.24	201-392 F
MR-8022	2) 15-20%; 3) 18%; 7) 10-15%; 40) 0-10%; 59) 10-20%; 60) 10-15%; 61) 5-10%; 62) 1%	YES	-4 TCC/F	IB	2*-3-0	6.53	133-401F
MRV-213	1) 0-10%; 2) 51%; 14) 8%; 29) 14%; 36) 2%; 37) 10-20%	YES	-4 TCC/F	IB	2-3-0	2.10	133-282 F
MS-082	3) 9%; 14) 31%; 15) 0-10%; 18) 8% 23) 45-55%	YES	23 TCC/F	IB	2-3-0	4.27	174-281 F
MS-1001	1)10-20%; 3) 25%; 7) 0-10%; 8) 10-20%; 14) 5%; 12) 0- 10%; 23) 30-45%	YES	24 TCC/F	IB	2-3-0	5.76	169-311 F
MS-20	1) 5-15%; 8) 10-20%; 9) 0-10%; 14) 22% ; 23) 45-60%	YES	59 TCC/F	IB	2-3-0	4.51	248-370 F
MS-21	1) 30-40%; 14) 3%; 19) 5-15%	YES	76 TCC/F	IB	2-3-0	4.03	248-300 F
MS-035	1) 15-25% 19) 5-15% 14) 3% 10) 0-10% 33) 0-10%	YES	54 TCC/F	IB	2-3-0	3.19	248-300 F
MS-30	1) 5-15% 2) 29% 13) 0-10% 18) 11% 19) 0-10% 20) 0-10%	YES	-4 TCC/F	IB	2-3-0	1.10	133-329 F
MS-42	1) 15%-25%; 19) 10%-20%; 14) 9%; 36) 2%	YES	78 TCC/F	IB	2-3-0	4.31	248-309 F
MS-47	1) 0-5%; 18) 5%; 19) 10-15%; 29) 3%; 46) 0-10%; 52) 0-10%; 68) 25-30%	YES	9 TCC/F	IB	2*-3-0	3.92	132-300 F
MS-52	1) 5%-10%; 2) 20%-25%; 14) 13%; 19) 20%-25%; 33) 0%-10%; 36) 3%	YES	-4 TCC/F	1B	2*-3-0	4.65	133-300 F
MS-076	7) 20-30% 14) 16% 1) 10-20% 8) 0-10% 33) 0-10% 36) 4% 16) 0-10%	YES	24 TCC/F	IB	2-3-0	5.49	169-284 F
MS-747	1) 0-5%; 3) 4%; 5) 0-5%; 8) 5-10%; 18) 11%; 19) 5-10%; 29) 2%; 59) 0-10%; 68) 20-25%	YES	19	IB	2*-3-0	4.70	175-300 F
MS-88	1) 25-30%; 2) 10-15%; 14) 6%; 19) 10-15%; 36) 1%; 52) 0-10%	YES	-4 TCC/F	IB	2*-3-0	4.69	133-300 F
MSV-21	1) 5-10% 2) 5-10% 14) 5% 36) 1.17% 46) 0-5% 50) 45-50% 52) 0-10%	YES	-4 TCC/F	IB	2*-3-0	2.57	132-281 F
MSV-27	2) 8.79%; 14) .06%; 35) .0349%; 36) .01%; 46) 4.27%; 50) 40-50%; 52) 0-10%; 68) 11.06%	YES	-4.0F	IB	2*-3-0	2.61	132F- 292.4F

MATERIAL SAFETY DATA SHEET

SECTION X - PRODUCT CODES AND INFORMATION

PRODUCT NUMBER	COMPOSITION % BY WEIGHT (HAZARDOUS INGREDIENTS)	EMERG. PLAN*	FLASH POINT	OSHA FLAM CLASS	NFPA H-F-R	VOC LBS./GL	BOILING POINT
MSV-85	1) 30-35%; 2) 10-15%; 14) 6%; 19) 15-20%; 36) 1.49%; 52) 0-10%	YES	-4 TCC/F	IB	2*-3-0	4.73	133-300 F
MT-116	2) 10%; 3) 54%; 4) 20%; 14) 10%; 29) 5%	YES	-4 TCC/F	IB	2-3-0	6.30	133-281 F
MX-01	1) 95%; 23) 5%	YES	78 TCC/F	IB	2-3-0	7.17	252 F
MX-081	3) 98% 23) 0-10%	YES	45 TCC/F	IB	2-3-0	0.00	230-231 F
MX-084	32) 90-100%	YES	96 TCC/F	IB	2-3-0	7.98	285 F
MX-110	1) 0-10% 3) 20% 12) 0-10% 14) 19% 16) 0-10% 18) 23% 29) 7% 36) 4%	YES	23 TCC/F	IB	2-3-0	7.05	174-311 F
MX-841	1) 25-35%; 3) 23%; 18) 6%; 23) 40-50%	YES	23 TCC/F	IB	2-3-0	5.01	174-248 F
MX-7000	39) 90-100%	YES	96 TCC/F	IB	3-3-1	6.58	180 F
MX-8000	10) 90-100%	YES	44 TCC/F	IB	2-4-0	6.33	250 F
MX-9000	15) 80-90%; 17) 1%; 27) 0-10%; 31) 0-10%	YES	54 TCC/F	IB	2-3-0	6.35	226-302 F
MXW-9001	11) 1%; 23) 0-10%; 35) 18%	YES	150TCC/F	IB	2-3-0	0.09	

* Products indicated with a "yes" contain ingredients that are subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372.
 ~ NFPA ratings for individual products have not been established. The ratings given are the highest rating of any ingredient contained in that product.

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: April 4, 2006