

PENTEL MARKING CO., LTD. 20100904.1177

24571-XXXX

Preparation Date: 2010/07/28  
 Issue Date: 2010/07/28  
 Section 1: CHEMICAL AND COMPANY IDENTIFICATION  
 Chemical Name: OPTICAL GRAFIC 24571-XXXX, OPTICAL MARKER  
 Product Code: OPTICAL MARKER, OPTICAL MARKER, OPTICAL MARKER, OPTICAL MARKER, OPTICAL MARKER, OPTICAL MARKER, OPTICAL MARKER  
 Company Name: PENTEL OF AMERICA, LTD.  
 Address: 10000 W. CENTRAL EXPRESSWAY, SUITE 100, WESTMINSTER, CO 80540  
 Phone Number: 303-440-2222  
 Fax Number: 303-440-2222  
 Emergency Phone: 303-440-2222  
 Number: 48  
 Use and Restrictions: none

MMP24571A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UY, UV, UW, UX, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ

Section 2: HAZARDS IDENTIFICATION: 1		Hazardous Properties by Color															
GHS Classification		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
		MMP24571A	MMP24571B	MMP24571C	MMP24571D	MMP24571E	MMP24571F	MMP24571G	MMP24571H	MMP24571I	MMP24571J	MMP24571K	MMP24571L	MMP24571M	MMP24571N	MMP24571O	
		Black	Red	Blue	Green	Brown	Orange	Yellow	Light Green	Grey	Pink	Sky Blue	White	White	Gold	Silver	
Physical and Health		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hazard		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Environmental Hazard		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GHS Classification																	
Physical and Health																	
Hazard																	
Environmental Hazard																	
GHS Classification																	

PENTEL MARKER CO., INC. 20090902.1177

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<p>Signal Word</p> <p>Signal Word "DANGER"</p> <p>Signal Word "Warning"</p> <p>H202 Contains Harmful Substances</p> <p>H227 Highly Flammable (Liquid or Vapor)</p> <p>H228 Flammable (Liquid or Vapor)</p> <p>H260 Causes Skin and Eye Irritation</p> <p>H302 Causes Eye Irritation</p> <p>H332 Harmful if Inhaled</p> <p>H335 May Cause Respiratory Irritation</p> <p>H336 May Cause Drowsiness and Stupor</p> <p>H350 Suspected of Causing Cancer</p> <p>H373 Causes Damage to Environment through long-term or repeated exposure</p> <p>H411 May Cause Damage to Aquatic Life through long-term or repeated exposure</p> <p>H412 Very Toxic to Aquatic Life</p> <p>H413 Toxic to Aquatic Life with Long-lasting Effects</p>	<p>Signal Word</p> <p>Signal Word "DANGER"</p> <p>Signal Word "Warning"</p> <p>H202 Contains Harmful Substances</p> <p>H227 Highly Flammable (Liquid or Vapor)</p> <p>H228 Flammable (Liquid or Vapor)</p> <p>H260 Causes Skin and Eye Irritation</p> <p>H302 Causes Eye Irritation</p> <p>H332 Harmful if Inhaled</p> <p>H335 May Cause Respiratory Irritation</p> <p>H336 May Cause Drowsiness and Stupor</p> <p>H350 Suspected of Causing Cancer</p> <p>H373 Causes Damage to Environment through long-term or repeated exposure</p> <p>H411 May Cause Damage to Aquatic Life through long-term or repeated exposure</p> <p>H412 Very Toxic to Aquatic Life</p> <p>H413 Toxic to Aquatic Life with Long-lasting Effects</p>	<p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p>	<p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p>	<p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p>	<p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p>	<p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p>	<p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p>	<p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p>	<p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p>	<p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p>	<p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p>	<p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p>	<p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p> <p>HAZARD STATE</p>	

HARLEN REPORT CO., INC. 30300000001\_V17

1 Hazard ID	2 Hazard Name	3 Hazard ID	4 Hazard ID	5 Hazard ID	6 Hazard ID	7 Hazard ID	8 Hazard ID	9 Hazard ID	10 Hazard ID	11 Hazard ID	12 Hazard ID	13 Hazard ID	14 Hazard ID	15 Hazard ID
	Obtain special instructions before use (P231)	X	X	X	X	X	X	X	X	X	X	X	X	X
	Do not inhale vapors & fumes from the marker and avoid contact (P201)	X	X	X	X	X	X	X	X	X	X	X	X	X
	Keep away from heat, sparks, open flames and hot surfaces. No smoking (P202)	X	X	X	X	X	X	X	X	X	X	X	X	X
	Keep container tightly closed (P233)	X	X	X	X	X	X	X	X	X	X	X	X	X
	Ground or bond container and receiving equipment (P203)	X	X	X	X	X	X	X	X	X	X	X	X	X
	Use explosion-proof electrical, ventilating and lighting equipment (P204)	X	X	X	X	X	X	X	X	X	X	X	X	X
	Use only non-sparking tools (P204)	X	X	X	X	X	X	X	X	X	X	X	X	X
	Take precautionary measures against static discharge (P204)	X	X	X	X	X	X	X	X	X	X	X	X	X
	Avoid breathing dusts (P205)	X	X	X	X	X	X	X	X	X	X	X	X	X
	Avoid breathing gas, vapors and spray (P206)	X	X	X	X	X	X	X	X	X	X	X	X	X
	Avoid breathing dust and fumes (P207)	X	X	X	X	X	X	X	X	X	X	X	X	X
	Wash face thoroughly after handling (P208)	X	X	X	X	X	X	X	X	X	X	X	X	X
	Do not eat, drink or consume anything (P209)	X	X	X	X	X	X	X	X	X	X	X	X	X
	Use only outdoors or in a well-ventilated area (P210)	X	X	X	X	X	X	X	X	X	X	X	X	X
	Avoid release to the environment (P273)	X	X	X	X	X	X	X	X	X	X	X	X	X
	Wear protective gloves, eye protection and face protection (P209)	X	X	X	X	X	X	X	X	X	X	X	X	X
	Use personal protective equipment as required (P201)	X	X	X	X	X	X	X	X	X	X	X	X	X

SECTION 2 - HAZARD IDENTIFICATION  
GHS Label Elements 2

HAZARDOUS MATERIAL IDENTIFICATION 4/17

Hazard	Section 2: HAZARDOUS IDENTIFICATION 4										Section 3: LABEL ELEMENTS 3																
	MA201A	MA201B	MA201C	MA201D	MA201E	MA201F	MA201G	MA201H	MA201I	MA201J	MA201K	MA201L	MA201M	MA201N	MA201O	MA201P	MA201Q	MA201R	MA201S	MA201T	MA201U	MA201V	MA201W	MA201X	MA201Y	MA201Z	
If on skin or hair remove immediately all contaminated clothing. Rinse skin with water or shower. (P303+P361+P353)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	If INHALED: Remove to fresh air and keep at rest in position that eases breathing. (P304+P340)																										
If IN EYES: Flush carefully with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Get medical advice and attention if you feel unwell. (P314)																										
Repeat Inflammatory Statements	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	If eyes irritated get eye doctor medical advice and attention. (P313+P363)																										
Repeat Inflammatory Statements	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	If exposed or concerned Get a TISSUE/CONTAMINATED FOOD (P308+P313)																										
Repeat Inflammatory Statements	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	If exposed or concerned Get medical advice and attention (P308+P313)																										
Repeat Inflammatory Statements	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	If skin irritation or rash occurs, get medical advice and attention (P303+P363)																										
Repeat Inflammatory Statements	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	If case of fire: Use appropriate fire extinguisher (P307+P373)																										
Storage and Precautionary Statements	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Store in well-ventilated place keeping container tightly closed. (P201+P202)																										
Storage and Precautionary Statements	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Store in well-ventilated place. Keep cool. (P203+P232)																										
Storage and Precautionary Statements	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Store isolated up. (P403)																										
Storage and Precautionary Statements	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Dispose of contents and container in accordance with local, regional and national regulations (to be provided). (P501)																										

PENTEL MARKING CO., INC. 3000 WALKER ST

Chemical Name/ Generic Name	Formula	CAS No.	UN No.	Concentration of Ingredients																		
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				
				MMP2-A	MMP2-B	MMP2-C	MMP2-D	MMP2-E	MMP2-F	MMP2-G	MMP2-H	MMP2-I	MMP2-J	MMP2-K	MMP2-L	MMP2-M	MMP2-N	MMP2-O	MMP2-P	MMP2-Q	MMP2-R	MMP2-S
Propylmethylacetate		02221	60496	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Diethylamine	CH <sub>3</sub> N	02221	60496	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Carbon Black		03328 03342	60496	X																		
Hexachrome		09176	60496	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Titanium Dioxide	TiO <sub>2</sub>	13468 03325	60496	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
C1 Pigment Yellow 15		03339 03336	60496	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hydroxide	OH	027	60496	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Methylacrylate	CH <sub>2</sub> =CHCO <sub>2</sub> CH <sub>3</sub>	02230	60496																			
Copper	Cu	Unknown	Unknown																			
Triethyl Phosphate		03321 03320	60496																			
Inhibitor				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Surfactant				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Eye Contact				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ingestion				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Description of Substance or Mixture	Section 3: Composition/ Information on Ingredients														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	MMP2-A	MMP2-B	MMP2-C	MMP2-D	MMP2-E	MMP2-F	MMP2-G	MMP2-H	MMP2-I	MMP2-J	MMP2-K	MMP2-L	MMP2-M	MMP2-N	MMP2-O
Inhalation															
Eye Contact															
Eye Contact															
Ingestion															

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	1		2		3		4		5		6		7		8		9		10		11		12		13		14		15			
	Mark	Back	MAP20-A	MAP20-B	MAP20-C	MAP20-D	MAP20-E	MAP20-F	MAP20-G	MAP20-H	MAP20-I	MAP20-J	MAP20-K	MAP20-L	MAP20-M	MAP20-N	MAP20-O	MAP20-P	MAP20-Q	MAP20-R	MAP20-S	MAP20-T	MAP20-U	MAP20-V	MAP20-W	MAP20-X	MAP20-Y	MAP20-Z	MAP20-AA	MAP20-AB		
Section 5: FIRE FIGHTING MEASURES	Comprising Media																															
	Unstable/Combusting Media	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	Specific Hazards																															
	Provision of Fire fighter																															
Section 6: ACCIDENTAL RELEASE MEASURES 1																																

MARPEN 00001001.001.00000001.1177

1		2		3		4		5		6		7		8		9		10		11		12		13		14		15	
MARPEN A	MARPEN B	MARPEN C	MARPEN D	MARPEN E	MARPEN F	MARPEN G	MARPEN H	MARPEN I	MARPEN J	MARPEN K	MARPEN L	MARPEN M	MARPEN N	MARPEN O	MARPEN P	MARPEN Q	MARPEN R	MARPEN S	MARPEN T	MARPEN U	MARPEN V	MARPEN W	MARPEN X	MARPEN Y	MARPEN Z	MARPEN AA	MARPEN AB	MARPEN AC	MARPEN AD
This product is water-pigmented and should be removed from contact with food or food processing equipment and drainage systems and tanks of water.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
All equipment used when handling the product must be grounded.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Removal from water surface by skimming with absorbent materials.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Do not use dispersants.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Absorbent materials must be used for other non-adsorbent materials and transfer to a drum or other container for disposal.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Vacuum or sweep up material and place in a chemical waste container.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
After removal, flush contaminated area thoroughly with water.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Power blowing into skin, lungs, basement, and closed areas.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Remove thoroughly using absorbent material and dispose of material in the form of the floor.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Methods and Equipment for Containment and Cleanup

Prevention Measures for Secondary Contamination

MAPS01A-MAPS01S (15) 2023/06/16 1:17

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		MAPS01A	MAPS01B	MAPS01C	MAPS01D	MAPS01E	MAPS01F	MAPS01G	MAPS01H	MAPS01I	MAPS01J	MAPS01K	MAPS01L	MAPS01M	MAPS01N	MAPS01O
		Black	Red	Blue	Green	Brown	Orange	Yellow	Light Green	Grey	Pink	Shy Blue	White	White	Gold	Shiny
Technical Material	Prevent release system and use necessary personal protective equipment as described in "Section 8: Exposure Control / PERSONAL PROTECTION"	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Other good practices before use															
	Do not handle until all safety precautions have been read and understood.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Prohibit use of heat, sparks, and fire in the surrounding area.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Do not handle containers with such materials as varying gases, fumes, vapors, to shock, or damage.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Do not eat, drink, or smoke when using this product.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Do not stretch, bend, or compress.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Do not inhale.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Do not use in confined spaces.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Do not use in poorly ventilated areas.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Precautions for Safe Handling	Wash hands thoroughly after handling.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Avoid contact with skin.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Do not breathe dust, vapor, and spray.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Avoid contact with eyes.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Use water for decontamination.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Handle as well-ventilated space.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Protect from high temperature and direct sunlight.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Refer to "Section 8: OSHA REGULATIONS".	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Wash hands thoroughly after handling.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Specific Hygiene Measures	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Section 7 - HANDLING AND STORAGE, 1





MAPEN MARKER, QLS, 30, 30388801, 10/17

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		MAPDA Black	MAPDB Red	MAPDC Blue	MAPDD Green	MAPDE Brown	MAPDF Orange	MAPDG Yellow	MAPDH Light Green	MAPDI Grey	MAPDJ Pink	MAPDK Silver Blue	MAPDL White	MAPDM Gold	MAPDN Grey	MAPDO Silver
Engineering Controls																
Engineering Controls	Use of personal protective equipment (PPE) is required.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Use engineering controls (ventilation, wetting and light equipment).	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Local ventilation systems help exposure conditions remain below the recommended exposure limits (permissible exposure limit) or desired exposure levels.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Local ventilation systems help exposure to air contaminants below the exposure limit (permissible exposure limit) or desired exposure levels.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Personal Protective Equipment	Good general ventilation should be used to control airborne levels.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Respirator or other PPE should be used when working with an aerosol that is not adequately controlled by other means.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Use personal protective equipment as required.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Wear adequate protective apparatus for respiratory organs.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Personal Protective Equipment	Hand Protection															
	Eye Protection	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Skin and Body Protection	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

PENTEL MARKER CO., U.S. PATENTED, U.S.P.

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	
															MAKING
Section 9 - PHYSICAL AND CHEMICAL PROPERTIES	Physical State	Black	Blue	Green	Brown	Orange	Yellow	Light Green	Grey	Pink	White	White	Gold	Silver	
	Appearance	form	X	X	X	X	X	X	X	X	X	X	X	X	X
		Color	Black	Blue	Green	Brown	Orange	Yellow	Light Green	Grey	Pink	White	White	Gold	Silver
	Odor	Odor Threshold	X	X	X	X	X	X	X	X	X	X	X	X	X
		Other	0	0	0	0	0	0	0	0	0	0	0	0	0
	Melting Point/Freezing Point	Other Threshold	X	X	X	X	X	X	X	X	X	X	X	X	X
		PH	X	X	X	X	X	X	X	X	X	X	X	X	X
	Initial Boiling Point and Boiling Range	Other Threshold	X	X	X	X	X	X	X	X	X	X	X	X	X
		Initial Boiling Point and Boiling Range	X	X	X	X	X	X	X	X	X	X	X	X	X
	Flash Point	Other Threshold	24°C	24°C	24°C	24°C	24°C	24°C	24°C	24°C	24°C	24°C	24°C	-103°C	-43°C
		Explosion Limit	X	X	X	X	X	X	X	X	X	X	X	X	X
	Flammability (Solid, gas)	Other Threshold	X	X	X	X	X	X	X	X	X	X	X	X	X
		Flammability (Liquid Limit, Upper Limit)	X	X	X	X	X	X	X	X	X	X	X	X	X
	Flammability (Liquid Limit, Lower Limit)	Other Threshold	X	X	X	X	X	X	X	X	X	X	X	X	X
		Vapor Pressure	X	X	X	X	X	X	X	X	X	X	X	X	X

PENTEL MARKER CO., LTD., 3010 BROADVIEW, ONTARIO

Section	1 Mark Back	2 Mark Red	3 Mark Blue	4 Mark Green	5 Mark Brown	6 Mark Orange	7 Mark Yellow	8 Mark Light Green	9 Mark Grey	10 Mark Pink	11 Mark Silver Blue	12 Mark White	13 Mark Black	14 Mark Gold	15 Mark Silver
Specific Gravity (Density)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Refraction Coefficient, n <sub>D</sub>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Odor / Water	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Acid / Alkali	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Flammability	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Corrosion	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Temperature	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Viscosity	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Stability	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

PENTEL MARKING CO., LTD., BOSTON, MA, USA

Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Section 10 - STABILITY AND REACTIVITY	Reactivity	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Chemical stability	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Possibility of hazardous reaction	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Conditions to avoid	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Incompatible substances or mixtures	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Hazardous decomposition products	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Section 11 - TOXICOLOGICAL INFORMATION	Azote Toxicity	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Skin Corrosion/Irritation	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Serious eye damage/eye irritation	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Respiratory or skin sensitization	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Gen. Cell Mutagenicity	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Carcinogenicity	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Reproductive toxicity	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Specific target organ toxicity (single exposure)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Specific target organ toxicity (repeated exposure)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	Aspiration Hazard	X	X	X	X	X	X	X	X	X	X	X	X	X	X

MARKER PENEL, CO., LTD., 3011 BROADWAY, NY, NY

Section 12 - Ecological Information	Hazard to the aquatic environment (swim)	Hazard to the aquatic environment (long term hazard)	Hazard to the ozone layer	Section 13 - Disposal Considerations	Section 14 - Regulatory Information													
					MAF201A BPR	MAF201B Red	MAF201C Blue	MAF201D Green	MAF201E Brown	MAF201F Orange	MAF201G White	MAF201H Light Green	MAF201I Grey	MAF201J Pink	MAF201K Silver Blue	MAF201L White	MAF201M White	MAF201N Gold
	No data reported except in Section 9, and 13				X	X	X	X	X	X	X	X	X	X	X	X	X	
	No data reported except in Section 9, and 13				X	X	X	X	X	X	X	X	X	X	X	X	X	
	No data available				X	X	X	X	X	X	X	X	X	X	X	X	X	
	Disposal should be in accordance with applicable regulations and standards by the respective local governments.				X	X	X	X	X	X	X	X	X	X	X	X	X	
Section 13 - Disposal Considerations	Residual Waste	Commissions waste disposal company or local public body who are licensed by local or regional government to dispose of the material.			X	X	X	X	X	X	X	X	X	X	X	X	X	
		When commissioning the disposal to a disposal company, verify the danger and code (hazard) to the company.			X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Do not release waste liquid containing the product, and do not use for cleaning, etc., or for disposal with the concerned material used for its function.			X	X	X	X	X	X	X	X	X	X	X	X	X	
	Commissions, Cleaners and Recyclers	Recycle containers after cleaning, or only with the residual under the related law and regulations and standards of the local governments.			X	X	X	X	X	X	X	X	X	X	X	X	X	

PENTEL MARK, INC., 20120001, 1/17

		1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16				
		HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ	HAZDUS HAZ				
Conforms to the product as listed in MSDS		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Information by Supplier		1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203			
Proper Shipping Name		Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint			
Class		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3			
Packaging Group		II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II		
Marine Pollutant		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Transport Index		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Conforms to product of the following UN		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
UN NO.		1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	1203	
Proper Shipping Name		Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint
Class		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Packaging Group		II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II
Emergency Response Guide Number		123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123

Section 14 - TRANSPORT INFORMATION  
International Regulations

MARPEN PAINT CO., LTD. 301300001\_16/17

SECTION 14 - TRANSPORT INFORMATION														
Regulations in Japan														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MARPOL A	MARPOL B	MARPOL C	MARPOL D	MARPOL E	MARPOL F	MARPOL G	MARPOL K	MARPOL L	MARPOL M	MARPOL N	MARPOL P	MARPOL Q	MARPOL R	MARPOL S
Subst.	Subst.	Subst.	Subst.	Subst.	Subst.	Subst.	Subst.	Subst.	Subst.	Subst.	Subst.	Subst.	Subst.	Subst.
Regulatory														
Regulatory information by field of use														
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Confirms to provisions of the Ship Safety Law.														
1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203
Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
II	II	II	II	II	II	II	II	II	II	II	II	II	II	II
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Confirms to provisions of the Ship Safety Law.														
1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203
Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
II	II	II	II	II	II	II	II	II	II	II	II	II	II	II
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Confirms to provisions of the Ship Safety Law.														
1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203
Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint	Paint
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
II	II	II	II	II	II	II	II	II	II	II	II	II	II	II
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Confirms to provisions of the Ship Safety Law.														
1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203	1,203
Emergency Response Code Number	Emergency Response Code Number	Emergency Response Code Number	Emergency Response Code Number	Emergency Response Code Number	Emergency Response Code Number	Emergency Response Code Number	Emergency Response Code Number	Emergency Response Code Number	Emergency Response Code Number	Emergency Response Code Number	Emergency Response Code Number	Emergency Response Code Number	Emergency Response Code Number	Emergency Response Code Number



UNAPPROVED FOR RELEASE BY NSA

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		HAZARDOUS INFORMATION	HAZARDOUS INFORMATION	HAZARDOUS INFORMATION	HAZARDOUS INFORMATION	HAZARDOUS INFORMATION	HAZARDOUS INFORMATION	HAZARDOUS INFORMATION	HAZARDOUS INFORMATION	HAZARDOUS INFORMATION	HAZARDOUS INFORMATION	HAZARDOUS INFORMATION	HAZARDOUS INFORMATION	HAZARDOUS INFORMATION	HAZARDOUS INFORMATION	HAZARDOUS INFORMATION
Section 15 - REGULATORY INFORMATION	Regulatory information with regard to this product in your country or region should be examined by your own regulatory agency.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Section 15 - REGULATORY INFORMATION	<p>Note: This information is provided without warranty or representation. The information is based on the current regulatory requirements of the United States and the United Kingdom. It is not intended to be used as a substitute for the regulatory requirements of any other country. The user is responsible for ensuring that the product is used in accordance with the regulatory requirements of the country in which it is used. The user is also responsible for ensuring that the product is used in accordance with the regulatory requirements of the country in which it is used.</p> <p>Section 15 - REGULATORY INFORMATION</p>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X