

MSDS: B1637

ITEM: 2GKU6 - Paint Marker Brite Mark(R) 916 Gol

ORDER: 0138992450

LP NUMBER: U859724308

MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

MATERIAL SAFETY DATA SHEET - B1637

Associated Grainger Items
2GKU6, 2GKU7

ITW DYKEM(R*)

MATERIAL SAFETY DATA SHEET

HMS (R*)
HEALTH 2
FLAMMABILITY 3
REACTIVITY 0
PERSONAL PROTECTION B

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

IDENTITY: BRITE-MARK GOLD
ITEM NO.: 40014, 41014, 84051, 91014
OTHER NAMES: 33, 916, PM-40
FORMULA: Z774
ANOTHER EXCLUSIVE PRODUCT OF: ITW DYKEM

NOTE:
BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):
805 EAST OLD 56 HIGHWAY
OLATHE, KS 66061-4914

EMERGENCY TELEPHONE NUMBER:
1-800-535-5053 (DOMESTIC)
1-352-323-3500 (INTERNATIONAL)

TELEPHONE NUMBER FOR INFORMATION: 1-800-443-3536 OR 1-913-397-9889

PRODUCT CLASS: SOLVENT BASED MARKER.

SIGNATURE OF PREPARER (OPTIONAL): REGULATORY DEPT.

DATE PREPARED: 9/05/06

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Table with 5 columns: HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY, COMMON NAME(S)), CAS NO., OSHA PEL, ACGIH-TLV, OTHER LIMITS RECOMMENDED, % (OPT.). Rows include XYLENE, COPPER, ETHYL BENZENE, and ZINC.

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: GOLD OPAQUE THIN VISCOSITY LIQUID WITH AROMATIC ODOR.

WARNING!
FLAMMABLE
LIQUID AND VAPOR. KEEP AWAY FROM HEAT SPARKS AND FLAMES. MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. IF SWALLOWED DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.

POTENTIAL HEALTH EFFECTS:

EYES: LIQUID IS MODERATELY IRRITATING TO THE EYES.

SKIN: LIQUID IS MILDLY IRRITATING TO THE SKIN.

INGESTION: INGESTION OF LIQUID MAY CAUSE VOMITING.

INHALATION:
HIGH CONCENTRATION OF VAPORS MAY PRODUCE IRRITATION OF THE RESPIRATORY TRACT, HEADACHE, DIZZINESS, AND NAUSEA.

CHRONIC HEALTH EFFECTS:
PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN SENSITIZATION OR DERMATITIS. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH IRREVERSIBLE BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING OR INHALING THIS PRODUCT MAY BE HARMFUL OR FATAL. IARC (INTERNATIONAL AGENCY FOR RESEARCH OF CANCER) HAS CLASSIFIED ETHYL BENZENE AS A POSSIBLE HUMAN CARCINOGEN (2B).

SECTION 4 FIRST AID MEASURES

EYES:
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION:
REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN:
FLUSH SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES.
INGESTION:
IF LARGE QUANTITIES OF THIS MATERIAL ARE SWALLOWED, GET IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED): 79 DEG. F

FLAMMABLE LIMITS:
LEL: 1.3
UEL: 12.3

EXTINGUISHING MEDIA:
USE WATER FOG, FOAM, DRY CHEMICAL OR CO2. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS AND TO PROTECT PERSONNEL.

SPECIAL FIRE FIGHTING PROCEDURES:
KEEP CONTAINERS COOL AND VAPORS DOWN WITH WATER SPRAY. PREVENT SPILL FROM ENTERING DRAINS, SEWERS, STREAMS OR OTHER BODIES OF WATER. IF RUN-OFF OCCURS, NOTIFY PROPER AUTHORITIES. DO NOT ENTER CONTAINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, GLOVES, BOOTS, GLOVES AND FIRE-RESISTANT BOOTS), INCLUDING A POSITIVE PRESSURE MICH APPROVED SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG GROUND, OR BE MOVED BY VENTILATION AND BE IGNITED BY IGNITION SOURCE.

SECTION 6 ACCIDENTAL RELEASE MEASURES

SMALL SPILL:
ABSORB LIQUID WITH NON-COMBUSTIBLE FLOOR ABSORBENT AND PLACE IN NON-LEAKING CONTAINER; SEAL PROPERLY AND DISPOSE OF PROPERLY IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

LARGE SPILL:
EVACUATE AREA OF UNPROTECTED PERSONNEL. ELIMINATE ALL IGNITION SOURCES. STOP SPILL AT SOURCE IF SAFE TO DO SO. CONTAIN SPILL TO PREVENT SPREADING. PREVENT SPILL FROM ENTERING DRAINS, SEWERS, STREAMS OR OTHER BODIES OF WATER. IF RUN-OFF OCCURS, NOTIFY PROPER AUTHORITIES. PUMP OR VACUUM TRANSFER SPILLED PRODUCT TO CLEAN CONTAINERS FOR RECOVERY. ABSORB UNRECOVERABLE PRODUCT. TRANSFER CONTAMINATED ABSORBENT, SOIL AND OTHER MATERIALS TO CONTAINERS FOR PROPER DISPOSAL IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

SECTION 7 HANDLING AND STORAGE

HANDLING:
EMPTY CONTAINERS RETAIN RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE REWORKED. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, SPARKS, FLAMES, STATIC ELECTRICITY, OR OTHER SOURCE OF IGNITION. MANY HOT ORGANIC CHEMICAL MIXTURES OR MISTS ARE SUSCEPTIBLE TO SUDDEN SPONTANEOUS COMBUSTION WHEN MIXED WITH AIR. IGNITION MAY OCCUR AT TEMPERATURES BELOW THOSE PUBLISHED IN THE LITERATURE AS "AUTOIGNITION" OR "IGNITION TEMPERATURES. IGNITION TEMPERATURES DECREASE WITH INCREASED VOLUME AND VAPOR VOLUME AND VAPOR/AIR CONTACT TIME, AND ARE INFLUENCED BY PRESSURE CHANGES. IGNITION OF ORGANIC CHEMICAL MIXTURES MAY OCCUR AT ELEVATED-TEMPERATURE PROCESS CONDITIONS, ESPECIALLY IN PROCESSES OPERATING UNDER VACUUM IF SUBJECTED TO SUDDEN INFLUX OF AIR, OR OUTSIDE PROCESSES EQUIPMENT OPERATING UNDER ELEVATED PRESSURE IF SUDDEN ESCAPE OF VAPORS OR MISTS TO THE ATMOSPHERE OCCURS. ANY PROPOSED USE OF THIS PRODUCT IN ELEVATED-TEMPERATURE PROCESSES SHOULD BE THOROUGHLY EVALUATED TO ASSURE THAT SAFE OPERATING CONDITIONS ARE ESTABLISHED AND MAINTAINED.

STORAGE:
KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAMES. KEEP OUT OF REACH OF CHILDREN. KEEP CONTAINER TIGHTLY SEALED WHEN NOT IN USE. STORE IN COOL, WELL-VENTILATED PLACE AWAY FROM INCOMPATIBLE MATERIALS. INFORMATION ON THIS MATERIAL SAFETY DATA SHEET REFERS TO INK USED IN PENS AND MARKERS. HOWEVER, IT APPLIES TO THESE INKS IN BULK. THE INKS ARE CONTAINED IN CAPILLARY OR VALVE RESERVOIRS AND WILL NOT SPILL OR LEAK UNDER NORMAL CONDITIONS.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE):
NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/NIHE APPROVED RESPIRATOR IF PELS OR TLVs ARE EXCEEDED.

ENGINEERING CONTROLS:
LOCAL EXHAUST: NOT USUALLY NEEDED
SPECIAL: NONE
MECHANICAL (GENERAL): YES
OTHER: NONE

PROTECTIVE GLOVES:
CHEMICAL RESISTANT GLOVES IF SKIN CONTACT IS POSSIBLE (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER).

EYE PROTECTION:
NOT NORMALLY REQUIRED IF USED AS INTENDED. WEAR CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATION IF SPLASHING IS POSSIBLE.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
NOT USUALLY NECESSARY. FOR BULK MATERIAL, IF DIRECT CONTACT IS POSSIBLE, WEAR APRON, BOOTS, FACE SHIELD, ETC. AS NEEDED.

WORK/HYGIENIC PRACTICES:
FOLLOW LABEL INSTRUCTIONS. WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, SMOKING, USING RESTROOMS, ETC.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 282 TO 286 DEG. F
SPECIFIC GRAVITY (H2O = 1) @ 70 DEG. F: >1
VAPOR PRESSURE (MM-Hg @ 70 DEG. F): NO DATA
MELTING POINT: NO DATA
VAPOR DENSITY (AIR = 1): GREATER THAN ONE (1)
EVAPORATION RATE (BUTYL ACETATE = 1): LESS THAN ONE (1)
SOLUBILITY IN WATER: NEGLIGIBLE
pH: NO DATA
APPEARANCE AND ODOR: GOLD OPAQUE THIN VISCOSITY LIQUID WITH AROMATIC ODOR.
VOC: THIS PRODUCT CONTAINS 657 GRAMS PER LITER OR 59.76% BY WEIGHT VOC'S.

SECTION 10 STABILITY AND REACTIVITY

CHEMICAL STABILITY:
UNSTABLE ()
STABLE (X)
CONDITIONS TO AVOID: NONE KNOWN.
INCOMPATIBILITY (MATERIALS TO AVOID):
STRONG OXIDIZING AND REDUCING AGENTS, STRONG ALKALIES AND STRONG ACIDS.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.
HAZARDOUS POLYMERIZATION:
MAY OCCUR ()
WILL NOT OCCUR (X)
CONDITIONS TO AVOID: NO DATA

SECTION 11 TOXICOLOGICAL INFORMATION

Table with 4 columns: Chemical Name, Oral LD50 (Rat), Dermal LD50 (Rabbit), Inhalation LC50 (Rat). Rows include XYLENE and HYDROCARBON RESIN.

PLEASE REFER TO SECTION 3 FOR AVAILABLE INFORMATION ON POTENTIAL HEALTH EFFECTS.

SECTION 12 ECOLOGICAL INFORMATION

NO SPECIFIC ECOLOGICAL DATA ARE AVAILABLE FOR THIS PRODUCT. PLEASE REFER TO SECTION 6 FOR INFORMATION REGARDING ACCIDENTAL RELEASES AND SECTION 15 FOR REGULATORY REPORTING INFORMATION.

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION 14 TRANSPORT INFORMATION

(NOT MEANT TO BE ALL INCLUSIVE)

DOMESTIC HIGHWAY (CONTAINERS <1 QUART ARE ORM-D):
PROPER SHIPPING NAME: PAINT
HAZARD CLASS/SUBSIDIARY HAZARD: 3
UN/NA NO.: UN1263
PACKING GROUP: III
LABEL REQUIRED: FLAMMABLE LIQUID (3)

DOMESTIC AIR SHIPMENTS (PENS):
PROPER SHIPPING NAME: CONSUMER COMMODITY
HAZARD CLASS/SUBSIDIARY HAZARD: 9
UN/NA NO.: I.D. 8000
PACKING GROUP: NONE
LABEL REQUIRED: CLASS 9

SECTION 15 REGULATORY INFORMATION

(NOT MEANT TO BE ALL INCLUSIVE - SELECTED REGULATIONS REPRESENTED)

U.S. FEDERAL REGULATIONS:

TSCA: COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.

CARCINOGENICITY:
NTP?: NO
IARC MONOGRAPHS?: 2B
OSHA REGULATED?: NO

OSHA:
HAZARDOUS BY DEFINITION OF HAZARD COMMUNICATION STANDARD
(29 CFR 1910.1200).

SECTION 313:
THIS PRODUCT CONTAINS XYLENE (1330-20-7) AND ETHYL BENZENE (100-41-4) WHICH ARE LISTED AND MAY REQUIRE REPORTING UNDER SARA TITLE III SEC. 313 IF USED OVER THE THRESHOLD REPORTING QUANTITY. THIS INFORMATION MUST BE INCLUDED IN ALL MSDS THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS: NOT WHMIS CONTROLLED (PENS)

BULK: CLASS B2, D2A

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:
THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. BENZENE, ETHYL BENZENE.

THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. TOLUENE, BENZENE.

SECTION 16 OTHER INFORMATION

MSDS STATUS: REVISED SECTION(S): SECTION 15 HAS BEEN UPDATED.

WARNING:

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER AND DISTRIBUTOR; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICES. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM THE USE OF SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER AND DISTRIBUTOR WARRANT ONLY THAT THIS PRODUCT MEETS THE SPECIFICATIONS FOR SUCH PRODUCT.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER OF THIS PRODUCT. THE MANUFACTURER AND DISTRIBUTOR SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER AND DISTRIBUTOR FOR BREACH OF WARRANTY SHALL BE REFUNDMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

ITEM: 2GKU7 - Paint Marker Brite Mark(R) 916 sil

MSDS: B1638

ORDER: 0138992450

LP NUMBER: U859724308

MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

MATERIAL SAFETY DATA SHEET - B1638

Associated Grainger Items
2GKU7, 2GKV8

ITW DYKEM(R*)

MATERIAL SAFETY DATA SHEET

HMS(R*):
HEALTH 2
FLAMMABILITY 3
REACTIVITY 0
PERSONAL PROTECTION B

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

IDENTITY: BRITE-MARK SILVER

ITEM NO.: 40016, 41016, 84050, 91016

OTHER NAMES: 33, 916, PM-40

FORMULA: ER054

NOTE:
BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

ANOTHER EXCLUSIVE PRODUCT OF: ITW DYKEM

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):
805 EAST OLD 56 HIGHWAY
OLATHE, KS 66061-4914

EMERGENCY TELEPHONE NUMBER:
1-800-535-5053 (DOMESTIC), 1-352-323-3500 (INTERNATIONAL)

TELEPHONE NUMBER FOR INFORMATION: 1-800-443-9536 OR 1-913-397-9889

PRODUCT CLASS: SOLVENT BASED MARKER.

SIGNATURE OF PREPARER (OPTIONAL): REGULATORY DEPT.

DATE PREPARED: 9/05/06

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	OSHA PEL	ACGIH-TLV	OTHER LIMITS RECOMMENDED	% (OPT.)
XYLENE	1330-20-7	TWA: 100 PPM	TWA: 100 PPM	NO DATA	50 - 60
STODDARD SOLVENT	8052-41-3	TWA: 500 PPM	TWA: 100 PPM	NO DATA	10 - 20
ALUMINUM FLAKE	7429-90-5	TWA: 15 MG/M3	TWA: 10 MG/M3	NUISANCE DUST*	10 - 20
ETHYL BENZENE	100-41-4	TWA: 100 PPM	TWA: 100 PPM	NO DATA	1 - 10

*NUISANCE DUST AS FREE DUST ONLY, NOT AS BOUND IN PAINT OR INK.

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
SILVER OPAQUE THIN VISCOSITY LIQUID WITH AROMATIC ODOR.

WARNING!

FLAMMABLE LIQUID AND VAPOR. KEEP AWAY FROM HEAT SPARKS AND FLAMES. MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. IF SWALLOWED DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.

POTENTIAL HEALTH EFFECTS:

EYES: LIQUID IS MODERATELY IRRITATING TO THE EYES.

SKIN: LIQUID IS MILDLY IRRITATING TO THE SKIN.

INGESTION: INGESTION OF LIQUID MAY CAUSE VOMITING.

INHALATION:
HIGH CONCENTRATION OF VAPORS MAY PRODUCE IRRITATION OF THE RESPIRATORY TRACT, HEADACHE, DIZZINESS, AND NAUSEA.

CHRONIC HEALTH EFFECTS:
PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN SENSITIZATION OR DERMATITIS. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH IRREVERSIBLE BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING OR INHALING THIS PRODUCT MAY BE HARMFUL OR FATAL. IARC (INTERNATIONAL AGENCY FOR RESEARCH OF CANCER) HAS CLASSIFIED ETHYL BENZENE AS A POSSIBLE HUMAN CARCINOGEN (2P).

SECTION 4 FIRST AID MEASURES

EYES:
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION:
REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION.

IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN:
FLUSH SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES.

INGESTION:
IF LARGE QUANTITIES OF THIS MATERIAL ARE SWALLOWED, GET IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED): 79 DEG. F

FLAMMABLE LIMITS:

LEL: 0.9

UEL: 12.3

EXTINGUISHING MEDIA:

USE WATER FOG, FOAM, DRY CHEMICAL OR CO₂. USE WATER SPRAY/FOG TO COOL FIRE-EXPOSED CONTAINERS AND TO PROTECT PERSONNEL.

SPECIAL FIRE FIGHTING PROCEDURES:

KEEP CONTAINERS COOL AND VAPORS DOWN WITH WATER SPRAY. PREVENT SPILL FROM ENTERING DRAINS, SEWERS, STREAMS OR OTHER BODIES OF WATER. IF RUN-OFF OCCURS, NOTIFY PROPER AUTHORITIES. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS), INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

ALUMINUM PARTICLES SUSPENDED IN AIR MAY FORM AN EXPLOSIVE MIXTURE. AVOID ANY DISTURBANCE WHICH COULD CAUSE A DUST CLOUD, SUCH AS DIRECTIONAL WATER STREAMS OR GAS PROPELLED FIRE EXTINGUISHING BY THE BURNING MATERIAL. DO NOT USE HALOGENATED EXTINGUISHING AGENTS. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG GROUND, OR BE MOVED BY VENTILATION AND BE IGNITED BY IGNITION SOURCE.

SECTION 6 ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

ABSORB LIQUID WITH NON-COMBUSTIBLE FLOOR ABSORBENT AND PLACE IN NON-LEAKING CONTAINER; SEAL PROPERLY AND DISPOSE OF PROPERLY IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

LARGE SPILL:

EVACUATE AREA OF UNPROTECTED PERSONNEL. ELIMINATE ALL IGNITION SOURCES. STOP SPILL AT SOURCE IF SAFE TO DO SO. HANDLING EQUIPMENT MUST BE CONTAINED TO PREVENT SPARKING. PREVENT SPILL FROM ENTERING DRAINS, SEWERS, DITCHES OR OTHER BODIES OF WATER. IF RUN-OFF OCCURS, NOTIFY PROPER AUTHORITIES. STOP OR VACUUM TRANSFER SPILLED PRODUCT TO CLEAN CONTAINERS FOR RECOVERY. AVOID UNRECOVERABLE PRODUCT. TRANSFER CONTAMINATED ABSORBENT, SOIL AND OTHER MATERIALS TO CONTAINERS FOR DISPOSAL. DISPOSE OF PROPERLY IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

SECTION 7 HANDLING AND STORAGE

HANDLING:

EMPTY CONTAINERS RETAIN RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE HAZARDOUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, SPARKS, FLAMES, STATIC ELECTRICITY, OR OTHER SOURCE OF IGNITION. MANY HOT ORGANIC CHEMICAL VAPORS OR MISTS ARE SUSCEPTIBLE TO SUDDEN SPONTANEOUS COMBUSTION WHEN HEATED WITH AIR. IGNITION MAY OCCUR AT TEMPERATURES BELOW THOSE PUBLISHED IN THE LITERATURE AS "AUTOIGNITION" OR IGNITION TEMPERATURES. IGNITION TEMPERATURES DECREASE WITH INCREASING VAPOR VOLUME AND VAPOR VOLUME AND VAPOR/AIR CONTACT TIME, AND ARE INFLUENCED BY PRESSURE CHANGES. IGNITION OF ORGANIC CHEMICAL VAPORS MAY OCCUR AT TYPICAL ELEVATED-TEMPERATURE PROCESS CONDITIONS, ESPECIALLY IN PROCESSES OPERATING UNDER VACUUM IF SUBJECTED TO SUDDEN INCREASE OF AIR, OR OUTSIDE PROCESS EQUIPMENT OPERATING UNDER ELEVATED PRESSURE IF SUDDEN ESCAPE OF VAPORS OR MISTS TO THE ATMOSPHERE OCCURS. ANY PROPOSED USE OF THIS PRODUCT IN ELEVATED-TEMPERATURE PROCESSES SHOULD BE THOROUGHLY EVALUATED TO ASSURE THAT SAFE OPERATING CONDITIONS ARE ESTABLISHED AND MAINTAINED.

STORAGE:

KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAMES. KEEP OUT OF REACH OF CHILDREN. KEEP CONTAINER TIGHTLY SEALED WHEN NOT IN USE. STORE IN COOL, WELL-VENTILATED PLACE AWAY FROM INCOMBUSTIBLE MATERIALS. INFORMATION ON THIS MATERIAL SAFETY DATA SHEET INTENDS TO BE USED IN PENS AND MARKERS. HOWEVER, IT APPLIES TO THESE ENDS IN BULK. THE INKS ARE CONTAINED IN CAPILLARY OR VALVE RESERVOIRS AND WILL NOT SPILL OR LEAK UNDER NORMAL CONDITIONS.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE):

NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELs OR TLVs ARE EXCEEDED.

ENGINEERING CONTROLS:

LOCAL EXHAUST: NOT USUALLY NEEDED

MECHANICAL (GENERAL): YES

SPECIAL: NONE

OTHER: NONE

PROTECTIVE GLOVES:

CHEMICAL RESISTANT GLOVES IF SKIN CONTACT IS POSSIBLE (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER).

EYE PROTECTION:

NOT NORMALLY REQUIRED IF USED AS INTENDED. WEAR CHEMICAL RESISTANT GOGGLES IN COMPLIANCE WITH OSHA REGULATION IF SPLASHING IS POSSIBLE.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

NOT USUALLY NECESSARY. FOR BULK MATERIAL, IF DIRECT CONTACT IS POSSIBLE, WEAR APRON, BOOTS, FACE SHIELD, ETC. AS NEEDED.

WORK/HYGIENIC PRACTICES:
FOLLOW LABEL INSTRUCTIONS. WASH HANDS AFTER USE AND BEFORE EATING,
DRINKING, SMOKING, USING RESTROOMS, ETC.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 262 TO 286 DEG. F
SPECIFIC GRAVITY (H2O=1) @ 70 DEG. F: >1
VAPOR PRESSURE (MM-Hg @ 70 DEG. F): NO DATA
MELTING POINT: NO DATA
VAPOR DENSITY (AIR=1): GREATER THAN ONE (1)
EVAPORATION RATE (BUTYL ACETATE = 1): LESS THAN ONE (1)
SOLUBILITY IN WATER: NEGLIGIBLE
pH: NO DATA
APPEARANCE AND ODOR:
SILVER OPAQUE THIN VISCOSITY LIQUID WITH AROMATIC ODOR.
VOC: THIS PRODUCT CONTAINS 643 GRAMS PER LITER OR 65.56% BY WEIGHT VOC'S.

SECTION 10 STABILITY AND REACTIVITY

CHEMICAL STABILITY:
UNSTABLE ()
STABLE (X)
CONDITIONS TO AVOID: NONE KNOWN.
INCOMPATIBILITY (MATERIALS TO AVOID):
STRONG OXIDIZING AND REDUCING AGENTS, STRONG ALKALIES, STRONG ACIDS AND
HALOGENATED HYDROCARBONS.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
CARBON DIOXIDE, CARBON MONOXIDE, ALUMINUM OXIDE, SMOKE, SOOT AND VARIOUS
ORGANIC OXIDATION BY-PRODUCTS.
HAZARDOUS POLYMERIZATION:
MAY OCCUR ()
WILL NOT OCCUR (X)
CONDITIONS TO AVOID: NO DATA

SECTION 11 TOXICOLOGICAL INFORMATION

	ORAL LD50 (RAT)	DERMAL LD50 (RABBIT)	INHALATION LC50 (RAT)
XYLENE	4300 MG/KG	NO DATA	NO DATA
HYDROCARBON RESIN	>500 MG/KG	NO DATA	NO DATA
STODDARD SOLVENT	>5000 MG/KG	>3160 MG/KG	NO DATA

PLEASE REFER TO SECTION 3 FOR AVAILABLE INFORMATION ON POTENTIAL HEALTH EFFECTS.

SECTION 12 ECOLOGICAL INFORMATION

NO SPECIFIC ECOLOGICAL DATA ARE AVAILABLE FOR THIS PRODUCT. PLEASE REFER TO SECTION 6 FOR INFORMATION REGARDING ACCIDENTAL RELEASES AND SECTION 15 FOR REGULATORY REPORTING INFORMATION.

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION 14 TRANSPORT INFORMATION

(NOT MEANT TO BE ALL INCLUSIVE)

DOMESTIC HIGHWAY (CONTAINERS <1 QUART ARE ORM-D):
PROPER SHIPPING NAME: PAINT
HAZARD CLASS/SUBSIDIARY HAZARD: 3
UN/NA NO.: UN1263
PACKING GROUP: III
LABEL REQUIRED: FLAMMABLE LIQUID (3)

DOMESTIC AIR SHIPMENTS (PENS):
PROPER SHIPPING NAME: CONSUMER COMMODITY
HAZARD CLASS/SUBSIDIARY HAZARD: 9
UN/NA NO.: I.D. 8000
PACKING GROUP: NONE
LABEL REQUIRED: CLASS 9

SECTION 15 REGULATORY INFORMATION

(NOT MEANT TO BE ALL INCLUSIVE - SELECTED REGULATIONS REPRESENTED)

U.S. FEDERAL REGULATIONS:

CARCINOGENICITY:
NTP?: NO
IARC MONOGRAPHS?: 2B
OSHA REGULATED?: NO

OSHA:
HAZARDOUS BY DEFINITION OF HAZARD COMMUNICATION STANDARD(29 CFR 1910.1200).

SECTION 313:
THIS PRODUCT CONTAINS XYLENE (1330-20-7) AND ETHYL BENZENE (100-41-4) WHICH ARE LISTED AND MAY REQUIRE REPORTING UNDER SARA TITLE III SEC. 313 IF USED OVER THE THRESHOLD REPORTING QUANTITY. THIS INFORMATION MUST BE INCLUDED IN ALL MSDSS THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

INTERNATIONAL REGULATIONS:
CANADIAN WHMIS: NOT WHMIS CONTROLLED (PENS)
BULK: CLASS B2, D2A

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:
THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. BENZENE, ETHYL BENZENE.

THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. TOLUENE, BENZENE.

SECTION 16 OTHER INFORMATION

MSDS STATUS:
REVISED SECTION(S): SECTION 15 HAS BEEN UPDATED

WARNING:
THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER AND DISTRIBUTOR; THEREFORE, NO GUARANTEE, REPRESENTED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM USE, MISUSE, AS SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER AND DISTRIBUTOR WARRANT ONLY THAT THIS PRODUCT MEETS THE SPECIFICATIONS FOR SUCH PRODUCT.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER OF THIS PRODUCT. THE MANUFACTURER AND DISTRIBUTOR SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER AND DISTRIBUTOR FOR BREACH OF WARRANTY SHALL BE REFUNDMENT OF THE UNPAID PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

ITEM: 2GKV1 - Paint Marker Brite Mark(R) Red

MSDS: D0693

ORDER: 0138992450

LP NUMBER: U859724308

MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

MATERIAL SAFETY DATA SHEET - D0693

Associated Grainger Items
2GKU9, 2GKT8, 2GKV1, 2GKT3

ITW DYKEM(R*)

MATERIAL SAFETY DATA SHEET

HMS(R*):
HEALTH 2
FLAMMABILITY 3
REACTIVITY 0
PERSONAL PROTECTION B

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

IDENTITY: DYKEM/BRITE-MARK ALL COLORS

ITEM NO.:
BLACK(40003, 41003, 84002), BLUE(40001, 41001, 84001), BROWN(40007, 84010),
GOLD(40014, 41014, 84051), GREEN(40004, 41004, 77007, 84007), LIGHT
BLUE(84008), ORANGE(40010, 41010, 84005), PINK(40003, 84009), RED(40002,
41002, 84006), SILVER(40016, 41016, 84050), VIOLET(40045, 41045, 84019),
WHITE(40008, 41008, 84003), YELLOW(40006, 41006, 84004).

OTHER NAMES: 916, PM40, AND FINE LINE.

FORMULA:
A720M(BLACK), A788M(BLUE), A786M(BROWN), A946M(GOLD), A789M(GREEN),
A783M(LIGHT BLUE), A790M(ORANGE), A787M(PINK), A791M(RED), A945M(SILVER),
A785M(VIOLET), A718M(WHITE), A719M(YELLOW).

ANOTHER EXCLUSIVE PRODUCT OF: ITW DYKEM

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):
805 EAST OLD 56 HIGHWAY
OLATHE, KS 66061-4914

EMERGENCY TELEPHONE NUMBER:
1-800-535-5053 (DOMESTIC)
1-352-323-3500 (INTERNATIONAL)

TELEPHONE NUMBER FOR INFORMATION: 1-800-443-9536 OR 1-913-397-9889

DATE PREPARED: 9/21/12

PRODUCT CLASS: SOLVENT BASED MARKER.

SIGNATURE OF PREPARER (OPTIONAL): REGULATORY DEPT.

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	% (OPT.)
BUTYL ACETATE	123-86-4	35 - 80
1-METHOXY-2-PROPANOL ACETATE	108-65-6	1 - 30
AROMATIC NAPHTHA, LIGHT	64742-95-6	1 - 10
MAY CONTAINS ONE OR MORE OF THE FOLLOWING...		
ALUMINUM FLAKE	7429-90-5	10 - 20
COPPER	7440-50-8	10 - 20
TITANIUM DIOXIDE	13463-67-7	1 - 40
DIARYLIDE YELLOW	5468-75-7	1 - 20
PHthalocyanine BLUE	MIXTURE	1 - 20
COPPER COMPOUNDS	147-14-8	1 - 10
ISOPROPYL ALCOHOL	67-63-0	1 - 10
CARBON BLACK	1333-86-4	1 - 10
C.I. PIGMENT VIOLET 1	1326-03-0	1 - 10
GREEN PIGMENT	1328-53-6	1 - 10
RED PIGMENT	5280-66-0	1 - 10
MANGANESE COMPOUNDS	7439-96-5	1 - 10
DISAZO ORANGE	15793-73-4	1 - 10

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY, COMMON NAME(S))	OSHA PEL	ACGIH-TLV	OTHER LIMITS RECOMMENDED
BUTYL ACETATE	TWA: 150 PPM	TWA: 150 PPM	NO DATA
1-METHOXY-2-PROPANOL ACETATE	NO DATA	NO DATA	NO DATA
AROMATIC NAPHTHA, LIGHT	TWA: 100 PPM	NO DATA	NO DATA
MAY CONTAINS ONE OR MORE OF THE FOLLOWING...			
ALUMINUM FLAKE	TWA: 15 MG/MB	TWA: 10 MG/MB	NUISANCE DUST*
COPPER	TWA: 1 MG/MB	TWA: 1 MG/MB	NUISANCE DUST*

TITANIUM DIOXIDE	TWA: 10 MG/MB	TWA: 10 MG/MB	NUISANCE DUST*
DIARYLIDE YELLOW	NO DATA	NO DATA	NUISANCE DUST*
PHthalocyanine BLUE	NO DATA	NO DATA	NUISANCE DUST*
COPPER COMPOUNDS	TWA: 0.1 MG/MB	TWA: 0.2 MG/MB	NUISANCE DUST*
ISOPROPYL ALCOHOL	TWA: 400 PPM	TWA: 400 PPM	NO DATA
CARBON BLACK	TWA: 3.5 MG/MB	TWA: 3.5 MG/MB	NUISANCE DUST*
C.I. PIGMENT VIOLET 1	NO DATA	NO DATA	NUISANCE DUST*
GREEN PIGMENT	NO DATA	NO DATA	NUISANCE DUST*
RED PIGMENT	NO DATA	NO DATA	NUISANCE DUST*
MANGANESE COMPOUNDS	TWA: 5 MG/MB	TWA: 0.2 MG/MB	NUISANCE DUST*
DISAZO ORANGE	NO DATA	NO DATA	NUISANCE DUST*

*NUISANCE DUST AS FREE DUST ONLY, NOT AS BOUND IN PAINT OR INK.

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING!

FLAMMABLE LIQUID AND VAPOR. KEEP AWAY FROM HEAT, SPARKS AND FLAMES. MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. IF SWALLOWED DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.

POTENTIAL HEALTH EFFECTS:

EYES: LIQUID IS MODERATELY IRRITATING TO THE EYES.

SKIN: LIQUID IS MILDLY IRRITATING TO THE SKIN.

INGESTION: INGESTION OF LIQUID MAY CAUSE VOMITING.

INHALATION:

HIGH CONCENTRATION OF VAPORS MAY PRODUCE IRRITATION OF THE RESPIRATORY TRACT, HEADACHE, DIZZINESS, AND NAUSEA.

CHRONIC HEALTH EFFECTS:

PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN SENSITIZATION OR DERMATITIS. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL EXPOSURE TO SOLVENTS WITH IRREVERSIBLE BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING OR INHALING THIS PRODUCT MAY BE HARMFUL OR FATAL. IARC (INTERNATIONAL AGENCY FOR RESEARCH OF CANCER) HAS CLASSIFIED CARBON BLACK AND TITANIUM DIOXIDE AS A POSSIBLE HUMAN CARCINOGEN (2B).

SECTION 4 FIRST AID MEASURES

EYES:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION:

REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN:

FLUSH SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES.

INGESTION:

IF LARGE QUANTITIES OF THIS MATERIAL ARE SWALLOWED, GET IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED): 81 DEG. F (TCC)

FLAMMABLE LIMITS:

LEL: 1.7
UEL: 7.6

EXTINGUISHING MEDIA:

USE WATER FOG, FOAM, DRY CHEMICAL OR CO₂. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS AND TO PROTECT PERSONNEL.

SPECIAL FIRE FIGHTING PROCEDURES:

KEEP CONTAINERS COOL AND VAPORS DOWN WITH WATER SPRAY. PREVENT SPILL FROM ENTERING DRAINS, SEWERS, STREAMS OR OTHER BODIES OF WATER. IF SPILL OCCURS, NOTIFY PROPER AUTHORITIES. DO NOT ENTER CONTAINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, GLOVES, COATS, GLOVES AND RUBBER BOOTS), INCLUDING A POSITIVE PRESSURE MICHIGAN APPROVED SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG GROUND, OR BE MOVED BY VENTILATION AND BE IGNITED BY IGNITION SOURCES.

SECTION 6 ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

ABSORB LIQUID WITH NON-COMBUSTIBLE FLOCK ABSORBENT AND PLACE IN NON-LEAKING CONTAINER; SEAL PROPERLY AND DISPOSE OR RECYCLE IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

LARGE SPILL:

EVACUATE AREA OF UNPROTECTED PERSONNEL. ELIMINATE ALL IGNITION SOURCES. STOP SPILL AT SOURCE IF SAFE TO DO SO. HAZARDOUS EQUIPMENT MUST BE CHECKED TO PREVENT SPARKING. PREVENT SPILL FROM ENTERING DRAINS, SEWERS, STREAMS OR

OTHER BODIES OF WATER. IF RUN-OFF OCCURS, NOTIFY PROPER AUTHORITIES. PUMP OR VACUUM TRANSFER SPILLED PRODUCT TO CLEAN CONTAINERS FOR RECOVERY. ABSORB UNRECOVERABLE PRODUCT. TRANSFER CONTAMINATED ABSORBENT, SOIL AND OTHER MATERIALS TO CONTAINERS FOR DISPOSAL. DISPOSE OF PROPERLY IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

SECTION 7 HANDLING AND STORAGE

HANDLING:

EMPTY CONTAINERS RETAIN RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, SPARKS, FLAMES, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. MANY HOT ORGANIC CHEMICAL VAPORS OR MISTS ARE SUSCEPTIBLE TO SUDDEN SPONTANEOUS COMBUSTION WHEN MIXED WITH AIR. IGNITION MAY OCCUR AT TEMPERATURES BELOW THOSE PUBLISHED IN THE LITERATURE AS "AUTOIGNITION" OR IGNITION TEMPERATURES. IGNITION TEMPERATURES DECREASE WITH INCREASING VAPOR VOLUME AND VAPOR VOLUME AND VAPOR/AIR CONTACT TIME, AND ARE INFLUENCED BY PRESSURE CHANGES. IGNITION OF ORGANIC CHEMICAL VAPORS MAY OCCUR AT TYPICAL ELEVATED-TEMPERATURE PROCESS CONDITIONS, ESPECIALLY IN PROCESSES OPERATING UNDER VACUUM IF SUBJECTED TO SUDDEN INGRESS OF AIR, OR OUTSIDE PROCESS EQUIPMENT OPERATING UNDER ELEVATED PRESSURE IF SUDDEN ESCAPE OF VAPORS OR MISTS TO THE ATMOSPHERE OCCURS. ANY PROPOSED USE OF THIS PRODUCT IN ELEVATED-TEMPERATURE PROCESSES SHOULD BE THOROUGHLY EVALUATED TO ASSURE THAT SAFE OPERATING CONDITIONS ARE ESTABLISHED AND MAINTAINED.

STORAGE:

KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAMES. KEEP OUT OF REACH OF CHILDREN. KEEP CONTAINER TIGHTLY SEALED WHEN NOT IN USE. STORE IN COOL, WELL-VENTILATED PLACE AWAY FROM INCOMPATIBLE MATERIALS. INFORMATION ON THIS MATERIAL SAFETY DATA SHEETS REFERS TO INK USED IN PENS AND MARKERS, HOWEVER, IT APPLIES TO THESE INKS IN BULK. THE INKS ARE CONTAINED IN CAPILLARY OR VALVE RESERVOIRS AND WILL NOT SPILL OR LEAK UNDER NORMAL CONDITIONS.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE):

NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELs OR TLVs ARE EXCEEDED.

ENGINEERING CONTROLS:

LOCAL EXHAUST: NOT USUALLY NEEDED

MECHANICAL (GENERAL): YES

SPECIAL: NONE

OTHER: NONE

PROTECTIVE GLOVES:

CHEMICAL RESISTANT GLOVES IF SKIN CONTACT IS POSSIBLE (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER).

EYE PROTECTION:

NOT NORMALLY REQUIRED IF USED AS INTENDED.

WEAR CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATION IF SPLASHING IS POSSIBLE.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

NOT USUALLY NECESSARY. FOR BULK MATERIAL, IF DIRECT CONTACT IS POSSIBLE, WEAR APRON, BOOTS, FACE SHIELD, ETC. AS NEEDED.

WORK/HYGIENIC PRACTICES:

FOLLOW LABEL INSTRUCTIONS. WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, SMOKING, USING RESTROOMS, ETC.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 252 DEG. F

SPECIFIC GRAVITY (H₂O = 1) @70 F: >1

VAPOR PRESSURE (MM-Hg @ 70 DEG. F): NO DATA

MELTING POINT: NO DATA

VAPOR DENSITY (AIR = 1): GREATER THAN ONE (1)

EVAPORATION RATE (BUTYL ACETATE = 1): LESS THAN ONE (1)

SOLUBILITY IN WATER: SLIGHT

PH: NO DATA

APPEARANCE AND ODOR: OPAQUE THIN VISCOSITY LIQUID WITH SWEET ODOR.

VOCS:

FORMULA#/COLOR	GRAMS PER LITER	% BY WEIGHT
A720M BLACK	672	66.61
A786M BROWN	712	67.78
A789M GREEN	725	69.77
A787M PINK	637	48.62
A945M SILVER	714	71.68
A718M WHITE	627	47.85
A788M BLUE	624	68.83
A946M GOLD	689	59.75
A783M LIGHT BLUE	588	50.34
A790M ORANGE	647	65.48
A791M RED	671	66.17
A785M VIOLET	771	76.57
A719M YELLOW	716	68.20

SECTION 10 STABILITY AND REACTIVITY

CHEMICAL STABILITY:

UNSTABLE ()

STABLE (X)

CONDITIONS TO AVOID: NONE KNOWN.

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZING AND REDUCING AGENTS, STRONG ALKALIES AND STRONG ACIDS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.

HAZARDOUS POLYMERIZATION:

MAY OCCUR ()

WILL NOT OCCUR (X)

CONDITIONS TO AVOID: NO DATA

SECTION 11 TOXICOLOGICAL INFORMATION

ORAL LD50 (RAT)	DERMAL LD50 (RABBIT)	INHALATION LC50 (RAT)
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BUTYL ACETATE	NO DATA	NO DATA
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1-METHOXY-2-PROPANOL ACETATE	1300 MG/KG	NO DATA
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PLEASE REFER TO SECTION 3 FOR AVAILABLE INFORMATION ON POTENTIAL HEALTH EFFECTS.

SECTION 12 ECOLOGICAL INFORMATION

NO SPECIFIC ECOLOGICAL DATA ARE AVAILABLE FOR THIS PRODUCT. PLEASE REFER TO SECTION 6 FOR INFORMATION REGARDING ACCIDENTAL RELEASES AND SECTION 15 FOR REGULATORY REPORTING INFORMATION.

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION 14 TRANSPORT INFORMATION

(NOT MEANT TO BE ALL INCLUSIVE)

DOMESTIC HIGHWAY (CONTAINERS <2 QUART ARE OMD):

PROPER SHIPPING NAME: PAINT

HAZARD CLASS/SUBSIDIARY HAZARD: 3

UN/NA NO.: UN1263

PACKING GROUP: III

LABEL REQUIRED: FLAMMABLE LIQUID (3)

DOMESTIC AIR SHIPMENTS (PENS):

PROPER SHIPPING NAME: VARIES

HAZARD CLASS/SUBSIDIARY HAZARD: VARIES

UN/NA NO.: VARIES

PACKING GROUP: VARIES

LABEL REQUIRED: VARIES

SECTION 15 REGULATORY INFORMATION

(NOT MEANT TO BE ALL INCLUSIVE - SELECTED REGULATIONS REPRESENTED)

U.S. FEDERAL REGULATIONS:

CARCINOGENICITY:

NTP?: NO

IARC MONOGRAPHS?: 2B

OSHA REGULATED?: NO

OSHA:

HAZARDOUS BY DEFINITION OF HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

SECTION 313:

THIS PRODUCT DOES NOT CONTAIN TOXIC CHEMICALS THAT ARE LISTED AND MAY REQUIRE REPORTING UNDER SARA TITLE III (EPCRA) IF USED OVER THE ESTABLISHED REPORTING QUANTITY. THIS INFORMATION MUST BE INCLUDED IN ALL MODES THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS: B2, D2B, D2A

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:

WARNING:

THIS PRODUCT CONTAINS TRACE QUANTITIES OF LEAD, NICKEL, ARSENIC, CADMIUM AND TOLUENE, CHEMICALS KNOWN TO THE LIMIT OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

SECTION 16 OTHER INFORMATION

MSDS STATUS:

REVISED SECTION(S):

WARNING:

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER AND DISTRIBUTOR; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICES. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING DILIGENT OR INDEMNIFY, ARISING FROM THE USE OF SUCH, OR IN COMBINATION WITH OTHER MATERIALS, THE MANUFACTURER AND DISTRIBUTOR WARRANT ONLY THAT THIS PRODUCT MEETS THE SPECIFICATIONS FOR SUCH PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVITY, OR ANY OTHER MATTER OF THIS PRODUCT. THE MANUFACTURER AND DISTRIBUTOR SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SALE AND EXCHANGE IS EXPRESSLY WARRANTED BY MANUFACTURER AND DISTRIBUTOR FOR A PERIOD OF WARRANTY SHALL BE REFUNDEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL

BE AVAILABLE.

FORMULA: BRITE-MARK ALL COLORS

ITEM: 2GKU9 - Paint Marker Brite Mark(R) Blue

MSDS: D0693

ORDER: 0138992450

LP NUMBER: U859724308

MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

MATERIAL SAFETY DATA SHEET - D0693

Associated Grainger Items
2GKU9, 2GKT8, 2GKVL, 2GKT3

ITW DYKEM(R*)

MATERIAL SAFETY DATA SHEET

HMS (R*) :
HEALTH 2
FLAMMABILITY 3
REACTIVITY 0
PERSONAL PROTECTION B

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

IDENTITY: DYKEM/BRITE-MARK ALL COLORS

ITEM NO.:
BLACK(40003, 41003, 84002), BLUE(40001, 41001, 84001), BROWN(40007, 84010),
GOLD(40014, 41014, 84051), GREEN(40004, 41004, 77007, 84007), LIGHT
BLUE(84008), ORANGE(40010, 41010, 84005), PINK(40009, 84009), RED(40002,
41002, 84006), SILVER(40016, 41016, 84050), VIOLET(40045, 41045, 84019),
WHITE(40008, 41008, 84003), YELLOW(40006, 41006, 84004).

OTHER NAMES: 916, PM40, AND FINE LINE.

FORMULA:
A720M(BLACK), A788M(BLUE), A786M(BROWN), A946M(GOLD), A789M(GREEN),
A783M(LIGHT BLUE), A790M(ORANGE), A787M(PINK), A791M(RED), A945M(SILVER),
A785M(VIOLET), A718M(WHITE), A719M(YELLOW).

ANOTHER EXCLUSIVE PRODUCT OF: ITW DYKEM

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):
805 EAST OLD 56 HIGHWAY
OLATHE, KS 66061-4914

EMERGENCY TELEPHONE NUMBER:
1-800-535-5053 (DOMESTIC)
1-352-323-3500 (INTERNATIONAL)

TELEPHONE NUMBER FOR INFORMATION: 1-800-443-9536 OR 1-913-397-9889

DATE PREPARED: 9/21/12

PRODUCT CLASS: SOLVENT BASED MARKER.

SIGNATURE OF PREPARER (OPTIONAL): REGULATORY DEPT.

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY, COMMON NAME(S))	CAS NO.	% (OPT.)
BUTYL ACETATE	123-86-4	35 - 80
1-METHOXY-2-PROPANOL ACETATE	108-65-6	1 - 30
AROMATIC NAPHTHA, LIGHT	64742-95-6	1 - 10
MAY CONTAINS ONE OR MORE OF THE FOLLOWING...		
ALUMINUM FLAKE	7429-90-5	10 - 20
COPPER	7440-50-8	10 - 20
TITANIUM DIOXIDE	13463-67-7	1 - 40
DIARYLIDE YELLOW	5468-75-7	1 - 20
PHthalOCYANINE BLUE	MIXTURE	1 - 20
COPPER COMPOUNDS	147-14-8	1 - 10
ISOPROPYL ALCOHOL	67-63-0	1 - 10
CARBON BLACK	1333-86-4	1 - 10
C.I. PIGMENT VIOLET 1	1326-03-0	1 - 10
GREEN PIGMENT	1328-53-6	1 - 10
RED PIGMENT	5280-66-0	1 - 10
MANGANESE COMPOUNDS	7439-96-5	1 - 10
DISAZO ORANGE	15793-73-4	1 - 10

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY, COMMON NAME(S))	CSHA PEL	ACGIH-TLV	OTHER LIMITS RECOMMENDED
BUTYL ACETATE	TWA: 150 PPM	TWA: 150 PPM	NO DATA
1-METHOXY-2-PROPANOL ACETATE	NO DATA	NO DATA	NO DATA
AROMATIC NAPHTHA, LIGHT	TWA: 100 PPM	NO DATA	NO DATA
MAY CONTAINS ONE OR MORE OF THE FOLLOWING...			
ALUMINUM FLAKE	TWA: 15 MG/M3	TWA: 10 MG/M3	NUISANCE DUST*
COPPER	TWA: 1 MG/M3	TWA: 1 MG/M3	NUISANCE DUST*

TITANIUM DIOXIDE	TWA: 10 MG/M3	TWA: 10 MG/M3	NUISANCE DUST*
DIARYLIDE YELLOW	NO DATA	NO DATA	NUISANCE DUST*
PHthalOCYANINE BLUE	NO DATA	NO DATA	NUISANCE DUST*
COPPER COMPOUNDS	TWA: 0.1 MG/M3	TWA: 0.2 MG/M3	NUISANCE DUST*
ISOPROPYL ALCOHOL	TWA: 400 PPM	TWA: 400 PPM	NO DATA
CARBON BLACK	TWA: 3.5 MG/M3	TWA: 3.5 MG/M3	NUISANCE DUST*
C.I. PIGMENT VIOLET 1	NO DATA	NO DATA	NUISANCE DUST*
GREEN PIGMENT	NO DATA	NO DATA	NUISANCE DUST*
RED PIGMENT	NO DATA	NO DATA	NUISANCE DUST*
MANGANESE COMPOUNDS	TWA: 5 MG/M3	TWA: 0.2 MG/M3	NUISANCE DUST*
DISAZO ORANGE	NO DATA	NO DATA	NUISANCE DUST*

*NUISANCE DUST AS FREE DUST ONLY, NOT AS BOUND IN PAINT OR INK.

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING:

FLAMMABLE LIQUID AND VAPOR. KEEP AWAY FROM HEAT, SPARKS AND FLAMES. MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. IF SWALLOWED DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.

POTENTIAL HEALTH EFFECTS:

EYES: LIQUID IS MODERATELY IRRITATING TO THE EYES.

SKIN: LIQUID IS MILDLY IRRITATING TO THE SKIN.

INGESTION: INGESTION OF LIQUID MAY CAUSE VOMITING.

INHALATION:

HIGH CONCENTRATION OF VAPORS MAY PRODUCE IRRITATION OF THE RESPIRATORY TRACT, HEADACHE, DIZZINESS, AND NAUSEA.

CHRONIC HEALTH EFFECTS:

PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN SENSITIZATION OR DERMATITIS. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH IRREVERSIBLE BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING OR INHALING THIS PRODUCT MAY BE HARMFUL OR FATAL. IARC (INTERNATIONAL AGENCY FOR RESEARCH OF CANCER) HAS CLASSIFIED CARBON BLACK AND TITANIUM DIOXIDE AS A POSSIBLE HUMAN CARCINOGEN (2B).

SECTION 4 FIRST AID MEASURES

EYES:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION:

REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN:

FLUSH SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES.

INGESTION:

IF LARGE QUANTITIES OF THIS MATERIAL ARE SWALLOWED, GET IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED): 81 DEG. F (TCC)

FLAMMABLE LIMITS:

LEL: 1.7
UEL: 7.6

EXTINGUISHING MEDIA:

USE WATER FOG, FOAM, DRY CHEMICAL OR CO₂. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS AND TO PROTECT PERSONNEL.

SPECIAL FIRE FIGHTING PROCEDURES:

KEEP CONTAINERS COOL AND VAPORS DOWN WITH WATER SPRAY. PREVENT SPILL FROM ENTERING DRAINS, SEWERS, STREAMS OR OTHER BODIES OF WATER. IF RELEASE OCCURS, NOTIFY PROPER AUTHORITIES. DO NOT FIGHT CONFINED FIRE FROM WITHIN FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS), INCLUDING A POSITIVE PRESSURE NICHE APPROVED SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG GROUND, OR BE MOVED BY VENTILATION AND BE IGNITED BY IGNITION SOURCE.

SECTION 6 ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

ABSORB LIQUID WITH NON-COMBUSTIBLE FLOOR ABSORBENT AND PLACE IN NON-LEAKING CONTAINER; SEAL PROPERLY AND DISPOSE OF PROPERLY IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

LARGE SPILL:

EVACUATE AREA OF UNPROTECTED PERSONNEL. ELIMINATE ALL IGNITION SOURCES. STOP SPILL AT SOURCE IF SAFE TO DO SO. HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING. PREVENT SPILL FROM ENTERING DRAINS, SEWERS, STREAMS OR

OTHER BODIES OF WATER. IF RUN-OFF OCCURS, NOTIFY PROPER AUTHORITIES. PUMP OR VACUUM TRANSFER SPILLED PRODUCT TO CLEAN CONTAINERS FOR RECOVERY. ABSORB UNRECOVERABLE PRODUCT. TRANSFER CONTAMINATED ABSORBENT, SOIL AND OTHER MATERIALS TO CONTAINERS FOR DISPOSAL. DISPOSE OF PROPERLY IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

SECTION 7 HANDLING AND STORAGE

HANDLING:
EMPTY CONTAINERS RETAIN RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, SPARKS, FLAMES, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. MANY HOT ORGANIC CHEMICAL VAPORS OR MISTS ARE SUSCEPTIBLE TO SUDDEN SPONTANEOUS COMBUSTION WHEN MIXED WITH AIR. IGNITION MAY OCCUR AT TEMPERATURES BELOW THOSE PUBLISHED IN THE LITERATURE AS "AUTOIGNITION" OR IGNITION TEMPERATURES. IGNITION TEMPERATURES DECREASE WITH INCREASING VAPOR VOLUME AND VAPOR VOLUME AND VAPOR/AIR CONTACT TIME, AND ARE INFLUENCED BY PRESSURE CHANGES. IGNITION OF ORGANIC CHEMICAL VAPORS MAY OCCUR AT TYPICAL ELEVATED-TEMPERATURE PROCESS CONDITIONS, ESPECIALLY IN PROCESSES OPERATING UNDER VACUUM IF SUBJECTED TO SUDDEN INGRESS OF AIR, OR OUTSIDE PROCESS EQUIPMENT OPERATING UNDER ELEVATED PRESSURE IF SUDDEN ESCAPE OF VAPORS OR MISTS TO THE ATMOSPHERE OCCURS. ANY PROPOSED USE OF THIS PRODUCT IN ELEVATED-TEMPERATURE PROCESSES SHOULD BE THOROUGHLY EVALUATED TO ASSURE THAT SAFE OPERATING CONDITIONS ARE ESTABLISHED AND MAINTAINED.

STORAGE:
KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAMES. KEEP OUT OF REACH OF CHILDREN. KEEP CONTAINER TIGHTLY SEALED WHEN NOT IN USE. STORE IN COOL, WELL-VENTILATED PLACE AWAY FROM INCOMPATIBLE MATERIALS. INFORMATION ON THIS MATERIAL SAFETY DATA SHEETS REFERS TO INK USED IN PENS AND MARKERS, HOWEVER, IT APPLIES TO THESE INKS IN BULK. THE INKS ARE CONTAINED IN CAPILLARY OR VALVE RESERVOIRS AND WILL NOT SPILL OR LEAK UNDER NORMAL CONDITIONS.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE):
NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELS OR TLVS ARE EXCEEDED.

ENGINEERING CONTROLS:
LOCAL EXHAUST: NOT USUALLY NEEDED
MECHANICAL (GENERAL): YES
SPECIAL: NONE
OTHER: NONE

PROTECTIVE GLOVES:
CHEMICAL RESISTANT GLOVES IF SKIN CONTACT IS POSSIBLE (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER).

EYE PROTECTION:
NOT NORMALLY REQUIRED IF USED AS INTENDED.
WEAR CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATION IF SPLASHING IS POSSIBLE.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
NOT USUALLY NECESSARY. FOR BULK MATERIAL, IF DIRECT CONTACT IS POSSIBLE, WEAR APRON, BOOTS, FACE SHIELD, ETC. AS NEEDED.

WORK/HYGIENIC PRACTICES:
FOLLOW LABEL INSTRUCTIONS. WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, SMOKING, USING RESTROOMS, ETC.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 252 DEG. F

SPECIFIC GRAVITY (H₂O = 1) @70 F: >1

VAPOR PRESSURE (MM-Hg @ 70 DEG. F): NO DATA

MELTING POINT: NO DATA

VAPOR DENSITY (AIR = 1): GREATER THAN ONE (1)

EVAPORATION RATE (BUTYL ACETATE = 1): LESS THAN ONE (1)

SOLUBILITY IN WATER: SLIGHT

PH: NO DATA

APPEARANCE AND ODOR: OPAQUE THIN VISCOSITY LIQUID WITH SWEET ODOR.

VOCS:

FORMULA#/COLOR	GRAMS PER LITER	% BY WEIGHT
A720M BLACK	672	65.61
A786M BROWN	712	67.78
A789M GREEN	725	69.77
A787M PINK	637	43.62
A945M SILVER	714	71.68
A718M WHITE	627	47.85
A788M BLUE	694	68.83
A946M GOLD	689	59.75
A783M LIGHT BLUE	588	50.34
A790M ORANGE	647	65.48
A791M RED	671	66.17
A785M VIOLET	771	76.57
A719M YELLOW	716	68.20

SECTION 10 STABILITY AND REACTIVITY

CHEMICAL STABILITY:
UNSTABLE ()

STABLE (X)

CONDITIONS TO AVOID: NONE KNOWN.

INCOMPATIBILITY (MATERIALS TO AVOID):
STRONG OXIDIZING AND REDUCING AGENTS, STRONG ALKALIES AND STRONG ACIDS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.

HAZARDOUS POLYMERIZATION:
MAY OCCUR ()
WILL NOT OCCUR (X)

CONDITIONS TO AVOID: NO DATA

SECTION 11 TOXICOLOGICAL INFORMATION

	ORAL LD50 (RAT)	DERMAL LD50 (RABBIT)	INHALATION LC50 (RAT)
BUTYL ACETATE	NO DATA	NO DATA	NO DATA
1-METHOXY-2-PROPANOL ACETATE	>1000 MG/KG	NO DATA	NO DATA

PLEASE REFER TO SECTION 3 FOR AVAILABLE INFORMATION ON POTENTIAL HEALTH EFFECTS.

SECTION 12 ECOLOGICAL INFORMATION

NO SPECIFIC ECOLOGICAL DATA ARE AVAILABLE FOR THIS PRODUCT. PLEASE REFER TO SECTION 6 FOR INFORMATION REGARDING ACCIDENTAL RELEASES AND SECTION 15 FOR REGULATORY REPORTING INFORMATION.

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION 14 TRANSPORT INFORMATION

(NOT MEANT TO BE ALL INCLUSIVE)

DOMESTIC HIGHWAY (CONTAINERS < 3 QUART ARE (44-D):
PROPER SHIPPING NAME: PAINT
HAZARD CLASS/SUBSIDIARY HAZARD: 3
UN/NA NO.: UN1263
PACKING GROUP: III
LABEL REQUIRED: FLAMMABLE LIQUID (3)

DOMESTIC AIR SHIPMENTS (PENS):
PROPER SHIPPING NAME: VARIES
HAZARD CLASS/SUBSIDIARY HAZARD: VARIES
UN/NA NO.: VARIES
PACKING GROUP: VARIES
LABEL REQUIRED: VARIES

SECTION 15 REGULATORY INFORMATION

(NOT MEANT TO BE ALL INCLUSIVE - SELECTED REGULATIONS REPRESENTED)

U.S. FEDERAL REGULATIONS:

CARCINOGENICITY:
NTP?: NO
IARC MONOGRAPHS?: 2B
OSHA REGULATED?: NO

OSHA:
HAZARDOUS BY DEFINITION OF HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

SECTION 313:
THIS PRODUCT DOES NOT CONTAIN TOXIC CHEMICALS THAT ARE LISTED AND MAY REQUIRE REPORTING UNDER SECTION 313 IF USED OVER THE THRESHOLD REPORTING QUANTITY. THIS INFORMATION MUST BE INCLUDED IN ALL LABELS THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

INTERNATIONAL REGULATIONS:
CANADIAN WHMIS: B2, D2B, D2A

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:

WARNING:
THIS PRODUCT CONTAINS TRACE QUANTITIES OF LEAD, NICKEL, ARSENIC, CADMIUM AND TOLUENE, CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

SECTION 16 OTHER INFORMATION

MSDS STATUS:
REVISED SECTION(S):

WARNING!

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER AND DISTRIBUTOR; THEREFORE, NO GUARANTEE, REPRESENTED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULT TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM THE MISTAKE AS SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER AND DISTRIBUTOR WARRANT ONLY THAT THE PRODUCT MEETS THE SPECIFICATIONS FOR SUCH PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER OF THIS PRODUCT. THE MANUFACTURER AND DISTRIBUTOR SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER AND DISTRIBUTOR FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL

BE AVAILABLE.

FORMULA: BRITE-MARK ALL COLORS

MSDS: B9331

ITEM: 2GKV5 - Paint Marker Brite Mark(R) White

ORDER: 0138992450

LP NUMBER: U859724308

MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

MATERIAL SAFETY DATA SHEET - B9331

Associated Grainger Items
2GKV5, 2GKV5

ITW DYKEM(R*)

MATERIAL SAFETY DATA SHEET

HMS (R*):
HEALTH 2
FLAMMABILITY 3
REACTIVITY 0
PERSONAL PROTECTION B

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

IDENTITY: BRITE-MARK WHITE
ITEM NO.: 40008, 41008, 84003
OTHER NAMES: 916, PM40, AND FINE LINE
FORMULA: A718M

NOTE:
BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

ANOTHER EXCLUSIVE PRODUCT OF: ITW DYKEM

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):
805 EAST OLD 56 HIGHWAY
OLATHE, KS 66061-4914

EMERGENCY TELEPHONE NUMBER:
1-800-535-5053 (DOMESTIC)
1-352-323-3500 (INTERNATIONAL)

TELEPHONE NUMBER FOR INFORMATION: 1-800-443-9536 OR 1-913-397-9889

PRODUCT CLASS: SOLVENT BASED MARKER.

DATE PREPARED: 5/05/10

SIGNATURE OF PREPARER (OPTIONAL): REGULATORY DEPT.

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Table with 5 columns: HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY, COMMON NAME(S)), CAS NO., OSHA PEL, ACGIH-TLV, OTHER LIMITS % (OPT.) RECOMMENDED. Rows include BUTYL ACETATE, TITANIUM DIOXIDE, 1-METHOXY-2-PROPANOL ACETATE, and AROMATIC NAPHTHA, LIGHT.

*NUISANCE DUST AS FREE DUST ONLY, NOT AS BOUND IN PAINT OR INK.

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WHITE OPAQUE THIN VISCOSITY LIQUID WITH SWEET ODOR.

WARNING!

FLAMMABLE LIQUID AND VAPOR. KEEP AWAY FROM HEAT SPARKS AND FLAMES. MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. IF SWALLOWED DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.

POTENTIAL HEALTH EFFECTS:

EYES: LIQUID IS MODERATELY IRRITATING TO THE EYES.

SKIN: LIQUID IS MILDLY IRRITATING TO THE SKIN.

INGESTION: INGESTION OF LIQUID MAY CAUSE VOMITING.

INHALATION:
HIGH CONCENTRATION OF VAPORS MAY PRODUCE IRRITATION OF THE RESPIRATORY TRACT, HEADACHE, DIZZINESS, AND NAUSEA.

CHRONIC HEALTH EFFECTS:
PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN SENSITIZATION OR DERMATITIS. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH IRREVERSIBLE BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING OR INHALING THIS PRODUCT MAY BE HARMFUL OR FATAL. IARC (INTERNATIONAL AGENCY FOR RESEARCH OF CANCER) HAS CLASSIFIED TITANIUM DIOXIDE AS A POSSIBLE HUMAN CARCINOGEN (2B).

SECTION 4 FIRST AID MEASURES

EYES:
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION:
REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION IMMEDIATELY.
SKIN: FLUSH SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES.
INGESTION:
IF LARGE QUANTITIES OF THIS MATERIAL ARE SWALLOWED, GET IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED): 81 DEG. F
FLAMMABLE LIMITS:
LEL: 1.7
UEL: 7.6
EXTINGUISHING MEDIA:
USE WATER FOG, FOAM, DRY CHEMICAL OR CO2. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS AND TO PROTECT PERSONNEL.
SPECIAL FIRE FIGHTING PROCEDURES:
KEEP CONTAINERS COOL AND VAPORS DOWN WITH WATER SPRAY. PREVENT SPILL FROM ENTERING DRAINS, SEWERS, STREAMS OR OTHER BODIES OF WATER. IF RUN OFF OCCURS, NOTIFY PROPER AUTHORITIES. DO NOT ENTER CONTAINED FIRE SPACES WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNDEE COATS, GLOVES AND RUBBER BOOTS); INCLUDING A POSITIVE PRESSURE NICHE APPROVED SELF-CONTAINED BREATHING APPARATUS.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG GROUND, OR BE MOVED BY VENTILATION AND BE IGNITED BY IGNITION SOURCE.

SECTION 6 ACCIDENTAL RELEASE MEASURES

SMALL SPILL:
ABSORB LIQUID WITH NON-COMBUSTIBLE FLOOR ABSORBENT AND PLACE IN NON-LEAKING CONTAINER; SEAL PROPERLY AND DISPOSE OF PROPERLY IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
LARGE SPILL:
EVACUATE AREA OF UNPROTECTED PERSONNEL. ELIMINATE ALL IGNITION SOURCES. STOP SPILL AT SOURCE IF SAFE TO DO SO. HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING. PREVENT SPILL FROM ENTERING DRAINS, SEWERS, STREAMS OR OTHER BODIES OF WATER. IF RUN-OFF OCCURS, NOTIFY PROPER AUTHORITIES. PUMP OR VACUUM TRANSFER SPILLED PRODUCT TO CLEAN CONTAINERS OR RECOVERY. AVOID UNRECOVERABLE PRODUCT. TRANSFER CONTAMINATED ABSORBENT, SOIL AND OTHER MATERIALS TO CONTAINERS FOR DISPOSAL. DISPOSE OF PROPERLY IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

SECTION 7 HANDLING AND STORAGE

HANDLING:
EMPTY CONTAINERS RETAIN RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE REWORKED. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR REPAIR SUCH CONTAINERS TO HEAT, SPARKS, FLAMES, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. MANY HOT ORGANIC CHEMICAL VAPORS OR MISTS ARE SENSITIVE TO SUDDEN SPONTANEOUS COMBUSTION WHEN MIXED WITH AIR. IGNITION MAY OCCUR AT TEMPERATURES BELOW THOSE PUBLISHED IN THE LITERATURE AS "AUTOIGNITION" OR IGNITION TEMPERATURES. IGNITION TEMPERATURES DECREASE WITH INCREASING VAPOR VOLUME AND VAPOR VOLUME AND VAPOR/AIR CONTACT TIME, AND ARE INFLUENCED BY PRESSURE CHANGES. IGNITION OF ORGANIC CHEMICAL VAPOR MAY OCCUR AT ELEVATED-TEMPERATURE PROCESS CONDITIONS, ESPECIALLY IN PROCESSES OPERATING UNDER VACUUM IF SUBJECTED TO SUDDEN INFLUX OF AIR, OR OUTSIDE PROCESS EQUIPMENT OPERATING UNDER ELEVATED PRESSURE IF SUDDEN ESCAPE OF VAPORS OR MISTS TO THE ATMOSPHERE OCCURS. ANY PROPOSED USE OF THIS PRODUCT IN ELEVATED-TEMPERATURE PROCESSES SHOULD BE THOROUGHLY EVALUATED TO ASSURE THAT SAFE OPERATING CONDITIONS ARE ESTABLISHED AND MAINTAINED.

STORAGE:
KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAMES. KEEP OUT OF REACH OF CHILDREN. KEEP CONTAINER TIGHTLY SEALED WHEN NOT IN USE. STORE IN A WELL-VENTILATED PLACE AWAY FROM INCOMPATIBLE MATERIALS. INFORMATION ON THIS MATERIAL SAFETY DATA SHEETS REFERS TO INK USED IN PENS AND MARKERS; HOWEVER, IT APPLIES TO THESE INKS IN BULK. THE INKS ARE CONTAINED IN CAPILLARY OR VALVE RESERVOIRS AND WILL NOT SPILL OR LEAK UNDER NORMAL CONDITIONS.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE):
NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELS OR TAGS ARE EXCEEDED.
ENGINEERING CONTROLS:
LOCAL EXHAUST: NOT USUALLY NEEDED
MECHANICAL (GENERAL): YES
SPECIAL: NONE
OTHER: NONE

PROTECTIVE GLOVES:
CHEMICAL RESISTANT GLOVES IF SKIN CONTACT IS POSSIBLE (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER).

EYE PROTECTION:
NOT NORMALLY REQUIRED IF USED AS INTENDED. WEAR CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATION IF SPLASHING IS POSSIBLE.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
NOT USUALLY NECESSARY. FOR BULK MATERIAL, IF DIRECT CONTACT IS POSSIBLE, WEAR APRON, BOOTS, FACE SHIELD, ETC. AS NEEDED.

WORK/HYGIENIC PRACTICES:
FOLLOW LABEL INSTRUCTIONS. WASH HANDS AFTER USE AND BEFORE EATING, DRINKING,

SMOKING, USING RESTROOMS, ETC.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 252 DEG. F
VAPOR PRESSURE (MM-Hg @ 70 DEG. F): NO DATA
VAPOR DENSITY (AIR = 1): GREATER THAN ONE (1)
SOLUBILITY IN WATER: SLIGHT
SPECIFIC GRAVITY (H2O = 1) @ 70 DEG. F: >1
MELTING POINT: NO DATA
EVAPORATION RATE (BUTYL ACETATE = 1): LESS THAN ONE (1)
pH: NO DATA
APPEARANCE AND ODOR: WHITE OPAQUE THIN VISCOSITY LIQUID WITH SWEET ODOR.
VOC: THIS PRODUCT CONTAINS 622 GRAMS PER LITER OR 47.5% BY WEIGHT VOC'S.

SECTION 10 STABILITY AND REACTIVITY

CHEMICAL STABILITY:
UNSTABLE ()
STABLE (X)
CONDITIONS TO AVOID: NONE KNOWN.
INCOMPATIBILITY (MATERIALS TO AVOID):
STRONG OXIDIZING AND REDUCING AGENTS, STRONG ALKALIES AND STRONG ACIDS.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.
HAZARDOUS POLYMERIZATION:
MAY OCCUR ()
WILL NOT OCCUR (X)
CONDITIONS TO AVOID: NO DATA

SECTION 11 TOXICOLOGICAL INFORMATION

	ORAL LD50 (RAT)	DERMAL LD50 (RABBIT)	INHALATION LC50 (RAT)
BUTYL ACETATE	NO DATA	NO DATA	NO DATA
1-METHOXY-2-PROPANOL ACETATE	>1000 MG/KG	NO DATA	NO DATA

PLEASE REFER TO SECTION 3 FOR AVAILABLE INFORMATION ON POTENTIAL HEALTH EFFECTS.

SECTION 12 ECOLOGICAL INFORMATION

NO SPECIFIC ECOLOGICAL DATA ARE AVAILABLE FOR THIS PRODUCT. PLEASE REFER TO SECTION 6 FOR INFORMATION REGARDING ACCIDENTAL RELEASES AND SECTION 15 FOR REGULATORY REPORTING INFORMATION.

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION 14 TRANSPORT INFORMATION

(NOT MEANT TO BE ALL INCLUSIVE)

DOMESTIC HIGHWAY (CONTAINERS <1 QUART ARE ORM-D):
PROPER SHIPPING NAME: PAINT
HAZARD CLASS/SUBSIDIARY HAZARD: 3
UN/NA NO.: UN1263
PACKING GROUP: III
LABEL REQUIRED: FLAMMABLE LIQUID (3)

DOMESTIC AIR SHIPMENTS (PENS):
PROPER SHIPPING NAME: VARIES
HAZARD CLASS/SUBSIDIARY HAZARD: VARIES
UN/NA NO.: VARIES
PACKING GROUP: VARIES
LABEL REQUIRED: VARIES

SECTION 15 REGULATORY INFORMATION

(NOT MEANT TO BE ALL INCLUSIVE - SELECTED REGULATIONS REPRESENTED)

U.S. FEDERAL REGULATIONS:

CARCINOGENICITY:
NTP?: NO
IARC MONOGRAPHS?: 2B
OSHA REGULATED?: NO

CSHA:
HAZARDOUS BY DEFINITION OF HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

SECTION 313:
THIS PRODUCT DOES NOT CONTAIN TOXIC CHEMICALS THAT ARE LISTED AND MAY REQUIRE REPORTING UNDER SARA TITLE III SEC. 313 IF USED OVER THE THRESHOLD REPORTING QUANTITY. THIS INFORMATION MUST BE INCLUDED IN ALL MSDS THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

INTERNATIONAL REGULATIONS:
CANADIAN WHMIS: B2, D2B, D2A

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:

WARNING:
THIS PRODUCT CONTAINS TRACE QUANTITIES OF ANTIMONY, CHROMIUM AND LEAD, CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

SECTION 16 OTHER INFORMATION

MSDS STATUS:

REVISED SECTION(S):
5/1/07 UPDATED SECTION 2.
UPDATED SECTION 3.
UPDATED SECTION 5.
UPDATED SECTION 9.
UPDATED SECTION 11.
UPDATED SECTION 14.
UPDATED SECTION 15.
UPDATED W/CURRENT DATE 5/05/10.

WARNING:

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER AND DISTRIBUTOR; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM USES OTHER THAN SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER AND DISTRIBUTOR WARRANT ONLY THAT THIS PRODUCT MEETS THE SPECIFICATIONS FOR SUCH

PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER OF THIS PRODUCT. THE MANUFACTURER AND DISTRIBUTOR SHALL BE IN NO WAY RESPONSIBLE FOR THE MEMBER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER AND DISTRIBUTOR FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

MSDS: B9333

ITEM: 2GKV3 - Paint Marker Brite Mark(R) Green

ORDER: 0138992450

LP NUMBER: U859724308

MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

MATERIAL SAFETY DATA SHEET - B9333

Associated Grainger Items
2GKT9, 2GKV3

ITW DYKEM(R*)

MATERIAL SAFETY DATA SHEET

HMIS(R*):
HEALTH 2
FLAMMABILITY 3
REACTIVITY 0
PERSONAL PROTECTION B

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

IDENTITY: BRITE-MARK GREEN
ITEM NO.: 40004, 41004, 84007
OTHER NAMES: 916, PM40, AND FINE LINE
FORMULA: A789M

NOTE:
BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

ANOTHER EXCLUSIVE PRODUCT OF: ITW DYKEM

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):
805 EAST OLD 56 HIGHWAY
OLATHE, KS 66061-4914

EMERGENCY TELEPHONE NUMBER:
1-800-535-5053 (DOMESTIC)
1-352-323-3500 (INTERNATIONAL)

TELEPHONE NUMBER FOR INFORMATION:
1-800-443-9536 OR
1-913-397-9889

PRODUCT CLASS: SOLVENT BASED MARKER.

DATE PREPARED: 5/05/10

SIGNATURE OF PREPARER (OPTIONAL): REGULATORY DEPT.

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Table with 6 columns: HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY, COMMON NAME(S)), CAS NO., OSHA PEL, ACGIH-TLV, OTHER LIMITS RECOMMENDED, % (OPT.)

*NUISANCE DUST AS FREE DUST ONLY, NOT AS BOUND IN PAINT OR INK.

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: GREEN OPAQUE THIN VISCOSITY LIQUID WITH SWEET ODOR.

WARNING!

FLAMMABLE LIQUID AND VAPOR. KEEP AWAY FROM HEAT SPARKS AND FLAMES. MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. IF SWALLOWED DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.

POTENTIAL HEALTH EFFECTS:

EYES: LIQUID IS MODERATELY IRRITATING TO THE EYES.

SKIN: LIQUID IS MILDLY IRRITATING TO THE SKIN.

INGESTION: INGESTION OF LIQUID MAY CAUSE VOMITING.

INHALATION:
HIGH CONCENTRATION OF VAPORS MAY PRODUCE IRRITATION OF THE RESPIRATORY TRACT, HEADACHE, DIZZINESS, AND NAUSEA.

CHRONIC HEALTH EFFECTS:
PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN SENSITIZATION OR DERMATITIS. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH IRREVERSIBLE BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING OR INHALING THIS PRODUCT MAY BE HARMFUL OR FATAL. IARC (INTERNATIONAL AGENCY FOR RESEARCH OF CANCER) HAS CLASSIFIED TITANIUM DIOXIDE AS A POSSIBLE HUMAN CARCINOGEN (2B).

SECTION 4 FIRST AID MEASURES

EYES:
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET

MEDICAL ATTENTION IMMEDIATELY.

INHALATION:
REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN: FLUSH SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES.

INGESTION:
IF LARGE QUANTITIES OF THIS MATERIAL ARE SWALLOWED, GET IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED): 81 DEG. F

FLAMMABLE LIMITS:

LEL: 1.7
UEL: 7.6

EXTINGUISHING MEDIA:
USE WATER FOG, FOAM, DRY CHEMICAL OR CO2. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS AND TO PROTECT PERSONNEL.

SPECIAL FIRE FIGHTING PROCEDURES:
KEEP CONTAINERS COOL AND VAPORS DOWN WITH WATER SPRAY. PREVENT SPILL FROM ENTERING DRAINS, SEWERS, STREAMS OR OTHER BODIES OF WATER. IF RUN OFF OCCURS, NOTIFY PROPER AUTHORITIES. DO NOT ENTER CONTAINED FIRE SPACES WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, GLOVES, BOOTS, AND (GAS MASK) INCLUDING A POSITIVE PRESSURE MESH APPROVED SELF CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARD:
VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG GROUND, OR BE MOVED BY VENTILATION AND BE IGNITED BY IGNITION SOURCES.

SECTION 6 ACCIDENTAL RELEASE MEASURES

SMALL SPILL:
ABSORB LIQUID WITH NON-COMBUSTIBLE FLOOR ABSORBENT AND PLACE IN NON LEAKING CONTAINER; SEAL PROPERLY AND DISPOSE OF PROPERLY IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

LARGE SPILL:
EVACUATE AREA OF UNPROTECTED PERSONNEL. ELIMINATE ALL IGNITION SOURCES. STOP SPILL AT SOURCE IF SAFE TO DO SO. HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING. PREVENT SPILL FROM ENTERING DRAINS, SEWERS, STREAMS OR OTHER BODIES OF WATER. IF RUN-OFF OCCURS, NOTIFY PROPER AUTHORITIES. RAMP OR VACUUM TRANSFER SPILLED PRODUCT TO CLEAN CONTAINERS FOR RECOVERY. ABSORB UNRECOVERABLE PRODUCT. TRANSFER CONTAMINATED ABSORBENT, SOIL AND OTHER MATERIALS TO CONTAINERS FOR DISPOSAL. DISPOSE OF PROPERLY IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

SECTION 7 HANDLING AND STORAGE

HANDLING:
EMPTY CONTAINERS RETAIN RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, SPARKS, FLAMES, STATIC ELECTRICITY, OR OTHER SOURCE OF IGNITION. MANY HOT ORGANIC CHEMICAL MIXTURES OF MIXTURES ARE SUSCEPTIBLE TO SUDDEN SPONTANEOUS COMBUSTION WHEN MIXED WITH AIR. IGNITION MAY OCCUR AT TEMPERATURES BELOW THOSE PUBLISHED IN THE LITERATURE AS "AUTOIGNITION" OR IGNITION TEMPERATURES. IGNITION TEMPERATURE CONTACT TIME, AND ARE INFLUENCED BY VOLUME AND VAPOR VOLUME AND VAPOR/AIR RATIO. PRESSURE CHANGES IN PRESSURE CHANGES. IGNITION OF ORGANIC CHEMICAL VAPOR MAY OCCUR AT ELEVATED-TEMPERATURE PROCESS CONDITIONS, ESPECIALLY IN PROCESSES OPERATING UNDER VACUUM IF SUBJECTED TO SUDDEN INFLUX OF AIR, OR OUTSIDE PROCESS EQUIPMENT OPERATING UNDER ELEVATED PRESSURE IF SUDDEN ESCAPE OF VAPOR OR MISTS TO THE ATMOSPHERE OCCURS. ANY PROPOSED USE OF THIS PRODUCT IN ELEVATED-TEMPERATURE PROCESSES SHOULD BE THOROUGHLY EVALUATED TO ASSURE THAT SAFE OPERATING CONDITIONS ARE ESTABLISHED AND MAINTAINED.

STORAGE:
KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAMES. KEEP OUT OF REACH OF CHILDREN. KEEP CONTAINER TIGHTLY SEALED WHEN NOT IN USE. STORE IN COOL, WELL-VENTILATED PLACE AWAY FROM COMBUSTIBLE MATERIALS. INFORMATION ON THIS MATERIAL SAFETY DATA SHEET REFERS TO LIQUID USED IN PENS AND MARKERS; HOWEVER, IT APPLIES TO THESE INKS IN BULK. THE INKS ARE CONTAINED IN CAPILLARY OR VALVE RESERVOIRS AND WILL NOT SPILL OR LEAK UNDER NORMAL CONDITIONS.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE):
NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELS OR TELS ARE EXCEEDED.

ENGINEERING CONTROLS:
LOCAL EXHAUST: NOT USUALLY NEEDED
MECHANICAL (GENERAL): YES
SPECIAL: NONE
OTHER: NONE

PROTECTIVE GLOVES:
CHEMICAL RESISTANT GLOVES IF SKIN CONTACT IS POSSIBLE. CONSULT YOUR SAFETY EQUIPMENT SUPPLIER.

EYE PROTECTION:
NOT NORMALLY REQUIRED IF USED AS INTENDED. WEAR CHEMICAL RESISTANT GOGGLES IN COMPLIANCE WITH OSHA REGULATION IF SPLASHING IS POSSIBLE.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
NOT USUALLY NECESSARY. FOR BULK MATERIAL, IF DIRECT CONTACT IS POSSIBLE, WEAR APRON, BOOTS, FACE SHIELD, ETC. AS NEEDED.

WORK/HYGIENIC PRACTICES:

FOLLOW LABEL INSTRUCTIONS. WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, SMOKING, USING RESTROOMS, ETC.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 252 DEG. F
VAPOR PRESSURE (MM-Hg @ 70 DEG. F): NO DATA
VAPOR DENSITY (AIR = 1): GREATER THAN ONE (1)
SOLUBILITY IN WATER: SLIGHT
SPECIFIC GRAVITY (H2O = 1) @ 70 DEG. F: 1
MELTING POINT: NO DATA
EVAPORATION RATE (BUTYL ACETATE = 1): LESS THAN ONE (1)
pH: NO DATA
APPEARANCE AND ODOR: GREEN OPAQUE THIN VISCOSITY LIQUID WITH SWEET ODOR.
VOC: THIS PRODUCT CONTAINS 725 GRAMS PER LITER OR 69.77% BY WEIGHT VOC'S.

SECTION 10 STABILITY AND REACTIVITY

CHEMICAL STABILITY:
UNSTABLE ()
STABLE (X)
CONDITIONS TO AVOID: NONE KNOWN.
INCOMPATIBILITY (MATERIALS TO AVOID):
STRONG OXIDIZING AND REDUCING AGENTS, STRONG ALKALIES AND STRONG ACIDS.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
CARBON DIOXIDE, CARBON MONOXIDE, SMOKE, SOOT AND VARIOUS ORGANIC OXIDATION BY-PRODUCTS.
HAZARDOUS POLYMERIZATION:
MAY OCCUR ()
WILL NOT OCCUR (X)
CONDITIONS TO AVOID: NO DATA

SECTION 11 TOXICOLOGICAL INFORMATION

	ORAL LD50 (RAT)	DERMAL LD50 (RABBIT)	INHALATION LC50 (RAT)
BUTYL ACETATE	NO DATA	NO DATA	NO DATA
1-METHOXY-2- PROPANOL ACETATE	>1000 MG/KG	NO DATA	NO DATA

PLEASE REFER TO SECTION 3 FOR AVAILABLE INFORMATION ON POTENTIAL HEALTH EFFECTS.

SECTION 12 ECOLOGICAL INFORMATION

NO SPECIFIC ECOLOGICAL DATA ARE AVAILABLE FOR THIS PRODUCT. PLEASE REFER TO SECTION 6 FOR INFORMATION REGARDING ACCIDENTAL RELEASES AND SECTION 15 FOR REGULATORY REPORTING INFORMATION.

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION 14 TRANSPORT INFORMATION

(NOT MEANT TO BE ALL INCLUSIVE)

DOMESTIC HIGHWAY (CONTAINERS <1 QUART ARE ORM-D):
PROPER SHIPPING NAME: PAINT
HAZARD CLASS/SUBSIDIARY HAZARD: 3
UN/NA NO.: UN1263
PACKING GROUP: III
LABEL REQUIRED: FLAMMABLE LIQUID (3)

DOMESTIC AIR SHIPMENTS (PENS):
PROPER SHIPPING NAME: VARIES
HAZARD CLASS/SUBSIDIARY HAZARD: VARIES
UN/NA NO.: VARIES
PACKING GROUP: VARIES
LABEL REQUIRED: VARIES

SECTION 15 REGULATORY INFORMATION

(NOT MEANT TO BE ALL INCLUSIVE - SELECTED REGULATIONS REPRESENTED)

U.S. FEDERAL REGULATIONS:

CARCINOGENICITY:
NTP?: NO
IARC MONOGRAPHS?: 2B
OSHA REGULATED?: NO

CGHA:
HAZARDOUS BY DEFINITION OF HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

SECTION 313:
THIS PRODUCT DOES NOT CONTAIN TOXIC CHEMICALS THAT ARE LISTED AND MAY REQUIRE REPORTING UNDER SARA TITLE III SEC. 313 IF USED OVER THE THRESHOLD REPORTING QUANTITY. THIS INFORMATION MUST BE INCLUDED IN ALL MSDS THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

INTERNATIONAL REGULATIONS:
CANADIAN WHMIS: B2, D2B, D2A

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:

WARNING:
THIS PRODUCT CONTAINS TRACE QUANTITIES OF LEAD, NICKEL, ARSENIC, CHROMIUM AND TOLUENE, CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

SECTION 16 OTHER INFORMATION

MSDS STATUS:

REVISED SECTION(S):
5/1/07 UPDATED SECTION 2.
UPDATED SECTION 3.
UPDATED SECTION 5.
UPDATED SECTION 9.
UPDATED SECTION 11.
UPDATED SECTION 14.
UPDATED SECTION 15.
UPDATED W/CURRENT DATE 5/05/10.

WARNING:

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER AND DISTRIBUTOR; THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM THE MISHANDLING OF SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER AND DISTRIBUTOR WARRANT ONLY THAT THIS PRODUCT MEETS THE SPECIFICATIONS FOR SUCH

PRODUCT, THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER OF THIS PRODUCT. THE

MANUFACTURER AND DISTRIBUTOR SHALL BE IN NO WAY RESPONSIBLE FOR THE UNDESIRABLE USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER AND DISTRIBUTOR FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.