



SAFETY DATA SHEET

Product: MARC 80 H.D. ZONE MARKING PAINT (WHITE)
Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: MARC 80 H. D. ZONE MARKING PAINT (WHITE)

SDS DATE: 03/23/2021

SUPPLIER: Mid-American Research Chemical Corp.
PHONE: 402-564-7104 FAX: 402-563-1290
EMERGENCY PHONE: InfoTrac 1-800-535-5053
E-MAIL: marc1@marc1.com WEBSITE: www.marc1.com

ADDRESS: P. O. Box 927 • Columbus, NE 68602-0927

RECOMMENDED USE: Boundary and zone paint for striping and lane marking on asphalt or concrete, parking lots, curbs, etc.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Flammable liquid 2 Flash point < 23°C and initial boiling point > 35°C (95°F). Skin sensitizer 1. Mutagen 1B Known to produce heritable mutations in human germ cells. Subcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity. Carcinogen 1A Known Human Carcinogen Based on human evidence.



Reproductive toxin 2 Human or animal evidence possibly with other information. Aspiration hazard 1. Aspiration Toxicity Category 1: Known (regarded)- human evidence - hydrocarbons with kinematic viscosity 20.5 mm²/s at 40° C. **Signal Word: Danger.**

GHS Hazards- H225 Highly flammable liquid and vapor. H304 May be fatal if swallowed and enters airways. H317 May cause an allergic skin reaction. H340 May cause genetic defects. H350 May cause cancer. H360 May damage fertility or the unborn child. **GHS Precautions-**P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/light/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P280 Wear protective gloves/protective clothing/eye protection/face protection. P281 Use personal protective equipment as required. P331 Do NOT induce vomiting. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P308+P313 IF exposed or concerned: Get medical advice/attention. P370+P378 In case of fire: Use appropriate media to extinguish. P405 Store locked up. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container that comply with local, State and Federal regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight Concentration %
Limestone	1317-65-3	30.00% - 40.00%
Talc	14807-96-6	10.00% - 20.00%
Solvent naphtha, petroleum, medium aliphatic	64742-88-7	10.00% - 20.00%
Titanium dioxide	13463-67-7	8.00%
Solvent naphtha, petroleum, light aliphatic	64742-89-8	1.00% - 5.00%
Naphtha, petroleum, hydrotreated light	64742-49-0	1.00% - 5.00%
Distillates, petroleum, light distillate hydrotreating process, low-boiling	68410-97-9	1.00% - 5.00%
2-Butanone, oxime	96-29-7	0.20%
Quartz	14808-60-7	0.40%

Specific percentages and ingredients may be claimed as a trade secret.

SECTION 4: FIRST AID MEASURES

EYES: Rinse immediately with plenty of clean water for at least 15 minutes. Remove contact lenses, if present, and flush under eyelids too. Seek medical attention.

SKIN: Wash thoroughly with soap and water while removing contaminated clothing/shoes. Seek medical attention if skin is damaged, or if pain/irritation develops or persists.

INGESTION: DO NOT INDUCE VOMITING! Keep respiratory tract clear. Never give anything by mouth to an unconscious person. Contact physician or your local poison control center immediately.

INHALATION: Move person to fresh air. If breathing stops, apply artificial respiration and seek medical attention immediately.



SAFETY DATA SHEET

Product: MARC 80 H.D. ZONE MARKING PAINT (WHITE)

Form R04132

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Foam, CO₂, Dry Chemical. Water spray may be ineffective. However, water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion from heating.

SPECIAL FIRE FIGHTING PROCEDURES: Full protective equipment and self-contained breathing apparatus should be used. Water spray may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion from heating.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Handle as an ignitable liquid. Keep containers tightly closed and isolate from heat, electrical equipment, sparks or flame. Vapors from an explosive mixture in air between the upper and lower explosive limits. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Avoid spontaneous combustion of soiled rags, steel wool, spray booth filters, spray residues and other waste material contaminated with this product by immediately immersing them in a sealed, water-filled metal container prior to disposal.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, aldehydes, hydrocarbons, and other products of incomplete combustion.

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES: Contain spillage. Then collect with inert absorbent material and non-sparking tools. Eliminate all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ensure adequate ventilation. Wear appropriate personal protective equipment.

PROTECTIVE EQUIPMENT: See Section 8.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Same as Emergency Procedures.

SECTION 7: HANDLING AND STORAGE

GENERAL HANDLING/STORAGE: Do not use until all safety precautions have been met and understood. Keep away from excessive heat, sparks or open flames. Store locked up in a cool, well-ventilated place. Keep containers closed and upright when not in use. Previously opened containers, carefully reseal. Store in accordance with local regulations. Smoking, eating, or drinking should be prohibited in the application area.

OTHER PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN! Do not take internally.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL NAME / CAS BI,	OSHA EXPOSURE LIMITS	ACGIH EXPOSURE LIMITS	OTHER EXPOSURE LIMITS
Limestone 1317-65-3	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	Not Established	NIOSH: 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)
Talc 14807-96-6	Not Established	2 mg/m ³ TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	NIOSH: 10 mg/m ³ TWA (containing no Asbestos and <1% Quartz, respirable dust)
Solvent naphtha, petroleum, medium aliphatic 64742-88-7	Not Established	Not Established	Not Established
Titanium dioxide 13463-67-7	15 mg/m ³ TWA (total dust)	10 mg/m ³ TWA	Not Established
Solvent naphtha, petroleum, light aliphatic 64742-89-8	Not Established	Not Established	Not Established
Naphtha, petroleum, hydrotreated light 64742-49-0	Not Established	Not Established	Not Established
Distillates, petroleum, light distillate hydrotreating process, low-boiling 68410-97-9	Not Established	Not Established	Not Established
Quartz 14808-60-7	Not Established	0.025 mg/m ³ TWA (respirable fraction)	NIOSH: 0.05 mg/m ³ TWA (respirable dust)



SAFETY DATA SHEET

Product: MARC 80 H.D. ZONE MARKING PAINT (WHITE)

Form R04132

ENGINEERING CONTROLS--

VENTILATION: Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and applicable exposure limits. Electrical equipment must comply with the National Electrical Code for this environment.

RESPIRATORY PROTECTION: Do not breathe vapors or spray mist. Wear an appropriate, properly fitted respirator (NIOSH approved) during the use of this product until vapor and mists are exhausted, unless air monitoring demonstrates vapor and mist levels are below applicable exposure limits.

EYE PROTECTION: Avoid contact with eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

SKIN PROTECTION/PROTECTIVE GLOVES: Use chemical/solvent impermeable gloves to avoid contact with product.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear suitable protective clothing. Provide readily accessible eyewash station and emergency shower. Use of protective creams, head caps, etc., is recommended. Avoid contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

WORK HYGIENIC PRACTICES: Handle according to established industrial hygiene and safety practices. Wash hands before eating or using washroom. Smoke in smoking areas only!

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE-

PHYSICAL STATE:	Liquid
COLOR:	White
ODOR:	Aromatic-like.
ODOR THRESHOLD:	No data found.
pH:	No data found.
MELTING/FREEZING POINT:N/A	No data found.
BOILING RANGE:	90 - 185°C
FLASH POINT/METHOD USED:	57°F., 14 °C
EVAPORATION RATE:	Slower than Ether.
FLAMMABILITY (solid, gas):	No data found.
EXPLOSIVE LIMITS (LEL – UEL):	1% - 8%
VAPOR PRESSURE (mmHg):	8.7 mmHg
VAPOR DENSITY (AIR = 1):	Heavier than air.
SPECIFIC GRAVITY (H2O = 1):	1.51
SOLUBILITY IN WATER:	No data found.
G/L VOC LESS WATER & EXEMPT SOLVENT:	383.82 g/l (3.203 pounds per gallon)
PARTITION COEFFICIENT, n-OCTANOL/WATER:	No data found.
AUTO-IGNITION TEMPERATURE:	N/A
DECOMPOSITION TEMPERATURE:	No data found.
VISCOSITY:	N/A

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: None. **STABILITY:** Stable.

CONDITIONS TO AVOID: Open flames, heat, sparks, and other ignition sources.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong acids, alkalis, strong oxidizers.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon monoxide, carbon dioxide, aldehydes, hydrocarbons.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions. **CONDITIONS TO AVOID (POLYMERIZATION):** N/A

SECTION 11: TOXICOLOGICAL INFORMATION

MIXTURE TOXICITY

COMPONENT TOXICITY:

64742-88-7	Solvent naphtha, petroleum, medium aliphatic Dermal LD50: 3,000 mg/kg (Rabbit)
64742-89-8	Solvent naphtha, petroleum, light aliphatic Oral LD50: 5,000 mg/kg (Mouse) Dermal LD50: 3,000 mg/kg (Rabbit)
96-29-7	2-Butanone, oxime Oral LD50: 930 mg/kg (Rat); Dermal LD50: 0 mg/kg (Rabbit); Inhalation LC50: 20 mg/l (Rat)

EYES: Liquid or vapor can cause irritation. **SKIN:** Liquid can cause irritation.

INGESTION: May be fatal if swallowed and enters airways. **INHALATION:** N/A

ACUTE HEALTH HAZARDS (ACUTE AND CHRONIC): N/A



SAFETY DATA SHEET

Product: MARC 80 H.D. ZONE MARKING PAINT (WHITE)
Form R04132

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/A

EFFECTS OF OVEREXPOSURE:

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
14808-60-7	Quartz	0.4	Quartz: NIOSH: potential Occupational carcinogen IARC: Human carcinogen OSHA: listed

TOXICITY TO ANIMALS: N/A

SECTION 12: ECOLOGICAL INFORMATION

COMPONENT ECOTOXICITY

Talc	96 Hr LC50 Brachydanio rerio: >100 g/L [semi-static]
Solvent naphtha, petroleum, Medium aliphatic	96 Hr LC50 Pimephales promelas: 800 mg/L [static] 48 Hr EC50 Daphnia magna: >100 mg/L 96 Hr EC50 Pseudokirchneriella subcapitata: 450 mg/L
Solvent naphtha, petroleum, Light aliphatic	72 Hr EC50 Pseudokirchneriella subcapitata: 4700 mg/L
2-Butaneone, oxime	96 Hr LC50 Pimephales promelas: 777 – 914 mg/l [flow-through]; 96 Hr LC50 Poecilia reticulata: 760 mg/l [static] 48 Hr EC50 Daphnia magna: 750 mg/l 72 Hr EC50 Desmodesmus subspicatus: 83 mg/l

TOXICITY: N/A; DEGRADABILITY: N/A

SECTION 13: DISPOSAL CONSIDERATIONS

Collect absorbent/spilled liquid into metal containers. Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility. Obey relevant laws.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (for ground/non-bulk containers)

CONTAINER SIZES(S): Bulk (5 Gallon)
PROPER SHIPPING NAME: Paint
HAZARD CLASS: 3
ID NUMBER: UN1263
PACKING GROUP: PGII
LABEL STATEMENT: Flammable Liquid

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): N/A
CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): N/A
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): N/A
311/312 HAZARD CATEGORIES: N/A; 313 REPORTABLE INGREDIENTS: None.

SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings: Health = 2, Flammability = 3, Reactivity = 0, Other = -, Protection = -
N/A = Not Applicable, N/D = Not Determined, N/E = Not Established

DISCLAIMER: While the information contained herein is believed to be correct, no warranties are made with respect thereto, and all liability from reliance thereon is disclaimed.



SAFETY DATA SHEET

Product: MARC 80 H.D. ZONE MARKING PAINT (YELLOW)

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: MARC 80 H. D. ZONE MARKING PAINT (YELLOW)

SDS DATE: 03/23/2021

SUPPLIER: Mid-American Research Chemical Corp.

ADDRESS: P. O. Box 927 • Columbus, NE 68602-0927

PHONE: 402-564-7104 FAX: 402-563-1290

EMERGENCY PHONE: InfoTrac 1-800-535-5053

E-MAIL: marc1@marc1.com WEBSITE: www.marc1.com

RECOMMENDED USE: Boundary and zone paint for striping and lane marking on asphalt or concrete, parking lots, curbs, etc.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Flammable liquid 2 Flash point < 23°C and initial boiling point > 35°C (95°F). Skin sensitizer 1. Mutagen 1B Known to produce heritable mutations in human germ cells. Subcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity. Carcinogen 1A Known Human Carcinogen Based on human evidence. Reproductive toxin 2 Human or animal evidence possibly with other information. Aspiration hazard 1. Aspiration Toxicity Category 1: Known (regarded)- human evidence - hydrocarbons with kinematic viscosity 20.5 mm²/s at 40° C. **Signal Word: Danger.**



GHS Hazards- H225 Highly flammable liquid and vapor. H304 May be fatal if swallowed and enters airways. H317 May cause an allergic skin reaction. H340 May cause genetic defects. H350 May cause cancer. H360 May damage fertility or the unborn child. **GHS Precautions-**P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/light/equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P280 Wear protective gloves/protective clothing/eye protection/face protection. P281 Use personal protective equipment as required. P331 Do NOT induce vomiting. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P308+P313 IF exposed or concerned: Get medical advice/attention. P370+P378 In case of fire: Use appropriate media to extinguish. P405 Store locked up. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container that comply with local, State and Federal regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight Concentration %
Limestone	1317-65-3	20.00% - 30.00%
Talc	14807-96-6	10.00% - 20.00%
Solvent naphtha, petroleum, medium aliphatic	64742-88-7	10.00% - 20.00%
Solvent naphtha, petroleum, light aliphatic	64742-89-8	5.00% - 10.00%
Naphtha, petroleum, hydrotreated light	64742-49-0	5.00% - 10.00%
Distillates, petroleum, light distillate hydrotreating process, low-boiling	68410-97-9	5.00% - 10.00%
Titanium dioxide	13463-67-7	2.00%
Quartz	14808-60-7	0.40%
2-Butanone, oxime	96-29-7	0.20%
Ethylbenzene	10041-4	0.10%

Specific percentages and ingredients may be claimed as a trade secret.

SECTION 4: FIRST AID MEASURES

EYES: Rinse immediately with plenty of clean water for at least 15 minutes. Remove contact lenses, if present, and flush under eyelids too. Seek medical attention.

SKIN: Wash thoroughly with soap and water while removing contaminated clothing/shoes. Seek medical attention if skin is damaged, or if pain/irritation develops or persists.

INGESTION: DO NOT INDUCE VOMITING! Keep respiratory tract clear. Never give anything by mouth to an unconscious person. Contact physician or your local poison control center immediately.

INHALATION: Move person to fresh air. If breathing stops, apply artificial respiration and seek medical attention immediately.



SAFETY DATA SHEET

Product: MARC 80 H.D. ZONE MARKING PAINT (YELLOW)

Form R04132

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Foam, CO₂, Dry Chemical. Water spray may be ineffective. However, water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion from heating.

SPECIAL FIRE FIGHTING PROCEDURES: Full protective equipment and self-contained breathing apparatus should be used. Water spray may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion from heating.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Handle as an ignitable liquid. Keep containers tightly closed and isolate from heat, electrical equipment, sparks or flame. Vapors from an explosive mixture in air between the upper and lower explosive limits. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Avoid spontaneous combustion of soiled rags, steel wool, spray booth filters, spray residues and other waste material contaminated with this product by immediately immersing them in a sealed, water-filled metal container prior to disposal.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, aldehydes, hydrocarbons, and other products of incomplete combustion.

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES: Contain spillage. Then collect with inert absorbent material and non-sparking tools. Eliminate all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ensure adequate ventilation. Wear appropriate personal protective equipment.

PROTECTIVE EQUIPMENT: See Section 8.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Same as Emergency Procedures.

SECTION 7: HANDLING AND STORAGE

GENERAL HANDLING/ STORAGE: Do not use until all safety precautions have been met and understood. Keep away from excessive heat, sparks or open flames. Store locked up in a cool, well-ventilated place. Keep containers closed and upright when not in use. Previously opened containers, carefully reseal. Store in accordance with local regulations. Smoking, eating, or drinking should be prohibited in the application area. **OTHER PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN!** Do not take internally.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL NAME / CAS BI,	OSHA EXPOSURE LIMITS	ACGIH EXPOSURE LIMITS	OTHER EXPOSURE LIMITS
Limestone 1317-65-3	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)	Not Established	NIOSH: 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)
Talc 14807-96-6	Not Established	2 mg/m ³ TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	NIOSH: 10 mg/m ³ TWA (containing no Asbestos and <1% Quartz, respirable dust)
Solvent naphtha, petroleum, medium aliphatic 64742-88-7	Not Established	Not Established	Not Established
Solvent naphtha, petroleum, light aliphatic 64742-89-8	Not Established	Not Established	Not Established
Naphtha, petroleum, hydrotreated light 64742-49-0	Not Established	Not Established	Not Established
Distillates, petroleum, light distillate hydrotreating process, low-boiling 68410-97-9	Not Established	Not Established	Not Established
Titanium dioxide 13463-67-7	15 mg/m ³ TWA (total dust)	10 mg/m ³ TWA	Not Established
Quartz 14808-60-7	Not Established	0.025 mg/m ³ TWA (respirable fraction)	NIOSH: 0.05 mg/m ³ TWA (respirable dust)
Ethylbenzene 100-41-4	100 ppm TWA; 435 mg/m ³ TWA	20 ppm TWA	NIOSH: 100 ppm TWA; 435 mg/m ³ TWA 125 ppm STEL; 545 Mg/m ³ STEL

ENGINEERING CONTROLS--

VENTILATION: Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and applicable exposure limits. Electrical equipment must comply with the National Electrical Code for this environment.



SAFETY DATA SHEET

Product: MARC 80 H.D. ZONE MARKING PAINT (YELLOW)

Form R04132

RESPIRATORY PROTECTION: Do not breathe vapors or spray mist. Wear an appropriate, properly fitted respirator (NIOSH approved) during the use of this product until vapor and mists are exhausted, unless air monitoring demonstrates vapor and mist levels are below applicable exposure limits.

EYE PROTECTION: Avoid contact with eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

SKIN PROTECTION/PROTECTIVE GLOVES: Use chemical/solvent impermeable gloves to avoid contact with product.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear suitable protective clothing. Provide readily accessible eyewash station and emergency shower. Use of protective creams, head caps, etc., is recommended. Avoid contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

WORK HYGIENIC PRACTICES: Handle according to established industrial hygiene and safety practices. Wash hands before eating or using washroom. Smoke in smoking areas only!

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE-

PHYSICAL STATE:	Liquid
COLOR:	Yellow
ODOR:	Aromatic-like.
ODOR THRESHOLD:	No data found.
pH:	No data found.
MELTING/FREEZING POINT:N/A	No data found.
BOILING RANGE:	90° C
FLASH POINT/METHOD USED:	57°F., 14 °C
EVAPORATION RATE:	Slower than Ether.
FLAMMABILITY (solid, gas):	No data found.
EXPLOSIVE LIMITS(LEL – UEL):	1% - 8%
VAPOR PRESSURE (mmHg):	8.7 mmHg
VAPOR DENSITY (AIR = 1):	Heavier than air.
SPECIFIC GRAVITY (H2O = 1):	1.37
SOLUBILITY IN WATER:	No data found.
G/L VOC LESS WATER & EXEMPT SOLVENT:	401.99 g/l; 3.355 pounds per gallon
PARTITION COEFFICIENT, n-OCTANOL/WATER:	No data found.
AUTO-IGNITION TEMPERATURE:	N/A
DECOMPOSITION TEMPERATURE:	No data found.
VISCOSITY:	N/A

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: None. **STABILITY:** Stable.

CONDITIONS TO AVOID: Open flames, heat, sparks, and other ignition sources.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong acids, alkalis, strong oxidizers.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon monoxide, carbon dioxide, aldehydes, hydrocarbons.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions. **CONDITIONS TO AVOID (POLYMERIZATION):** N/A

SECTION 11: TOXICOLOGICAL INFORMATION

MIXTURE TOXICITY

COMPONENT TOXICITY:

64742-88-7	Solvent naphtha, petroleum, medium aliphatic Dermal LD50: 3,000 mg/kg (Rabbit)
64742-89-8	Solvent naphtha, petroleum, light aliphatic Oral LD50: 5,000 mg/kg (Mouse) Dermal LD50: 3,000 mg/kg (Rabbit)
100-41-4	Ethylbenzene Oral LD50: 3,500 mg/kg (Rat) Inhalation LC50: 17 mg/L (Rat)
96-29-7	2-Butanone, oxime Oral LD50: 930 mg/kg (Rat); Dermal LD50: 0 mg/kg (Rabbit); Inhalation LC50: 20 mg/l (Rat)

EYES: Liquid or vapor can cause irritation. **SKIN:** Liquid can cause irritation.

INGESTION: May be fatal if swallowed and enters airways. **INHALATION:** N/A

ACUTE HEALTH HAZARDS (ACUTE AND CHRONIC): N/A. **MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** N/A



SAFETY DATA SHEET

Product: MARC 80 H.D. ZONE MARKING PAINT (YELLOW)

Form R04132

EFFECTS OF OVEREXPOSURE:

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
14808-60-7	Quartz	0.4	Quartz: NIOSH: potential Occupational carcinogen IARC: Human carcinogen OSHA: listed
100-4104	Ethylbenzene	0.1	Ethylbenzene: IARC: Possible Human carcinogen OSHA: listed

SECTION 12: ECOLOGICAL INFORMATION

COMPONENT ECOTOXICITY

Talc	96 Hr LC50 Brachydanio rerio: >100 g/L [semi-static]
Solvent naphtha, petroleum, Medium aliphatic	96 Hr LC50 Pimephales promelas: 800 mg/L [static] 48 Hr EC50 Daphnia magna: >100 mg/L 96 Hr EC50 Pseudokirchneriella subcapitata: 450 mg/L
Solvent naphtha, petroleum, Light aliphatic	72 Hr EC50 Pseudokirchneriella subcapitata: 4700 mg/L
Ethylbenzene	96 Hr LC50 Oncorhynchus mykiss: 11.0 – 18.0 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4.2 mg/L [semi-static]; 96 Hr LC50 Pimephales promelas: 7.55 – 11 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 32 mg/L [static]; 96 Hr LC50 Pimephales promelas: 9.1 - 15.6 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 9.6 mg/L [static] 48 Hr EC50 Daphnia magna: 1.8 – 2.4 mg/L 72 Hr EC50 Pseudokirchneriella subcapitata: 4.6 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: >438 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: 2.6 – 11.3 mg/L [static]; 96 Hr EC50 Pseudokirchneriella subcapitata: 1.7 – 7.6 mg/L [static]
2-Butanone, oxime	96 Hr LC50 Pimephales promelas: 777 – 914 mg/l [flow-through]; 96 Hr LC50 Poecilia reticulata: 760 mg/l [static] 48 Hr EC50 Daphnia magna: 750 mg/l 72 Hr EC50 Desmodesmus subspicatus: 83 mg/l

SECTION 13: DISPOSAL CONSIDERATIONS

Collect absorbent/spilled liquid into metal containers. Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility. Obey relevant laws.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (for ground/non-bulk containers)

CONTAINER SIZES(S): Bulk (5 Gallon)
PROPER SHIPPING NAME: Paint
HAZARD CLASS: 3
ID NUMBER: UN1263
PACKING GROUP: PGII
LABEL STATEMENT: Flammable Liquid.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): N/A
CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): N/A
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): N/A
311/312 HAZARD CATEGORIES: N/A
313 REPORTABLE INGREDIENTS: 100-41-4 Ethylbenzene 0%



SAFETY DATA SHEET

Product: MARC 80 H.D. ZONE MARKING PAINT (YELLOW)

Form R04132

SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings: Health = 2, Flammability = 3, Reactivity = 0, Other = -, Protection = -

N/A = Not Applicable, N/D = Not Determined, N/E = Not Established

DISCLAIMER: While the information contained herein is believed to be correct, no warranties are made with respect thereto, and all liability from reliance thereon is disclaimed.