



SAFETY DATA SHEET

Product: MARC 57+ SUPER LIFT STATION CLEANER

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 57+ SUPER LIFT STATION CLEANER**

SDS DATE: 12/28/2018

SUPPLIER: Mid-American Research Chemical Corp.

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

PHONE: 402-564-7104 FAX: 403-563-1290

EMERGENCY PHONE: InfoTrac 1-800-535-5053

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

RECOMMENDED USE: Lift Station Degreaser.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: FLAMMABLE LIQUIDS - Category 3, ACUTE TOXICITY: INHALATION - Category 4, SKIN CORROSION/IRRITATION - Category 2, SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A, CARCINOGENICITY - Category 2, SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Narcotic effects] - Category 3, SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) [central nervous system (CNS)] - Category 2, ASPIRATION HAZARD - Category 1

SIGNAL WORD AND HAZARD AND PRECAUTIONARY STATEMENTS-- DANGER: Flammable liquid and vapor. May accumulate electrostatic charge and ignite and explode. May be fatal if swallowed and enters airways. Causes skin irritation. Suspected of causing cancer. May cause drowsiness or dizziness. Toxic to aquatic life with long-lasting effects. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks open flames and hot surfaces. No smoking. Keep container tightly closed. Ground container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist, vapors or spray. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye protection. Wash hands and any exposed skin thoroughly after handling. If exposed or concerned: Get medical attention. If on skin or hair: Take off immediately all contaminated clothing. Rinse skin and hair with water. If skin irritation occurs: Get medical attention. Wash contaminated clothing before reuse. If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a Poison Center or physician if you feel unwell. If swallowed: Immediately call a Poison Center or doctor. Do NOT induce vomiting. If case of fire: Use water spray, fog or regular foam for extinction. Collect spillage. Store locked up in a cool, well-ventilated place in a tightly closed container. Dispose of in accordance with federal, state and local regulations.



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>%</u>
Dipentene	68956-56-9	35%-45%
Petroleum Distillate	8008-30-63	30%-40%
Solvent Naphtha	64742-95-6	10% - 20%
Orange Terpenes	5989-27-5	5% - 15%

Percentage of composition has been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush eyes with water for several minutes. Get medical advice/attention or call a POISON CENTER if irritation develops or persists and you feel unwell.

SKIN : Remove contaminated clothing and flush skin with water for several minutes. Wash thoroughly with soap and water. Get medical advice/attention if irritation develops or persists. Discard contaminated shoes.



SAFETY DATA SHEET

Product: MARC 57+ SUPER LIFT STATION CLEANER

Form R04132

INGESTION: **DO NOT INDUCE VOMITING!** Rinse mouth with water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs. Get immediate medical attention and show this container or label.

INHALATION: Remove person to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, have qualified personnel administer oxygen. If breathing has stopped, administer artificial respiration. Get medical attention immediately.

MOST IMPORTANT SYMPTOMS/

EFFECTS, ACUTE & DELAYED: May cause eye irritation. Causes skin irritation with redness and drying. Inhalation may cause respiratory irritation and central nervous system effects. Harmful or fatal if swallowed. Aspiration during swallowing or vomiting may cause lung damage. May cause cancer. May cause genetic defects.

INDICATION OF IMMEDIATE MEDICAL

ATTENTION & SPECIAL TREATMENT NEEDED: Immediate medical attention is required for ingestion.

SECTION 5: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Use water fog, alcohol foam, carbon dioxide (CO₂), or dry chemical. Do not use a steady stream of water. Product may float on the surface of water and create a floating fire hazard.

SPECIAL FIRE FIGHTING PROCEDURES

FIRE-FIGHTING EQUIPMENT: Firefighters should wear full emergency equipment and a NIOSH approved positive pressure self-contained breathing apparatus. Cool fire exposed container with water. Do not allow run-off from firefighting to enter sewers.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This product is flammable and forms explosive mixtures with air. Vapors are heavier than air and will travel along surfaces to remote ignition sources and flash back. Closed containers may explode if exposed to extreme heat.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion may produce carbon oxides and other products of incomplete combustion.

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES/ PROTECTIVE EQUIPMENT: Wear appropriate protective equipment. Eliminate ignitions sources and ventilate the area with explosion proof equipment. Wash thoroughly after handling.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Contain with an inert absorbent and place into a closable container for disposal. Use non-sparking tools and equipment. If spill has not ignited, use water spray to disperse the vapors and protect personnel attempting to stop leak. Prevent entry in storm sewers and waterways. Runoff can cause a fire or explosion hazard in sewers.

ENVIRONMENTAL PRECAUTIONS: Avoid release into the environment. Report spill as required by local and federal regulations.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Avoid contact with eyes, skin, and clothing. Avoid breathing vapors or mists. Wear protective clothing equipment. Use only with adequate ventilation. Wash hands thoroughly with soap and water after handling. Keep containers closed when not in use. Keep product away from eat, sparks, flames and all other sources of ignition. Do not permit smoking in use or storage areas. Use with non-sparking tools and explosion proof equipment. Electrically bond and ground containers for transfer.

Do not cut, drill, grind or weld on or near containers, even empty containers. Do not reuse containers. Empty containers retain product residues which can be hazardous. Follow all SDS precautions when handling empty containers.

OTHER PRECAUTIONS: **KEEP OUT OF REACH OF CHILDREN! READ LABEL CAREFULLY!**

STORAGE: Store in accordance with regulations for the storage of flammable liquids. Store in a dry, well-ventilated area away from heat, direct sunlight and all sources of ignition. Store away from oxidizers and other incompatible materials. Protect containers from physical damage. (see Section 10 of SDS).



SAFETY DATA SHEET

Product: MARC 57+ SUPER LIFT STATION CLEANER

Form R04132

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

INGREDIENTS

EXPOSURE LIMITS

Dipentene	None Established
Petroleum Distillate	200 mg/m ³ , skin, TWA ACGIH TLV
Solvent Naphtha	19 ppm TWA
Orange Terpenes	None Established

APPROPRIATE ENGINEERING CONTROLS/ VENTILATION:

Use with local exhaust ventilation to maintain exposures below the occupational exposure limits. Use explosion proof equipment where required. .

RESPIRATORY PROTECTION: If exposures are exceeded, use a NIOSH approved organic vapor respirator appropriate for the form and concentration of the contaminants should be used. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good industrial hygiene practice.

EYE/FACE PROTECTION: Wear chemical safety goggles to avoid eye contact.

SKIN PROTECTION/PROTECTIVE GLOVES: Impervious gloves such as nitrile recommended to prevent skin contact.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Impervious coveralls, apron and boots is required to prevent skin contact and contamination of personal clothing. A safety shower and eye wash should be available in the immediate work area.

WORK HYGIENIC PRACTICES: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

PHYSICAL STATE:	Liquid.
COLOR:	Reddish
ODOR:	Pine/orange
ODOR THRESHOLD:	Not available.
pH:	Not applicable.
MELTING/FREEZING POINT:	Not available.
INITIAL BOILING POINT/RANGE:	Not available.
FLASH POINT/METHOD USED:	>110.0°F
EVAPORATION RATE:	Not available.
FLAMMABILITY (solid, gas):	Not available
FLAMMABILITY LIMITS:	LEL: N/A UEL: N/A
VAPOR PRESSURE (mmHg):	<1 mmHg
VAPOR DENSITY (AIR = 1):	<1
RELATIVE DENSITY:	Not available
SPECIFIC GRAVITY (H₂O = 1):	0.83
SOLUBILITY IN WATER:	None
PARTITION COEFFICIENT, n-OCTANOL/WATER:	Not available
AUTO-IGNITION TEMPERATURE:	N/A
DECOMPOSITION TEMPERATURE:	Not available
VISCOSITY:	N/A

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: The product is not expected to be reactive.

CHEMICAL STABILITY: The product is stable under normal conditions.

**POSSIBILITY OF HAZARDOUS
REACTIONS:** None known.



SAFETY DATA SHEET

Product: MARC 57+ SUPER LIFT STATION CLEANER

Form R04132

CONDITIONS TO AVOID: Keep away from heat and all sources of ignition.

INCOMPATIBILITY (MATERIAL TO AVOID): Avoid oxidizing agents.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Thermal decomposition may yield carbon oxides and other products of incomplete combustion.

HAZARDOUS POLYMERIZATION: N/A

CONDITIONS TO AVOID (POLYMERIZATION): NA

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:

EYES: May cause mild irritation with redness, tearing and pain.

SKIN: May cause irritation, redness and defatting of the skin.

INGESTION: Swallowing may cause gastrointestinal irritation, nausea, vomiting, diarrhea, vertigo, drowsiness, mental confusion, staggering gait, slurred speech, convulsions, unconsciousness and death due to circulatory failure. Aspiration during swallowing or vomiting may cause lung damage.

INHALATION: Vapors may cause respiratory irritation and central nervous system effect including headache, dizziness, giddiness, euphoria, vertigo, blurred vision, nausea, numbness, drowsiness, anesthesia, and coma. Over exposure to benzene by inhalation may cause exhilaration, nervous excitation, and/or giddiness, followed by a period of depression, drowsiness, or fatigue, tightness of the chest, unconsciousness, tremors or death.

CHRONIC EFFECTS

OF OVEREXPOSURE: Prolonged occupational overexposure may cause dermatitis. Reports have associated repeated and prolonged overexposure to petroleum distillates with adverse liver, kidney and bone marrow effects and with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the product may be harmful or fatal.

REPRODUCTIVE TOXICITY: In a reproductive study, rats were administered 250 and 1000 mg/kg of petroleum distillates for at least 70 days prior to mating and during the 14 day mating cycle. The absence of adverse effects on in-life parameters (such as body weight, feed consumption, and clinical observations), a dosage level of 1000 mg/kg/day was considered to be the no-observed-adverse-effect level (NOAEL) for reproductive and systemic toxicity.

CARCINOGENICITY: Petroleum distillate is listed as a "Confirmed Animal Carcinogen with Unknown Relevance to Humans: A3 by ACGIH".

ACUTE TOXICITY VALUES: **Petroleum Distillates:** Oral rat LD50 >5000 mg/kg, Inhalation rat LC50 >5.28 mg/L/4 hr, Dermal rabbit LD50 >2000 mg/kg, Solvent Naphtha, oral rat LD50 >3492 mg/kg, Inhalation rat LC50 >3193 mg/m³, Dermal rabbit LD50 >3160 mg/kg (structurally similar chemical)

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Petroleum Distillate: 96 hr LL50 Oncorhynchus mykiss 2.5 mg/kg, 48 hr EL50 1.4 mg/L, 72 hr EL50 Pseudokirchnerella subcapitata 1.3 mg/L.

Solvent Naphtha: 96 hr LL50 Oncorhynchus mykiss 9.2 mg/kg, 48 hr EL50 Daphnia 3.2 mg/L.

Orange Terpenes: 96 hr LL50 Oncorhynchus mykiss 3.5 mg/kg

Persistence & Degradability: Petroleum distillate is inherently biodegradable.

Bioaccumulation Potential: Potential for bioconcentration is moderate to high.

Mobility in Soil: Low mobility.

Other Adverse Effects: This product is classified as toxic to the aquatic environment with long-term adverse effects. Releases to the environment should be avoided.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose in accordance with all local, state and federal regulations.



SAFETY DATA SHEET

Product: MARC 57+ SUPER LIFT STATION CLEANER

Form R04132

SECTION 14: TRANSPORT INFORMATION

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

CONTAINER SIZE(S):	BULK, PAILS
PROPER SHIPPING NAME:	COMPOUND, CLEANING, LIQUID
HAZARD CLASS:	N/A
ID NUMBER:	NONE
PACKING GROUP:	NONE
LABEL STATEMENT:	NONE

SECTION 15: REGULATORY INFORMATION

CERCLA HAZARDOUS SUBSTANCES (Section 103) RQ: This product has a Reportable Quantity (RQ) of 3.333 lbs. (based on the RQ for Naphthalene of 100 lbs). Releases above the RQ must be reported to the National Response Center. Report spills under federal, state and local regulations.

TSCA (TOXIC SUBSTANCE CONTROL ACT): Section 12(b) Export Notification (40 CFR 707, Subpt. D): N/A

SARA 311 Hazard Classification: Acute Health, Chronic Health, fire Hazard

SARA 313: This product contains the following chemical subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

Benzene	71-43-2	0-0.5%
Naphthalene	91-20-3	0-3%

SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings:

Health =	2
Flammability =	2
Reactivity =	0
Other =	-
Protection =	-

REVISION DATE: 12/28/2018

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.