



SAFETY DATA SHEET

Product: MARC 57-OT "A" TEAM LIFT STATION CLEANER

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: **MARC 57-OT "A" TEAM LIFT STATION CLEANER**

SDS DATE: 09/20/2019

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

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

RECOMMENDED USE: Lift station cleaner and deodorizer.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

OSHA/HCS STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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

INGREDIENT	CAS NO.	%
C9-C15 Cycloalkanes & Alkanes	64742-47-8	20%-60%
Orange Terpenes	5989-27-5	20%-60%

Percentage of composition has been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do. Continue rinsing for at least 10 minutes. If concerned, get medical advice/attention or call a POISON CENTER if irritation develops or persists and/or if you feel unwell.

SKIN (or hair): Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse.

INGESTION: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. DO NOT INDUCE VOMITING! If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Show this container or label.

INHALATION: Remove person to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to



SAFETY DATA SHEET

Product: MARC 57-OT "A" TEAM LIFT STATION CLEANER

Form R04132

give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE , POTENTIAL ACUTE HEALTH EFFECTS--

EYE CONTACT: May cause eye irritation.

INHALATION: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.

SKIN CONTACT: Causes skin irritation. May cause allergic skin reactions.

INGESTION: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.

OVER-EXPOSURE SIGNS/SYMPTOMS:

EYE CONTACT: Adverse symptoms may include the following: pain or irritation, watering, redness.

INHALATION: Adverse symptoms may include the following: nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness.

SKIN CONTACT: Adverse symptoms may include the following: irritation, redness.

INGESTION: Adverse symptoms may include the following: Nausea or vomiting.

INDICATION OF IMMEDIATE MEDICAL ATTENTION & SPECIAL TREATMENT NEEDED: If ingested, this material presents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended. Consider activated charcoal and/or gastric lavage. If patient is obtunded, protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position.

SPECIFIC TREATMENT: Treat symptomatically and supportively.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use dry chemical, CO₂, water spray (fog) or foam.

UNSUITABLE EXTINGUISHING MEDIA: Do not use water jet.

PROCEDURES FIRE-FIGHTING EQUIPMENT: Promptly isolate the scent by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products may include the following materials: carbon dioxide, carbon monoxide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES/PROTECTIVE EQUIPMENT: Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. For personal protection, see Section 8 of SDS.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Refer to attached safety data sheets and/or instructions for use. Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. For waste disposal, see Section 13 of the SDS.

ENVIRONMENTAL PRECAUTIONS: Avoid dispersal of spilled material and runoff and contact with soil and waterways. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear protective gloves. Wear eye or face protection. Keep away from flames and hot surfaces – No smoking. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling. Store locked up in a well-ventilated place. Keep cool. Do not breathe the mist or vapor. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Observe good hygiene practices.

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

STORAGE: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10 of SDS) and food and drink. Store locked up. Eliminate all ignition



SAFETY DATA SHEET

Product: MARC 57-OT "A" TEAM LIFT STATION CLEANER

Form R04132

sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

Occupational Exposure Limits

INGREDIENT NAME	EXPOSURE LIMITS
C9-C15 Cycloalkanes & Alkanes	ACGIH TLV 179 ppm (1200 mg/m3) 8 hour(s)

APPROPRIATE ENGINEERING CONTROLS/VENTILATION: Use only with adequate ventilation. Use explosion-proof ventilation equipment.

RESPIRATORY PROTECTION: Use a properly fitted, air-purifying or supplied-air respirator complying with an approved standard if a risk assessment indicates this is necessary.

EYE/FACE PROTECTION: If contact is possible, the following protection should be worn: Splash goggles

SKIN PROTECTION/PROTECTIVE GLOVES: Chemical-resistant gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

WORK HYGIENIC PRACTICES: Always observe good personal hygiene measures. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

PHYSICAL STATE:	Liquid.
COLOR:	Orange.
ODOR:	Orange.
ODOR THRESHOLD:	Not available.
pH:	Not available.
BOILING POINT:	192 to 205°C (377.6 to 401°F)
MELTING POINT:	-49°C (-56.2°F)
FREEZING POINT:	Not applicable
INITIAL BOILING POINT/RANGE:	310°F
FLASH POINT/METHOD USED:	120°F (Closed Cup)
EVAPORATION RATE:	< (n-butyl acetate. =1)
FLAMMABILITY (solid, gas):	Not determined.
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	
Explosive limit - lower:	Not determined.
Explosive limit - upper:	Not determined.
VAPOR PRESSURE (mmHg):	Not determined
VAPOR DENSITY (AIR = 1):	>1 [Air = 1]
RELATIVE DENSITY:	0.82
DENSITY:	6.8 lbs./gal.
SPECIFIC GRAVITY (H2O = 1):	Not available
SOLUBILITY IN WATER:	None.
PARTITION COEFFICIENT, n-OCTANOL/WATER:	Not available
AUTO-IGNITION TEMPERATURE:	>220°C (>428F)
CONDUCTIVITY:	NA
DECOMPOSITION TEMPERATURE:	Not available
VISCOSITY:	Not available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: None.

CHEMICAL STABILITY: The product is stable.

POSSIBILITY OF HAZARDOUS REACTIONS: None.

CONDITIONS TO AVOID: Avoid all possible sources of ignition (spark, or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas

INCOMPATIBILITY (MATERIAL TO AVOID): Reactive or incompatible with the following materials: oxidizing materials.



SAFETY DATA SHEET

Product: MARC 57-OT "A" TEAM LIFT STATION CLEANER

Form R04132

HAZARDOUS DECOMPOSITION OR BY- PRODUCTS: Decomposition products may include the following materials-carbon dioxide, carbon monoxide.

HAZARDOUS POLYMERIZATION: N/A

CONDITIONS TO AVOID (POLYMERIZATION): NA

SECTION 11: TOXICOLOGICAL INFORMATION

Orange Terpenes: Oral LD50-Rat = 4,400 mg/kg; Dermal LD50-Rabbit >5 g/kg

ACUTE TOXICITY: Citrus terpenes have been shown to have low oral toxicity (LC50>5g/kg) when tested on rabbits. Citrus terpenes also showed low toxicity by inhalation (RD50>1g/kg) when tested on mice. The skin irritancy in guinea pigs and rabbits is considered moderate and low, respectively. Inhalation may cause irritation of the nose, throat and respiratory tract.

C9-C15 Alkanes: In animal studies alkanes containing up to 22% aromatics indicated that the acute central nervous system effects are reversible. Based on existing animal studies, the potential for persistent effects is not clear.

Distillates (petroleum), Hydrotreated light: Mineral spirits have produced slight to moderate skin irritation particularly with evaporation from the skin is prevented. Animal studies have produced mild respiratory tract irritation at elevated concentrations.

IRRITATION/CORROSION

SKIN--C9-C15 Alkanes: Primary dermal irritation studies (four-hour exposure) in rabbits: slight to moderate skin irritation. In humans: slight to moderate skin irritation particularly with evaporation from the skin is prevented.

EYES: No additional information.

RESPIRATORY-C9-C15 Alkanes: Respiratory tract irritation at elevated concentrations. Also, sensory respiratory tract irritation was evident by reduced breathing rates in the test animals.

SENSITIZATION

SKIN- C9-C15 Alkanes: In animal studies utilizing mineral spirits containing up to 18%, aromatics skin sensitization is not evident.

MUTAGENICITY--CONCLUSION/SUMMARY: C9-C15 Alkanes: Not genotoxic.

CARCINOGENICITY

CONCLUSION/SUMMARY-C9-C15 Alkanes: A low carcinogenic potential is suggested by a lack of genotoxic potential identified in vivo and in vitro genetic toxicity tests (with and without metabolic activation).

REPRODUCTIVE TOXICITY

CONCLUSION/SUMMARY-C9-C15 Alkanes: There were no treatment-related effects on pregnancy rate, mortality or gross post-mortem observations in animal studies.

TERATOGENICITY

CONCLUSION/SUMMARY-C9-C15 Alkanes: There were no treatment-related effects on pregnancy rate, mortality or gross post-mortem observations in animal studies.

SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE: Possible narcotic effects.

SPECIFIC TARGET ORGAN TOXICITY-REPEATED EXPOSURE: Not available.

ASPIRATION HAZARD: Yes

INFORMATION ON LIKELY ROUTES OF EXPOSURE: Routes of entry anticipated: Oral, Dermal, Inhalation.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS--

EYES: Causes eye irritation. Symptoms may include watering and redness.

SKIN: Causes skin irritation and redness.

INGESTION: Nausea, vomiting

INHALATION: Nausea, vomiting.

POTENTIAL ACUTE HEALTH EFFECTS: See Section 4 of SDS.

POTENTIAL CHRONIC HEALTH EFFECTS: None known.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY--Orange Terpenes: LC50 Fish – Pimephales promelas: 0.619 – 0.796 mg/l, 96 hours flow-through; Oncorhynchus mykiss: 35 mg/l, 96 hours.

However, a spill may produce significant toxicity to aquatic organisms and ecosystems. Some studies have shown that certain bacteria and fungi have the ability to degrade terpenes, decreasing the toxicity to fish. When spilled, this product may act as an oil, causing a film, sheen, emulsion, or sludge at or beneath the surface of a body of water.

MOBILITY IN THE ENVIRONMENT: Citrus terpenes volatilize rapidly.

PERSISTENCE/DEGRADABILITY: Citrus terpenes are expected to be readily biodegradable.

BIOACCUMULATIVE POTENTIAL: Not Available

MOBILITY IN SOIL-Soil/water partition coefficient (Koc): Not available.

OTHER ADVERSE EFFECTS: No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of contents/container in accordance with federal, state and local regulations.



SAFETY DATA SHEET

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Form R04132

SECTION 14: TRANSPORT INFORMATION

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

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

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS--

TSCA (TOXIC SUBSTANCE CONTROL ACT): (TSCA 8b): All components are listed or exempted.

SARA 302/304 Composition/Information on ingredients--SARA 304 RQ: Not applicable.

SARA 311/312-- Classification: Fire hazard – Immediate (acute) health hazard.

SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings: Health = 1, Flammability = 2, Reactivity = 0.

REVISION DATE: 09/20/2019

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.