



SAFETY DATA SHEET

Product: MARC 93-OT ORANGE TERPENE TAR REMOVER & DEGREASER
Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: MARC 93-OT ORANGE TERPENE TAR REMOVER & DEGREASER

SDS DATE: 02/01/2019

SUPPLIER: Mid-American Research Chemical Corp.

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

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EMERGENCY PHONE: InfoTrac 1-800-535-5053

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

RECOMMENDED USE: Tar remover and degreaser.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).



CLASSIFICATION: Flammable Liquid Category 3, Aspiration Hazard Category 1, Skin Irritation Category 2, Skin sensitization Category 1B, Environmental Hazard (Acute and Chronic) Category 1.

SIGNAL WORD AND HAZARD STATEMENTS - DANGER: Flammable liquid and vapor. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H400 Very toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects. **Precautionary Statements—Prevention-** P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P240 Ground/bond container and receiving equipment. P241 Use rated explosion-proof electrical equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/fumes/gas/mist/vapors/spray. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release into the environment. P280 Wear protective gloves/eye protection/face protection. **Response-**P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P303+P361+P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. P370+P378 In case of fire: Use appropriate fire extinguishers for fire control. P391 Collect spillage. P331 Do NOT induce vomiting. P362 Take off contaminated clothing and wash before reuse. **Storage-**P405 Store locked up. **Disposal-**P501 Dispose on contents/container in accordance with local, regional national and/or international regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>CHEMICAL NAME</u>	<u>CAS NO.</u>	<u>Weight-%</u>
Orange Terpenes	5989-27-5	80-99
Nonyl Phenol Ethoxylate	9016-45-9	1-5

The exact percentages of composition has been withheld as a trade secret

SECTION 4: FIRST AID MEASURES

EYES: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Immediately flush with plenty of water. After initial flushing, remove contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Seek medical attention.

SKIN: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician. Immediate medical attention is not required.

INGESTION: **DO NOT** induce vomiting! Clean mouth with water and afterwards drink one glass of water or milk. Never give anything by mouth to an unconscious person. Do not leave victim unattended. Call a physician.

INHALATION: Move to fresh air in case of accidental inhalation of vapors or decomposition products. If not breathing, give artificial respiration. If symptoms persist, call a physician.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use: dry chemical . Carbon dioxide (CO2). Water spray (fog). Alcohol resistant foam.



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UNSUITABLE EXTINGUISHING MEDIA: Caution- Use of water spray when fighting fire may be inefficient.

SPECIAL FIRE FIGHTING PROCEDURES/PROTECTION FOR FIREFIGHTERS : As in any fire, firefighters should wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

UNUSUAL FIRE AND EXPLOSION HAZARDS: In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Keep product and empty container away from heat and sources of ignition. Risk of ignition.

HAZARDOUS DECOMPOSITION PRODUCTS: None under normal processing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES: Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.

PROTECTIVE EQUIPMENT: Use personal protective devices as stated in Section 8.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Same as Emergency Procedures. Eliminate all sources of ignition.

ENVIRONMENTAL PRECAUTIONS: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

SECTION 7: HANDLING AND STORAGE

GENERAL HANDLING: Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Use with local exhaust ventilation. Use personal protective equipment as required (See Section 8). Do not breathe vapors. Keep away from hot surfaces. – No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

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

STORAGE: Keep tightly closed in a dry, cool, well-ventilated place. Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat.

INCOMPATIBLE MATERIALS: None known based on information supplied.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

ENGINEERING CONTROLS/ VENTILATION: Use in well ventilated area. Keep away from sparks and flames.

RESPIRATORY PROTECTION: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

EYE PROTECTION: Wear safety glasses with side shields (or goggles). Wear a face shield if splashing hazard exists.

SKIN & BODY PROTECTIVE CLOTHING OR EQUIPMENT: Wear impervious protective clothing, including boots, gloves, lab coat, apron, or coveralls, as appropriate, to prevent skin contact. Have showers, eyewash stations and ventilation systems.

WORK HYGIENIC PRACTICES: Practice good personal hygiene. When using do not eat, drink or smoke. Wash hands thoroughly after use and handling. Regular cleaning of equipment, work area and clothing is recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
COLOR:	Clear orange
ODOR:	Orange
ODOR THRESHOLD:	No information available.
pH:	Not an aqueous solution.
FREEZE/THAW STABILITY:	No information available.



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BOILING POINT:	No information available.
FLASH POINT:	>113°F/45°C
EVAPORATION RATE:	0.2 (Butyl Acetate =1)
SPECIFIC GRAVITY:	0.841
FLAMMABILITY LIMITS:	No information available.
VAPOR PRESSURE (mmHg) :	No information available.
VAPOR DENSITY (AIR = 1):	No information available.
SOLUBILITY IN WATER:	Emulsifies
LOG POW (n-OCTANOL/ WATER PARTITION COEFFICIENT)	No information available.
AUTO-IGNITION TEMPERATURE:	No information available.
DECOMPOSITION TEMPERTAURE:	No information available.
VISCOSITY:	Water thin.
DENSITY LBS/GAL:	7.0
VOC CONTENT (%):	80-99

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: No data available.

STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID: Keep away from heat, sparks, and flame.

INCOMPATIBILITY (MATERIAL TO AVOID): None known based on information supplied.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None known based on information supplied.

POSSIBILITY OF HAZARDOUS REACTIONS: None known based on information supplied.

HAZARDOUS POLYMERIZATION: None known.

CONDITIONS TO AVOID (POLYMERIZATION): NA

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Exposure: Exposure will most likely occur through eye and skin contact or from inhalation of vapors and/or mists.

EYES: Avoid contact with eyes. Contact with eyes may cause irritation.

SKIN: Avoid contact with skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Repeated exposure may cause skin dryness or cracking. May cause sensitization by skin contact.

INGESTION: Do not taste or swallow. May be harmful if swallowed.

INHALATION: Avoid breathing vapors or mists. Inhalation of vapors in high concentration may cause irritation of respiratory system.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Orange Terpenes 5989-27-5	=4400 mg/lg (Rat)	>5 g/kg (Rabbit)	-

Information on toxicological effects symptoms: No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Orange Terpenes 5989-27-5	-	Group 3	-	-

IARC (International Agency for Research on Cancer): Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)--

Reproductive toxicity: No information available.

STOT – single exposure: No information available.

STOT – repeated exposure: No information available.

Chronic toxicity: Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.



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Aspiration hazard: No information available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Orange Terpenes 5989-27-5	-	0.619 – 0.796: 96 h Pimephales promelas mg/L LC50 flow-through 35: 96 h Oncorhynchus mykiss mg/L LC50	-

PERSISTENCE/DEGRADABILITY: No information available.

BIOACCUMULATION: No information available.

OTHER ADVERSE EFFECTS: No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14: TRANSPORT INFORMATION

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

CONTAINER SIZES(S): All Sizes
PROPER SHIPPING NAME: COMPOUND, CLEANING LIQUID
HAZARD CLASS: None
ID NUMBER: None
PACKING GROUP: None
LABEL STATEMENT: None

SECTION 15: REGULATORY INFORMATION

TSCA (United States Toxic Substances control Act Section 8(b) Inventory): Complies

SARA 313 of Title III of the superfund Amendments and Reauthorization Act of 1986 (SARA): This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA311/312 Hazard Categories

Acute health hazard: Yes
Chronic health hazard: No
Fire hazard: Yes
Sudden release of pressure hazard: No
Reactive Hazard: No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). **California Proposition 65:**

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name: Ethylene oxide-- Cancer-Yes, Reproductive-Yes.

SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings: Health = 2, Flammability = 2, Reactivity = 1, Protection = B

REVISION DATE: 02/01/2019

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.