

Product: MARC 108 CITATION STAINLESS STEEL & METAL POLISH

Form R04132

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER AND NAME: MARC 108 CITATION STAINLESS STEEL & METAL POLISH

SDS DATE: 1/19/15

SUPPLIER: Mid-American Research Chemical Corp.ADDRESS: P. O. Box 927 Columbus, NE 68602-0927PHONE: 402-564-7104FAX: 402-563-1290EMERGENCY PHONE: InfoTrac 1-800-535-5053E-MAIL: marc@marc1.comWEBSITE: www.marc1.com

RECOMMENDED USE: Stainless steel and metal polish and cleaner.

PREPARED BY: MARC

SECTION 2: HAZARDS IDENTIFICATION

CLASSIFICATION: Serious eye damage/eye irritation.

SIGNAL WORD AND PRECAUTIONARY STATEMENTS: DANGER: EXTREMELY FLAMMABLE AEROSOL.

Causes serious eye irritation. CONTENTS UNDER PRESSURE.





POTENTIAL HEALTH EFFECTS: See Section 11 for more information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

INGREDIENT	CAS NO.	<u>%</u>
Distillates, Petroleum, Hydrotreated	64742-46-7	20-40
Middle		
Acetone	67-64-1	10-20
Butane	106-97-8	2.5-10
Propane	74-98-6	2.5-10
Naphtha (petroleum), Light Alkylate	64741-66-8	1-2.5
Other components below reportable levels.		40-60

SECTION 4: FIRST AID MEASURES

EYES: Rinse with water. Get medical attention if irritation develops and persists.

SKIN: Wash off with soap and water. Get medical attention if irritation develops and persists.

INGESTION: Rinse mouth. Get medical attention if symptoms occur.

INHALATION: Move to fresh air. Call a physician if symptoms develop or persist.

MOST IMPORTANT SYMPTOMS/EFFECTS,

ACUTE AND DELAYED: Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: PI

Provide general supportive measures and treat symptomatically. Keep victim under observation.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Symptoms may be delayed.

GENERAL INFORMATION: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.



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SECTION 5: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Powder. Alcohol resistant foam. Carbon dioxide (C02).
UNSUITABLE EXTINGUISHING MEDIA:	Do not use water jet as an extinguisher, as this will spread the fire.
SPECIFIC/UNUSUAL FIRE AND EXPLOSION HAZARDS ARISING FROM THE CHEMICAL:	Contents under pressure. Pressurized container may explode when exposed to heat or flame.
SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
FIRE-FIGHTING EQUIPMENT/ INSTRUCTIONS:	Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder of monitor nozzles, if possible. If not, withdraw and let fire burn out.
SPECIFIC METHODS:	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.
HAZARDOUS DECOMPOSITION PRODUCTS:	No hazardous decomposition products are known.

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

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

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see Section 13 of the SDS.

ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

SECTION 7: HANDLING AND STORAGE

HANDLING & STORAGE:

Precautions for safe handling: Pressurized container. Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Al equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid contact with eyes. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

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



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CONDITIONS FOR SAFE STORAGE, Leve INCLUDING ANY INCOMPATIBILITIES:

Level 3 Aerosol.

50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Refrigeration is recommended. Store away from incompatible materials (see Section 10 of the SDS).

500 ppm

1000 ppm

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure limits

Butane (CAS 106-97-8)

US. OSHA: Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

		· · · · /
Components	Туре	Value
Acetone (67-64-1)	PEL	2400 mg/m3 1000 ppm
Propane (74-98-6)	PEL	1800 ppm 1000 ppm
US. ACGIH: Threshold Limit Values		
Components	Туре	Value
Acetone (67-64-1)	STEL	750 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components		Туре	Value	2
Acetone (67-64-1)		TWA	590 n 250 p	ng/m3 pm
Butane (CAS 106-97-8)		TWA	1900 800 p	mg/m3 pm
Propane (74-98-6)		TWA	1800 1000	mg/m3
Biological Limit Values ACGIH Biological Exposur	e Indices		1000	ррш
Components Acetone (67-64-1)	Value 50 mg/1	Determinant Acetone	Specimen Urine	Sampling Time N/A

TWA

STEL

APPROPRIATE ENGINEERING CONTROLS: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

MECHANICAL: N/A

OTHER: Wear suitable protective clothing.

VENTILATION: N/A

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RESPIRATORY PROTECTION: If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an airsupplied respirator.

EYE/FACE PROTECTION: Wear safety glasses with side shields (or goggles).

SKIN PROTECTION/PROTECTIVE GLOVES: Wear appropriate chemical resistant gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear appropriate chemical resistant clothing.

THERMAL HAZARDS: Wear appropriate thermal protective clothing, when necessary.

WORK HYGIENIC PRACTICES: When using DO NOT SMOKE! 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:	Gas.	
FORM:	Aerosol	
COLOR:	Not available.	
ODOR:	Not available.	
ODOR THRESHOLD:	Not available.	
SOLUBILITY IN WATER:	Not available.	
SPECIFIC GRAVITY:	0.504 estimated	
MELTING/FREEZING POINT:	Not available.	
BOILING POINT & RANGE:	542.48°F (283.6°C) estimated	
FLASH POINT/METHOD USED:	-156.0°F (-104.4°C) Propellant estimated	
EVAPORATION RATE:	Not available.	
FLAMMABILITY (solid, gas):	Not available.	
UPPER/LOWER FLAMMABILITY		
OR EXPLOSIVE LIMITS:	LOWER (1%): 1% estimated UPPER (1%): 7.8% estimated	
VAPOR PRESSURE (mmHg):	20 - 40 (PSIG) @ 70°F. estimated	
VAPOR DENSITY (AIR = 1):	Not available.	
PARTITION COEFFICIENT,		
n-OCTANOL/WATER:	Not available.	
AUTO-IGNITION TEMPERATURE:	834.8°F (466°C) estimated	
DECOMPOSITION TEMPERATURE:	Not available.	
VISCOSITY:	Not available.	
DENSITY:	0.50 g/cm3 estimated	

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY/STABILITY: The product is stable and non-reactive under normal conditions of use, storage and transport.

CONDITIONS TO AVOID: Avoid temperatures exceeding the flash point, and contact with incompatible materials.

INCOMPATIBILITY (MATERIAL TO AVOID): Acids. Strong oxidizing agents. Nitrates, fluorine and chlorine.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: No hazardous decomposition products are known.

HAZARDOUS POLYMERIZATION: Hazardous polymerization does not occur.

CONDITIONS TO AVOID (POLYMERIZATION): None known.



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SECTION 11: TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE: Skin contact. Eye contact. Inhalation. Ingestion.

EYES: Causes serious eye irritation.

SKIN: No adverse effects due to skin contact are expected.

INGESTION: Expected to be a low ingestion hazard.

INHALATION: Prolonged inhalation may be harmful.

ACUTE HEALTH HAZARDS: N/A

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

CHRONIC HEALTH HAZARDS: N/A

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/A

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY

PRODUCT 11 OZ. CITATION M-108 LB. 12 PK (0	SPECIES	TEST RESULTS
ACUTE		
Dermal		
LD50	Guinea Pig	60669.9336 mg/kg, 24 Hours estimated 76.7974 ml/kg, 24 Hours estimated
	Rabbit	6885.8418 mg/kg, 24 Hours estimated 76.7974 ml/kg, 24 Hours estimated
Inhalation		
LC100	Cat	750% estimated
LC50	Mouse	10308.333mg/l, 120 Minutes estimated 433.3333%, 120 Minutes estimated 133.3333 mm/l, 2 Hours estimated
	Rat	28983.5273 mg/m3, 4 Hours estimated 440.2205 mg/l, 3 Hours estimated 344.5459 mg/l/4h estimated 6.941 mg/l, 4 Hours estimated
Oral LD50	Rat	41797.2383 mg/kg estimated 17.9549 m/kg estimated
COMPONENTS	SPECIES	TEST RESULTS
Acetone (CAS 67-64-1)		
ACUTE Dermal		
LD50	Guinea Pig	>7426 mg/kg, 24 Hours >9.4 ml/kg, 24 Hours
	Rabbit	>7426 mg/kg, 24 Hours >9.4 ml/kg, 24 Hours



Inhalation LC50	Rat		55700 ppm, 3 Hours 132 mg/l, 3 Hours 50.1 mg/l
Oral LD50	Rat		5800 mg/kg 2.2 ml/kg
Butane(CAS 106-97-8) ACUTE Inhalation			2.2 m/kg
LC50	Mouse		1237 mg/l, 120 Minutes 52 %, 120 Minutes
	Rat		1355 mg/l
COMPONENTS	SPECIES	6	TEST RESULTS
Distillates, Petroleum, Hydrotreated N	iddle (CAS	64742-46-7)	
ACUTE			
Dermal LD50	Rabbit		>2000 mg/kg, 24 Hours
Inhalation LC50	Rat		7640 mg/m3, 4 Hours 1.72 mg/l, 4 Hours
Naphtha (petroleum), Light Alkylate (C	AS 64741-0	66-8)	
Dermal LD50	Rabbit		>1900 mg/kg, 24 Hours
Inhalation LC50	Rat		>5020 mg/m3, 4 Hours >4980 mg/m3 >4980 mg/m3, 4 Hours >4.96 mg/l, 4 Hours
Oral LD50	Rat		4820 mg/kg
Propane (CAS 74-98-6) ACUTE			
Inhalation LC50	Mouse		1237 mg/l, 120 Minutes 52%, 120 Minutes
	Rat		1355 mg/l 658 mg/l4h
Estimates for product may be based of	n additiona	l component data not shown.	
SKIN CORROSION/IRRITATION:	Not appli	cable.	
SERIOUS EYE DAMAGE/ EYE IRRITATION:	Causes s	serious eye irritation.	
RESPIRATORY OR SKIN SENSITIZ		Not available.	
SKIN SENSITIZATION:		This product is not expected	to cause skin sensitization.
GERM CELL MUTAGENICITY:		No data available to indicate are mutagenic or genotoxic.	product or any components present at greater than 0.1%

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CARCINOGENI OSHA		ted Substances (29 CFR 1910.1001-10	50): Not listed.
REPRODUCTIV	/E TOXICITY:	This product is not expected to cau	se reproductive or developmental effects.
SPECIFIC TAR	GET ORGAN TOXIC SURE:	CITY- Not classified.	
SPECIFIC TAR	GET ORGAN TOXIC POSURE:	CITY- Not classified.	
ASPIRATION H	AZARD:	Not likely, due to the form of the pro	oduct.
CHRONIC EFFI	ECTS:	Prolonged inhalation may be harmf	ul.
SECTION 12	ECOLOGICA	L INFORMATION	
ECOTOXICITY:	Harm	ful to aquatic life with long lasting effects	S.
PRODUCT		SPECIES	TEST RESULTS
11 OZ. CITATIC	ON M-108 LB. 12 PK	(CAS MIXTURE)	
Aquatic			
Crustacea	EC50	Daphnia	42138.8906 mg/l, 48 Hours estimated
Fish	LC50	Fish	68920.6641 mg/l, 96 Hours estimated
COMPONENTS		SPECIES	TEST RESULTS
Acetone (CAS 6	64-1)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	21.6-23.9 mg/l, 48 Hours
Fish	LC50	Rainbow trout, Donaldson trout (Oncorhynchus mykiss)	4740-6330 mg/l, 96 Hours
Estimates for pr	oduct may be based	on additional component data not show	vn.
PERSISTENCE	AND DEGRADABI	LITY: No data is available on th	ne degradability of this product.
BIOACCUMUL	ATIVE POTENTIAL:	No data available.	
PARTITION CO Acetone Butane Propane	EFFICIENT N-OCT -0.24 2.89 2.36	ANE/water (log kow)	
MOBILITY IN S	OIL:	No data available.	
OTHER ADVER	SE EFFECTS:		fects (e.g. ozone depletion, photochemical ozone creation bal warming potential) are expected from this component.

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SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

LOCAL DISPOSAL REGULATION:	Dispose in accordance with all applicable regulations.
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HAZARDOUS WASTE CODES: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

US RCRA HAZARDOUS WASTE U LIST: Reference

Acetone (CAS 67-64-1)

Waste from residues / unused Products:	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: disposal instructions)
Contaminated packaging:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

U002

SECTION 14: TRANSPORT INFORMATION

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

 CONTAINER SIZES(S):
 Aerosol Can 11 oz.

 PROPER SHIPPING NAME:
 CLEANING COMPOUND

 HAZARD CLASS:
 N/A

 ID NUMBER:
 N/A

 PACKING GROUP:
 N/A

 LABEL STATEMENT:
 Limited Quantity

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA SECTION 12 (b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

CERCLA HAZARDOUS SUBSTANCE LIST (40 CFR 302.4)

Acetone (CAS 67-64-1) Listed.

SARA 304 EMERGENCY RELEASE NOTIFICATION: Not regulated.

OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1050):

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA): Hazard categories: Immediate Hazard – Yes

Immediate Hazard – Yes Delayed Hazard – No Fire Hazard – Yes Pressure Hazard – No Reactivity Hazard – No

SARA 302 Extremely hazardous substance:

Not listed.

Not listed.



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SARA 311/312 Hazardous chemical: No

SARA 313 (TRI reporting): Not regulated.

OTHER FEDERAL REGULATIONS

CLEAN AIR ACT (CAA) SECTION 112 GAZARDIYS AUR OIKKYTABTS (HAPs) LIST: Not regulated.

CLEAN AIR ACT (CAA) 112(r) ACCIDENTAL RELEASE PREVENTION (40 CFR 68.130) Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

SAFE DRINKING WATER ACT: Not regulated.

(SDWA)

DRUG ENFORCEMENT ADMINISTRATION (DEA). List 1 & 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Acetone (CAS 67-64-1) 6532

DRUG ENFORCEMENT ADMINISTRATION (DEA). List 1 & 2, Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1) 35%WV

DEA Exempt Chemical Mixtures Code Number

Acetone (CAS 67-64-1) 6532

STATE REGULATIONS:

US. California Proposition 65:

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

United States & Puerto Rico Toxic Substances Contr	trol Act (TSCA) Inventory Yes	

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16: OTHER INFORMATION

HMIS/NFPA Ratings:	Health =	1
	Flammability =	3
	Reactivity =	0
	Other =	-
	Protection =	В

REVISION DATE: 1/19/15

DISCLAIMER: MARC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



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