

Safety Data Sheet

Product identifier used on the label: **MAG 1 NON-CHLORINATED BRAKE CLEANER**

Stock Number: MG722409

Revision Date: 06-06-2017

Replaces:

1. Identification

Product identifier used on the label: **MAG 1 NON-CHLORINATED BRAKE CLEANER**
Stock Number: MG722409

Other means of identification:
Synonyms: No data available

Recommended use of the chemical and restrictions on use:
Recommended use: Lubricants and performance fluids for the automotive industry
Restrictions on use: Uses other than those described above

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party: Warren Distribution, Inc.
727 S. 13th Street
Omaha, NE 68102

Phone number: +01 (800) 825-1235 +01 (402) 341-9397

E-mail address: sds@wd-wpp.com

Emergency phone number: CHEMTREC: +1 (800) 424-9300 International: +01 (703) 527-3887

2. Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200:

GHS Hazard Symbols:



GHS Classification: Flammable Aerosol Category 1
Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2
Hazardous to the aquatic environment - Acute Category 2
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3
Hazardous to the aquatic environment - Chronic Category 4

Signal Word: Danger

Hazard Statements: Extremely flammable aerosol; Causes skin irritation; Causes serious eye irritation; May cause respiratory irritation; May cause drowsiness or

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dizziness; Toxic to aquatic life; May cause long lasting harmful effects to aquatic life

Precautionary Statements:

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing dust/fume/gas/mist/ vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response:

If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor/.../if you feel unwell. Specific treatment (see Sections 4 - 8 of Safety Data Sheet). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not otherwise classified:

No data available

3. Composition/information on ingredients

Chemical Name	Common name and synonyms	CAS #	%
Acetone	No data available	67-64-1	30 - 60
Heptane	No data available	142-82-5	15 - 40
Carbon dioxide	No data available	124-38-9	3 - 7
Isopropanol	No data available	67-63-0	1 - 5

One or more hazardous ingredient(s) is claimed as a trade secret under the OSHA Hazard Communication Standard. The hazards of this (these) ingredient(s) are given on this SDS.

4. First-aid measures

Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin

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and eye contact, and ingestion:

Inhalation:	If inhaled: Remove person to fresh air and keep comfortable for breathing.
Eye Contact:	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 advice/attention.
Skin Contact:	If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
Ingestion:	Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this SDS.

Most important symptoms/effects, acute and delayed: Causes skin irritation Causes serious eye irritation May cause respiratory irritation May cause drowsiness or dizziness

Indication of immediate medical attention and special treatment needed, if necessary: Specific treatment (see Sections 4 - 8 of Safety Data Sheet). Call a poison center/doctor/.../if you feel unwell.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire.

Unsuitable extinguishing media: No data available

Specific hazards arising from the chemical: No data available

Hazardous combustion products: Carbon dioxide, Carbon monoxide

Special protective equipment and precautions for fire-fighters: No data available

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Avoid release to the environment.

Methods and materials for containment: Prevent the spread of any spill to minimize harm to human health and

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and cleaning up:

the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Dispose of according to Federal, State, Local, or Provincial regulations. Used fluid should be disposed of at a recycling center. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

7. Handling and storage

Precautions for safe handling:

Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Conditions for safe storage, including any incompatibilities:

Safe storage conditions:

Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Materials to Avoid/Chemical Incompatibility:

Strong oxidizing agents

8. Exposure controls/personal protection

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available:

Chemical component	OSHA PEL	ACGIH TLV	ACGIH STEL	IDLH
Acetone	1000 ppm TWA; 2400 mg/m ³ TWA	500 ppm TWA	750 ppm STEL	2500 ppm IDLH (10% LEL)
Heptane	500 ppm TWA; 2000 mg/m ³ TWA	400 ppm TWA (listed under Heptane, all isomers)	500 ppm STEL (listed under Heptane, all isomers)	750 ppm IDLH
Carbon dioxide	5000 ppm TWA; 9000 mg/m ³ TWA	5000 ppm TWA	30000 ppm STEL	40000 ppm IDLH
Isopropanol	400 ppm TWA; 980 mg/m ³ TWA	200 ppm TWA	400 ppm STEL	2000 ppm IDLH (10% LEL)

Appropriate engineering controls:

Use only outdoors or in a well-ventilated area. Local exhaust ventilation or other engineering controls are normally required when handling or

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using this product to avoid overexposure.

Individual protection measures, such as personal protective equipment:

Respiratory Protection:

Avoid breathing dust/fume/gas/mist/ vapors/spray.

Respirator Type(s):

If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Eye protection:

Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin protection:

Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves:

Nitrile, Polyvinylalcohol

General hygiene conditions:

Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

9. Physical and chemical properties

Appearance (physical state, color etc.):

Physical state:	Liquid
Color:	Colorless
Odor:	Not determined
Odor Threshold:	Not determined
pH:	No data available
Melting point/freezing point:	
Melting Point:	No data available
Freezing point:	No data available
Initial boiling point and boiling range (°C):	56
Flash Point (°C):	Not determined
Evaporation Rate:	2-10 (n-Butyl acetate = 1)
Flammability (solid, gas):	No data available

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Upper/lower flammability or explosive limits:

Upper flammability or explosive limits: Not established

Lower flammability or explosive limits: Not established

Vapor pressure: No data available

Vapor density: 2.07

Relative density: 0.77

Solubility(ies): Low; 10-49%

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Decomposition Temperature: Not determined

Viscosity: No data available

Volatile organic compound (VOC) 0.000000

content and percentage of volatiles:

10. Stability and reactivity

Reactivity:

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: None expected under standard conditions of storage.

Conditions to avoid (e.g., static discharge, shock, or vibration): Sparks, open flame, other ignition sources, and elevated temperatures.

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products: No data available

11. Toxicological information

Description of the various toxicological (health) effects and the available data used to identify those effects:

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): Inhalation Eye Contact Skin contact

Symptoms related to the physical, chemical and toxicological characteristics: Causes skin irritation Causes serious eye irritation May cause respiratory irritation May cause drowsiness or dizziness

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Delayed and immediate effects and also chronic effects from short- and long-term exposure:

Ingestion Toxicity:	Although this product has a low order of acute oral toxicity, aspiration of minute amounts into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.
Skin Contact:	Causes skin irritation
Absorption:	Likely to be practically non-toxic based on animal data.
Inhalation Toxicity:	May cause respiratory irritation
Eye Contact:	Causes serious eye irritation
Sensitization:	No data available
Mutagenicity:	No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.
Carcinogenicity:	Contains a substance that is a possible cancer hazard based on high dose animal studies and/or a human study.
STOT-single exposure:	Classification has been based on toxicological information of the components in Section 3.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.
Other information:	No data available

Numerical measures of toxicity (such as acute toxicity estimates):

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropanol	OLD50 Rat = 4396 mg/kg	Dermal LD50 Rabbit = 12800 mg/kg	Inhalation LC50 (8h) Rat = 16000 ppm
Heptane	OLD50 Mouse > 5000 mg/kg	Dermal LD50 Rabbit = 3000 mg/kg	Inhalation LC50 (4h) Rat = 103 mg/L
Acetone	OLD50 Rat 5800 mg/kg	Dermal LD50 Rabbit 20000 mg/kg	Inhalation LC50 (8h) Rat = 50100 MG/M3

Is the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA:

Chemical Name	OSHA Carcinogen	IARC Carcinogen	NTP Carcinogen
There are no components that are known or reported to cause cancer.			

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12. Ecological information

Ecotoxicity (aquatic and terrestrial, where available): No data available

Ecological Toxicity Data:

Chemical Name	CAS #	Aquatic EC50 Crustacea	Aquatic ERC50 Algae	Aquatic LC50 Fish
Isopropanol	67-63-0	13299 mg/L	> 1000 mg/L	= 9640 mg/L
Carbon dioxide	124-38-9	No data available	No data available	Aquatic LC50 (96h) Rainbow Trout = 35 mg/L
Heptane	142-82-5	1.5 mg/L	No data available	Aquatic LC50 (96h) 375 mg/L
Acetone	67-64-1	10294 - 17704 mg/L	7500 mg/L	Aquatic LC50 (96h) 6210 mg/L

Persistence and degradability: Biodegrades quickly.

Bioaccumulative potential: Bioconcentration may occur.

Mobility in soil: This material is expected to have essentially no mobility in soil. It absorbs strongly to most soil types.

Other adverse effects (such as hazardous to the ozone layer): No data available

13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging: Dispose of contents and container in accordance with local/regional/national/international regulations.

Waste codes / waste designations: D001

Contaminated packaging: Empty containers may contain residues. Dispose of in the same way as waste product.

14. Transport information

Carriage of dangerous goods by road (DOT), rail or inland waterways:

DOT Basic Description: UN1950, AEROSOLS, 2.1, LTD QTY

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International carriage of dangerous goods by sea (IMDG/IMO):

UN number: UN1950
UN Proper shipping name: AEROSOLS
Transport hazard class(es): 2.1
Packing group, if applicable: Not applicable
Exception: LTD QTY
EMS#: F-D,S-U

International carriage of dangerous goods by air (IATA):

UN number: UN1950
UN Proper shipping name: AEROSOLS
Transport hazard class(es): 2.1
Packing group, if applicable: Not applicable

Environmental hazards (e.g., Marine pollutant (Yes/No)): Yes

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): No data available

Special precautions which a user needs to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises: No data available

15. Regulatory information

Safety, health and environmental regulations specific for the product in question:

TSCA Status: All components of this material are on the US TSCA Inventory or are exempt.

Regulated Components:

Chemical Name	CAS #	CERCLA	Sara EHS	Sara 313	U.S. HAP
Acetone	67-64-1	Y	N	N	N
Heptane	142-82-5	N	N	N	N
Carbon dioxide	124-38-9	N	N	N	N

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Isopropanol	67-63-0	N	N	Y	N
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Chemical Name	CAS #	California Prop 65 - Cancer	California Prop 65 - Dev. Toxicity	California Prop 65 - Reprod fem	California Prop 65 - Reprod male
Acetone	67-64-1	N	N	N	N
Heptane	142-82-5	N	N	N	N
Carbon dioxide	124-38-9	N	N	N	N
Isopropanol	67-63-0	N	N	N	N

Chemical Name	CAS #	Massachusetts RTK List	New Jersey RTK List	Pennsylvania RTK List	Rhode Island RTK List	Minnesota Hazardous Substance List
Acetone	67-64-1	Y	Y	Y	N	Y
Heptane	142-82-5	Y	Y	Y	N	Y
Carbon dioxide	124-38-9	Y	Y	Y	N	Y
Isopropanol	67-63-0	Y	Y	Y	N	Y

16. Other information, including date of preparation or last revision.

SDS Prepared by:

HAZEMS

Revision Date:

06-06-2017

Revision Number:

16

Reason for revision:

Activated by Document Formulation Generation

References:

No data available

Other Info:

No data available

Disclaimer:

This safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in the data sheet which we have received from outside sources and we believe the information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product in a safe manner and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.

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