



McLube Division
McGee Industries, Inc.

MATERIAL SAFETY DATA SHEET
MAC-971

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07/09/2007

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer's Name and Address:	Telephone Numbers:
McGee Industries, Inc.	Emergency - Business Hours: (800) 262-5823
9 Crozerville Road	Emergency - After Hours: (800) 424-9300
P. O. Box 2425	Company Phone Number: (610) 459-1890
Aston, PA 19014-0425	Company Facsimile: (610) 459-9538
Product or Trade Name:	MSDS Revisions: See section 16
MAC 971	MSDS Issue Date: 07/09/2007
Chemical Name and Synonyms:	Supersedes Date: 07/09/2007
Mold Release	

SECTION 2 HAZARDS IDENTIFICATION

Emergency Overview

Appearance/Odor: Colorless liquid, light hydrocarbon odor.
WARNING
Extremely flammable. Vapors may travel considerable distances to ignition sources and flash back.

OSHA Status

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

Potential Health Effects

Likely Routes of Exposure: Eye contact, skin contact, inhalation.

Eye: Mild irritation.

Skin: Mild irritation.

Ingestion: Low oral toxicity.

Inhalation: Prolonged breathing of high concentrations of vapor may cause drowsiness and irritation.

Chronic Effects: Prolonged and/or repeated contact may cause skin irritation and inflammation. Chronic effects of ingestion and subsequent aspiration into the lungs may cause pneumatocele (lung cavity) formation and chronic lung dysfunction. Repeated or prolonged overexposure to solvents may cause brain or other nervous system damage.

Signs & Symptoms of Exposure: Symptoms of skin exposure can include defatting, redness, blistering, lesions and scaly dermatitis. Symptoms can include the loss of memory, the loss of intellectual capacity and the loss of coordination.

Target Organs: Kidneys, liver, upper respiratory tract, skin

Carcinogenicity: None of the components in this product is listed by IARC, NTP, or OSHA as a carcinogen.

Potential Environmental Effects None known

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

<u>Hazardous Component</u>	<u>CAS#</u>	<u>% By Wt.</u>
Heptane*	Mixture	93-98
*Composition of Heptane:		
Heptane, all isomers	mixture	70-90
Octane, all isomers	mixture	1-10
Methylcyclohexane	108-87-2	1-10



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Nonane, all isomers	mixture	1-10
<u>Nonhazardous Component</u>		
Release mixture	N/A	1-3

Amounts listed are typical and do not represent a specification. Remaining components are proprietary, nonhazardous, and/or present at amounts below reportable limits.

SECTION 4 FIRST AID MEASURES

Eye Contact:	Flush with water. Call a physician.
Skin Contact:	Wash off in flowing water.
Inhalation:	Remove to fresh air. Call a physician.
Ingestion:	Do not induce vomiting. Call a physician.

SECTION 5 FIRE FIGHTING MEASURES

Refer to Section 9 for flash point and flammable (explosive) limits

Flammable Properties:	Flammable liquid and vapor - keep away from flames and other ignition sources.
Suitable Extinguishing Media:	Water spray, CO ₂ or dry chemical.
Unsuitable Extinguishing Media:	Do not use a solid stream of water directly on the fire as the water may spread the fire to a larger area.
Special Fire Fighting Procedures:	In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.
Unusual Fire and Explosion Hazards:	Extremely flammable. Vapors may travel considerable distances to ignition sources and flash back. Hazardous gases can be produced requiring respirator. Material is extremely flammable and can be ignited by heat, sparks, flames or other ignition sources such as static electricity, pilot lights or mechanical or electrical equipment.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Use personal protection recommended in Section 8.
Methods for Containment:	Eliminate ignition sources. Soak up with inert absorbent such as sand, earth or vermiculite.
Methods for Clean-Up:	Put in closed container for prompt disposal.

SECTION 7 HANDLING AND STORAGE

Handling:	Contents may be under pressure; open containers slowly to release pressure. When transferring products, follow proper grounding procedures. Empty containers retain product residue; follow label warnings even after container is emptied; residual vapors may explode on ignition; do not cut, drill or weld on or near container. Keep away from flames and other ignition sources.
Storage:	Keep containers closed.



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SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

<u>Component</u>	<u>ACGIH</u> <u>TWA</u>	<u>OSHA</u> <u>TLV</u>
Heptane*	400 ppm	
*Composition of Heptane:		
Heptane, all isomers	400 ppm	
Octane, all isomers	300 ppm	
Methylcyclohexane	400 ppm	
Nonane, all isomers	200 ppm	
Engineering Controls:	Provide ventilation to control vapor to standard, OSHA standard 370 ppm.	
Eye/Face Protection:	Avoid contact with eyes. Safety glasses recommended.	
Skin Protection:	Avoid contact with skin. Impermeable gloves recommended. Boots and apron recommended depending on extent or severity of exposure.	
Respiratory Protection:	Avoid breathing vapor. In absence of environmental control, approved organic vapor-type respirator.	
General Hygiene Considerations:	Wash hands thoroughly after handling.	
Other:	Personal protection to be determined by user depending on use conditions.	

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Color:	Colorless
Odor:	Light hydrocarbon odor
Odor Threshold:	Not applicable
Physical State:	Liquid
pH:	Not applicable
Melting Point (solids):	Not applicable
Boiling Point (@ 760 mm Hg):	195-232°F (91-111°C)
Flash Point (test method):	15°F (-9°C) (TCC)
Flammability:	Extremely flammable
Upper Flammability Limit (Vol. % @ 100°F (38°C)):	7
Lower Flammability Limit (Vol. % @ 100°F (38°C)):	1
Vapor Pressure (mm Hg @ 68°F (20°C)):	78
Vapor Density (Air=1):	Approximately 3.4
Specific Gravity:	0.71
Solubility in Water (% by Wt.):	Nil
Partition Coefficient:	Not applicable
Auto-ignition Temperature:	475°F (246°C)
Decomposition Temperature:	Not applicable
% Volatiles by Weight:	93-98
Evaporation Rate (Butyl acetate=1):	3.4

SECTION 10 STABILITY AND REACTIVITY

Stability:	Stable.
Incompatible Materials:	Oxidizing agents.
Hazardous Decomposition Products:	Carbon dioxide, carbon monoxide and small quantities of silicon dioxide.
Polymerization:	Will not occur.



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SECTION 11 TOXICOLOGICAL INFORMATION

For n-Heptane: Inhalation rat LC₅₀: 103 gm/m³/4H
Inhalation: Exposure Limit: 400 ppm

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: Ecotoxicity data are not available for this product.
Environmental Fate: This mixture will normally float on water with its lighter components evaporating rapidly

SECTION 13 DISPOSAL CONSIDERATIONS

Incinerate in compliance with local, state and federal regulations.

SECTION 14 TRANSPORTATION INFORMATION

US DOT (ground)

Proper Shipping Name: Heptane mixture
Hazard Class: 3
UN Number: UN1206
Packing Group: II

Canadian TDG (ground)

Proper Shipping Description: See US DOT

ICAO (air)

Proper Shipping Description: See US DOT

IMDG (water)

Proper Shipping Description: See US DOT

SECTION 15 REGULATORY INFORMATION

SARA Title III Section 313 Information

<u>Component</u>	<u>CAS #</u>	<u>% by Wt.</u>
None		

Toxic Substances Control Act (TSCA)

This product and/or its components are listed on the TSCA inventory.

SECTION 16 OTHER INFORMATION

HMIS Rating System

Health - 1 Flammability - 3 Reactivity - 0

MSDS Revision Information

07/09/2007 New

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.



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Product or Trade Name: MAC-973	MSDS Revisions: See section 16
Chemical Name and Synonyms: Water-Based Mold Release	MSDS Issue Date: 07/17/2007 Supersedes Date: New

SECTION 2 HAZARDS IDENTIFICATION

Emergency Overview

Appearance/Odor: White emulsion with little odor.

OSHA Status

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Health Effects

Likely Routes of Exposure: Eye contact, skin contact, inhalation.

Eye: Mild irritation.

Skin: Mild irritation.

Ingestion: Low oral toxicity.

Inhalation: None known.

Target Organs: None known.

Carcinogenicity: None of the components in this product is listed by IARC, NTP, or OSHA as a carcinogen.

Potential Environmental Effects None known.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

<u>Hazardous Component</u>	<u>CAS#</u>	<u>% By Wt.</u>
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None	-	-
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Nonhazardous Component

Water	7732-18-5	95-99
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Amounts listed are typical and do not represent a specification. Remaining components are proprietary, nonhazardous, and/ or present at amounts below reportable limits.

SECTION 4 FIRST AID MEASURES

Eye Contact: Flush with water for at least 15 minutes. Call a physician.

Skin Contact: Wash affected parts with soap and water.

Inhalation: None known.

Ingestion: If swallowed, do not induce vomiting. Call a physician.

SECTION 5 FIRE FIGHTING MEASURES

Flammable Properties: Not applicable. Product is an aqueous solution.

Suitable Extinguishing Media: Not applicable. Product is an aqueous solution.

Special Fire Fighting Procedures: Not applicable.

Unusual Fire and Explosion Hazards: None.



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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8.
Methods for Containment: Soak up with inert absorbent such as sand, earth or vermiculite.
Methods for Clean-Up: Put in closed container for prompt disposal.

SECTION 7 HANDLING AND STORAGE

Handling: No special precautions.
Storage: Avoid freezing temperatures.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines: ACGIH TLV
Component TWA
Water Not applicable.
Engineering Controls: General ventilation adequate.
Eye/Face Protection: Safety glasses recommended.
Skin Protection: Impermeable gloves recommended.
Respiratory Protection: None known.
General Hygiene Considerations: Use good personal hygiene practices.
Other: Personal protection to be determined by user depending on use conditions.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Color: White
Odor: Slight odor
Physical State: Liquid
Melting Point (solids): Not Applicable
Boiling Point (@ 760 mm Hg): 212°F (100°C)
Flash Point (test method): None
Flammability: Non-Flammable
Upper Flammability Limit: Not Applicable
Lower Flammability Limit: Not Applicable
Vapor Pressure (mm Hg @ 77°F (25°C)): 24
Vapor Density (Air=1): <1
Specific Gravity: 1.0
Solubility in Water (% by Wt.): Completely extendible with water
% Volatiles by Weight: 95-99
Evaporation Rate (Water=1): 1

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable.
Incompatible Materials: None.
Hazardous Decomposition Products: Small quantities of carbon dioxide, carbon monoxide, and silicon dioxide.
Polymerization: Will not occur.



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SECTION 11 TOXICOLOGICAL INFORMATION

Data not available for this product.

SECTION 12 ECOLOGICAL INFORMATION

Data not available for this product.

SECTION 13 DISPOSAL CONSIDERATIONS

Send to approved landfill in compliance with local, state and federal regulations.

SECTION 14 TRANSPORTATION INFORMATION

US DOT (ground)

Proper Shipping Name: Not Regulated
Hazard Class:
UN Number:
Packing Group:

Canadian TDG (ground)

Proper Shipping Description: See US DOT

ICAO (air)

Proper Shipping Description: See US DOT

IMDG (water)

Proper Shipping Description: See US DOT

SECTION 15 REGULATORY INFORMATION

Toxic Substances Control Act (TSCA)

This product and/or its components are listed on the TSCA inventory.

SECTION 16 OTHER INFORMATION

HMIS Rating System

Health - 1 Flammability - 0 Reactivity - 0

MSDS Revision Information

07/17/2007 Modified to conform to 16 part format of ANSI Standard Z400.1-2004

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

