

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : MFI Metal Magic Foaming Burnishing Compound
Product code : 100059

1.2. Recommended use and restrictions on use

1.3. Supplier

Lubrication Technologies, Inc
900 Mendelssohn Ave N
Golden Valley, MN 55427 - USA
T 763-545-0707
www.lubetech.com

1.4. Emergency telephone number

Emergency number : 1-800-424-9300 (CHEMTREC)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquids Category 2	H225	Highly flammable liquid and vapor
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage
Carcinogenicity Category 2	H351	Suspected of causing cancer
Hazardous to the aquatic environment - Acute Hazard Category 3	H402	Harmful to aquatic life

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

: Danger

Hazard statements (GHS US) :

: H225 - Highly flammable liquid and vapor
H315 - Causes skin irritation
H318 - Causes serious eye damage
H351 - Suspected of causing cancer
H402 - Harmful to aquatic life

Precautionary statements (GHS US) :

: P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground/Bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P264 - Wash hands, forearms and face thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - If on skin: Wash with plenty of water.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

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skin with water/shower.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P310 - Immediately call a poison center or doctor.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use media other than water to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
COCOAMIDE DEA	(CAS-No.) 68603-42-9	5 – 10	Skin Irrit. 2, H315 Carc. 2, H351 Aquatic Acute 2, H401
SULFURIC ACID, MONO-C10-16-ALKYL ESTERS, SODIUM SALTS	(CAS-No.) 68585-47-7	1 – 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
ISOPROPYL ALCOHOL	(CAS-No.) 67-63-0	1 – 5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304
DIETHANOLAMINE	(CAS-No.) 111-42-2	0.5 – 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 Aquatic Acute 2, H401

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor/physician if you feel unwell. First aider: Pay attention to self-protection!.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Seek medical attention if ill effect or irritation develops.
- First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water. Seek medical attention if ill effect or irritation develops.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Do not induce vomiting. Rinse mouth. If you feel unwell, seek medical advice.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.
- Symptoms/effects after skin contact : Irritation.
- Symptoms/effects after eye contact : Serious damage to eyes.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapor. The vapors are denser than air and may travel along the ground. Distance ignition possible.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Evacuate area. Use water spray or fog for cooling exposed containers. Eliminate all ignition sources if safe to do so. Fight fire from safe distance and protected location. In case of fire: Stop leak if safe to do so.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : High temperature decomposition products are harmful by inhalation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Eliminate every possible source of ignition. Evacuate area. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

6.1.1. For non-emergency personnel

Protective equipment : Avoid contact with skin, eyes and clothing. Wear recommended personal protective equipment.

Emergency procedures : No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Evacuate unnecessary personnel. Do not breathe vapors.

6.1.2. For emergency responders

Protective equipment : Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

6.2. Environmental precautions

Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Notify authorities if product enters sewers or public waters. This material and its container must be disposed of in a safe way, and as per local legislation. Clear up rapidly by scoop or vacuum.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Ensure good ventilation of the work station. Do not breathe vapors.

Handling temperature : ≤ 140 °F

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wear personal protective equipment. Take off immediately all contaminated clothing and wash it before reuse. Separate working clothes from town clothes. Launder separately.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep only in original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [1]	5 mg/m ³ Contains highly refined petroleum oil
OSHA PEL (STEL) [1]	10 mg/m ³ Contains highly refined petroleum oil
ISOPROPYL ALCOHOL (67-63-0)	
USA - ACGIH - Occupational Exposure Limits	
Local name	2-Propanol
ACGIH OEL TWA [ppm]	200 ppm
ACGIH OEL STEL [ppm]	400 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2019
USA - OSHA - Occupational Exposure Limits	
Local name	Isopropyl alcohol
OSHA PEL (TWA) [1]	980 mg/m ³
OSHA PEL (TWA) [2]	400 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
COCOAMIDE DEA (68603-42-9)	
No additional information available	
DIETHANOLAMINE (111-42-2)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	1 mg/m ³ (Inhalable fraction and vapor)
SULFURIC ACID, MONO-C10-16-ALKYL ESTERS, SODIUM SALTS (68585-47-7)	
No additional information available	

8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
- Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Protective gloves. nitrile rubber gloves

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing. Wear impervious rubber safety shoes. Chemical resistant apron

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Yellow
Odor	: slight

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Odor threshold	: No data available
pH	: 8.4 – 8.7 1% Vol: 7.5 - 8.5
Melting point	: No data available
Freezing point	: No data available
Boiling point	: ≈ 93.3 °C
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.0061 – 1.01 @ 15.6C
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
No data available	Viscosity, kinematic : No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

VOC content : < 4 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapor. The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition. High temperature.

10.5. Incompatible materials

Acids. Oxidizing agent.

10.6. Hazardous decomposition products

fume. Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

COCOAMIDE DEA (68603-42-9)

LD50 oral rat	> 5000 mg/kg (Rat, Oral)
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DIETHANOLAMINE (111-42-2)

LD50 oral rat	1600 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
ATE US (oral)	1600 mg/kg body weight

SULFURIC ACID, MONO-C10-16-ALKYL ESTERS, SODIUM SALTS (68585-47-7)

ATE US (oral)	500 mg/kg body weight
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Skin corrosion/irritation	: Causes skin irritation. pH: 8.4 – 8.7 1% Vol: 7.5 - 8.5
Serious eye damage/irritation	: Causes serious eye damage. pH: 8.4 – 8.7 1% Vol: 7.5 - 8.5
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.

ISOPROPYL ALCOHOL (67-63-0)

IARC group	3 - Not classifiable
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COCOAMIDE DEA (68603-42-9)

IARC group	2B - Possibly carcinogenic to humans
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DIETHANOLAMINE (111-42-2)

IARC group	2B - Possibly carcinogenic to humans
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Reproductive toxicity : Not classified

STOT-single exposure : Not classified

ISOPROPYL ALCOHOL (67-63-0)

STOT-single exposure	May cause drowsiness or dizziness.
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SULFURIC ACID, MONO-C10-16-ALKYL ESTERS, SODIUM SALTS (68585-47-7)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Serious damage to eyes.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life.

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LC50 - Fish [1]	> 100 mg/l
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LC50 - Other aquatic organisms [1]	> 100 mg/l
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COCOAMIDE DEA (68603-42-9)

LC50 - Fish [1]	4 mg/l (96 h, Brachydanio rerio, Semi-static system)
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EC50 - Crustacea [1]	2.39 mg/l (48 h, Daphnia pulex)
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DIETHANOLAMINE (111-42-2)

LC50 - Fish [1]	460 mg/l (96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration)
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EC50 - Crustacea [1]	30.1 – 89.9 mg/l (ASTM E729-80, 48 h, Ceriodaphnia dubia, Static system, Fresh water, Experimental value, Locomotor effect)
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ErC50 algae	9.5 mg/l (EPA 600/9-78-018, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
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12.2. Persistence and degradability

COCOAMIDE DEA (68603-42-9)

Persistence and degradability	Readily biodegradable in water.
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DIETHANOLAMINE (111-42-2)

Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
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Biochemical oxygen demand (BOD)	0.22 g O ₂ /g substance
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DIETHANOLAMINE (111-42-2)

Chemical oxygen demand (COD)	1.52 g O ₂ /g substance
ThOD	2.13 g O ₂ /g substance

12.3. Bioaccumulative potential

COCOAMIDE DEA (68603-42-9)

Partition coefficient n-octanol/water (Log Pow)	3.52 (Calculated)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

DIETHANOLAMINE (111-42-2)

BCF - Fish [1]	3.162 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	-2.18 – -1.43 (Experimental value)
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

DIETHANOLAMINE (111-42-2)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.98 – 1 (log Koc, Calculated value)
Ecology - soil	Highly mobile in soil.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Flammable vapors may accumulate in the container. Clean up even minor leaks or spills if possible without unnecessary risk. Do not re-use empty containers.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

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ISOPROPYL ALCOHOL (67-63-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

COCOAMIDE DEA (68603-42-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

DIETHANOLAMINE (111-42-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313
Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ 100 lb

SULFURIC ACID, MONO-C10-16-ALKYL ESTERS, SODIUM SALTS (68585-47-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

ISOPROPYL ALCOHOL (67-63-0)

Listed on the Canadian DSL (Domestic Substances List)

COCOAMIDE DEA (68603-42-9)

Listed on the Canadian DSL (Domestic Substances List)

DIETHANOLAMINE (111-42-2)

Listed on the Canadian DSL (Domestic Substances List)

SULFURIC ACID, MONO-C10-16-ALKYL ESTERS, SODIUM SALTS (68585-47-7)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

COCOAMIDE DEA (68603-42-9)

Listed on IARC (International Agency for Research on Cancer)

DIETHANOLAMINE (111-42-2)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

COCOAMIDE DEA (68603-42-9)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		

DIETHANOLAMINE (111-42-2)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		

SECTION 16: Other information

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Full text of H-phrases:

H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H401	Toxic to aquatic life
H402	Harmful to aquatic life

NFPA health hazard

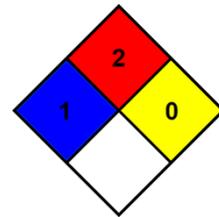
: 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard

: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health

: 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability

: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection

: B

B - Safety glasses, Gloves

SDS US (GHS HazCom 2012) Correction section 15

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.