

# Foaming Metal Detailer

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations



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### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : Foaming Metal Detailer

#### 1.2. Recommended use and restrictions on use

Recommended use : Auto care product

#### 1.3. Supplier

Griot's Garage Inc.  
3333 South 38th Street, Tacoma, WA 98409  
2185 Airwest Blvd., Plainfield, IN 46168  
Telephone: 800-345-5789  
Fax: 888-252-2252  
Email: [info@griotsgarage.com](mailto:info@griotsgarage.com)  
Website: [www.griotsgarage.com](http://www.griotsgarage.com)

#### 1.4. Emergency telephone number

Emergency number : 800-345-5789

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Flam. Aerosol 2; Liquefied gas; Eye Irrit. 2; STOT SE 3; Skin Sens. 1B ; Asp. Tox. 1

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : **DANGER**

Hazard statements (GHS-US) :

- Flammable aerosol.
- Contains gas under pressure; may explode if heated
- Causes serious eye irritation.
- May cause an allergic skin reaction.
- May be fatal if swallowed and enters airways.
- May cause drowsiness or dizziness.

Precautionary statements (GHS-US) :

- Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources.
- No smoking.
- Do not spray on an open flame or other ignition source.
- Do not pierce or burn, even after use.
- Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.
- Wear protective gloves/eye protection.
- Wash hands and exposed skin thoroughly after handling.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Contaminated work clothing should not be allowed out of the workplace.

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### 2.3. Other hazards which do not result in classification

None

### 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
Distillates (petroleum), hydrotreated light **	(CAS No) 64742-47-8 **	10 - 15	Asp. Tox. 1; H304
White Mineral Oil	(CAS No) 8042-47-5	5 - 10	Asp. Tox. 1; H304
Isopropanol	(CAS No) 67-63-0	5 - 10	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336
Propane	(CAS No) 74-98-6	1 - 5	Flam. Gas 1; H220 Liquefied gas; H280
Butane	(CAS No) 106-97-8	1 - 5	Flam. Gas 1; H220 Liquefied gas; H280
Lemon Twist	mixture	< 2	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304
Diethanolamine	(CAS No) 111-42-2	< 1	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT RE 2; H373 Aquatic Chronic 3; H412 Aquatic Acute 3; H402
diphosphoric acid sodium salt	(CAS No) 5324-84-5	< 0.1	Acute Tox. 4; H302 Eye Dam. 1; H318
Water	(CAS No) 7732-18-5	> 60	Not classified as dangerous for supply/use.
Triethanolamine	(CAS No) 102-71-6	1 - 2	Not classified as dangerous for supply/use.
Sorbitan monooleate	(CAS No) 1338-43-8	1 - 2	Not classified as dangerous for supply/use
Polydimethylsiloxane Fluid	(CAS No) 63148-62-9	< 1	Not classified as dangerous for supply/use.

**Additional Information** - Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below: **None**

\* The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.

\*\*Dearomatized. Contains <2% aromatic hydrocarbons.

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Not normally required. If symptoms occur obtain medical attention.
First-aid measures after skin contact	: Wash affected skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: Do not give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell. Do NOT induce vomiting.

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

Contains: Citrus oils - May produce an allergic reaction in persons already sensitised. Aspiration of droplets may cause pulmonary oedema. Causes serious eye irritation.

### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Extinguish with carbon dioxide, dry chemical, foam or water spray.

Unsuitable extinguishing media : Do not use water jet.

### 5.2. Specific hazards arising from the chemical

Contains gas under pressure; may explode if heated. Leaking containers may release flammable gases that can accumulate in poorly ventilated areas.

### 5.3. Special protective equipment and precautions for fire-fighters

**Advice for fire-fighters** A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Avoid breathing vapors.

### 6.2. Environmental precautions

Prevent release to the environment.

### 6.3. Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.

### 6.4. Reference to other sections

None.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid breathing vapors.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage temperature : Keep in a cool, well ventilated place. Store at temperatures not exceeding 50 °C / 122 °F.

Incompatible materials : This product should be stored away from sources of strong heat or oxidizing chemicals.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Mineral oils / Oil Mist	-----	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup> <sup>(l)</sup>	-----	-----	<sup>(l)</sup>
C <sub>9</sub> -C <sub>15</sub> Alkanes & Cycloalkanes	Mixture	-----	1200 mg/m <sup>3</sup>	-----	-----	-----
Isopropanol	67-63-0	400 ppm	200 ppm	500 ppm	400 ppm	-----
Propane	74-98-6	1000 ppm	Aspyx. <sup>#</sup>	-----	-----	<sup>#</sup>
n-Butane	106-97-8	-----	250 ppm	-----	-----	-----
Triethanolamine	102-71-6	-----	5 mg/m <sup>3</sup>	-----	-----	-----
Diethanolamine	111-42-2	-----	1 mg/m <sup>3</sup> <sub>(IFV)</sub>	-----	-----	A3

<sup>#</sup>Assure minimum oxygen content of work atmosphere.; <sup>(l)</sup> Inhalable fraction

**Recommended monitoring method** NIOSH 1500 (hydrocarbons, B.P. 36 - 126 °C)

### 8.2. Appropriate engineering controls

**Appropriate engineering controls** Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded.

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### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

##### Hand Protection:

Wear suitable gloves if prolonged skin contact is likely. Check with protective equipment manufacturer's data. Use gloves only once.

##### Eye protection:

Wear protective eyewear (goggles, face shield, or safety glasses).

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Check with protective equipment manufacturer's data.

##### Thermal Hazards:

Not normally needed. Use gloves with insulation for thermal protection, when needed.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	Aerosol
Color.	Not available
Odor	Not available
Odor Threshold (ppm)	Not available
pH (Value)	Not available
Melting Point (°C) / Freezing Point (°C)	Not available
Boiling point/boiling range (°C):	Not available
Flash Point (°C)	-104 (Propane)
Evaporation Rate	Not available
Flammability (solid, gas)	Contains: Extremely flammable gas.
Explosive Limit Ranges	2.1% - 9.5% v/v (Propane)
Vapor pressure (Pascal)	ca. $95 \times 10^4$ (Propane)
Vapor Density (Air=1)	ca. 1.56 @ 0°C (Propane)
Density (g/ml)	Not available
Solubility (Water)	Not available
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	450 (Propane)
Decomposition Temperature (°C)	Not available
Kinematic Viscosity	<20 cSt
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions of storage and use.

### 10.3. Possibility of hazardous reactions

None anticipated.

### 10.4. Conditions to avoid

Avoid contact with heat and ignition sources.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Carbon monoxide, Carbon dioxide, Acrid smoke.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Exposure routes:** Inhalation, Skin Contact, Eye Contact

#### Information on toxicological effects

Propane (CAS# 74-98-6):

**Acute toxicity** Inhalation: LC50 = 1237 mg/L (2-hr, mouse, gas)  
**Irritation/Corrosivity** No evidence of irritant effects from normal handling and use.  
**Sensitisation** It is not a skin sensitiser.  
**Repeated dose toxicity** NOAEC:  $\geq$ 19678 mg/m<sup>3</sup> (28-day, rat, Systemic effects)  
LOAEC: 21641 mg/m<sup>3</sup> (28-day, rat, effects: Body weight)  
**Carcinogenicity** No data. It is unlikely to present a carcinogenic hazard to man.  
**Mutagenicity** There is no evidence of mutagenic potential.  
**Reproductive toxicity** None anticipated

Isopropanol (CAS No. 67-63-0):

**Acute toxicity** Oral: LD50 5840 = mg/kg (rat)  
Inhalation: LC50 > 10000 ppm (6-hr, rat, Vapour) May cause drowsiness or dizziness.  
**Irritation/Corrosivity** Dermal: LD50 > 16.4 ml/kg  
Causes serious eye irritation.  
**Sensitization** It is not a skin sensitizer.  
**Repeated dose toxicity** NOEC:500 ppm (104-week(s)) (rat)  
NOAEC: 5000 ppm (104-week(s), rat, Systemic effects)  
**Carcinogenicity** No evidence of carcinogenicity. NOEL: 5000 ppm

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

**Mutagenicity** There is no evidence of mutagenic potential.  
**Reproductive toxicity** None anticipated

Diethanolamine (CAS No. 111-42-2):

**Acute toxicity** Oral: LD50 = 1600 mg/kg (male/female rat)  
Inhalation: LC0 (8-hr) > 0.2 mg/l (Vapour, guinea pig)  
**Irritation/Corrosivity** Causes skin irritation. Causes serious eye damage.  
**Sensitisation** It is not a skin sensitiser.  
**Repeated dose toxicity** LOAEL: 104-142 mg/kg bw/day (13 lweek(s), rat, Systemic effects)  
NOAEC: 3 mg/m<sup>3</sup> (28-day, rat, Local effects)  
LOAEL: 32 mg/kg bw/day (13 lweek(s), rat, haematological changes, nephropathy and hyperkeratosis of the skin)  
**Carcinogenicity** LOAEL: 40 mg/kg bw/day, 2 Year(s) - Probably not carcinogenic to humans.

NTP	IARC	ACGIH	OSHA
No.	2B	A3	No.

**Mutagenicity** There is no evidence of mutagenic potential.  
**Reproductive toxicity** None anticipated

**Additional Information** Contains: Citrus oils - May cause an allergic skin reaction.

### SECTION 12: Ecological information

#### 12.1. Toxicity

#### Ecotoxicity

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Short term	Not to be expected.
Long Term	Not to be expected.

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

##### Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

### SECTION 14: Transport information

	<u>U.S. DOT</u>	<u>Sea transport (IMDG)</u>	<u>Air transport (ICAO/IATA)</u>
UN number	1950	1950	1950
Proper Shipping Name	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable
Transport hazard class(es)	2.1	2.1	2.1
Packing group	Not applicable	Not applicable	Not applicable
Environmental hazards	None assigned	None assigned	None assigned
Special precautions for user	None assigned	None assigned	None assigned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

Safety, health, and environmental regulations/legislation specific for the substance or mixture:

**TSCA (Toxic Substance Control Act)** - Inventory Status: All components listed or polymer exempt.

**Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):** None

**SARA 311/312 - Hazard Categories:** See SECTION 2 - HAZARDS IDENTIFICATION

**SARA 313 - Toxic Chemicals (40 CFR 372):** None

**SARA 302 - Extremely Hazardous Substances(40 CFR 355):** None

### SECTION 16: Other information

Other information : None.

**Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:**

#### Hazard Statement(s)

- H220: Extremely flammable gas.
- H225: Highly flammable liquid and vapour.
- H226: Flammable liquid and vapour.
- H280: Contains gas under pressure; may explode if heated.
- H302: Harmful if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H319: Causes serious eye irritation.
- H336: May cause drowsiness or dizziness..
- H373: May cause damage to organs through prolonged or repeated exposure:
- H402: Harmful to aquatic life.
- H412: Harmful to aquatic life with long lasting effects.

*The data presented here relates only to the specific material designated herein and does not relate to use in combination with any other materials or in any process. The information set forth above is based on technical data believed to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside our control, no warranties, expressed or implied are made, and no liability is assumed in connection with any use of this information. Judgments as to the suitability of this information for the user's purposes are necessarily the user's responsibility. Although reasonable care has been taken in the preparation of this information, no responsibility is assumed as to the accuracy or suitability of this information for its application to the user's intended purpose or for consequences of its use.*