

# SAFETY DATA SHEET

### 1. Identification

**Product identifier Gunk Engine Cleaner - Foamy** 

Other means of identification

FEB1 SDS number

Part No. FEB1, FEB1/6 Tariff code 3402.20.5100 Recommended use **Engine Cleaner Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name **Blaster LLC** 

**Address** 

8500 Sweet Valley Drive Valley

View, Ohio 44125 - USA Telephone

T(216)901-5800

F (216)901-5801 Website

www.blastercorp.com

**Emergency phone number** 

Chemtrec (800) 424-9300

## 2. Hazard(s) identification

Physical hazards Flammable aerosols Classification not possible

Health hazards Acute toxicity, oral Category 4

Skin corrosion/irritation Category 2 Germ cell mutagenicity Category 1B Carcinogenicity Category 1A Aspiration hazard Category 1

**Environmental hazards** Hazardous to the aquatic environment, acute Category 3

hazard

Hazardous to the aquatic environment,

Category 3

long-term hazard

**OSHA** defined hazards Not classified.

Label elements



Signal word

Pressurized container: May burst if heated. May be fatal if swallowed and enters airways. Causes **Hazard statement** skin irritation. May cause an allergic skin reaction. May cause genetic defects. May cause cancer.

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

**Precautionary statement** 

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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 mist/vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Material name: Gunk Engine Cleaner - Foamy

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If swallowed: Immediately call a poison center/doctor. Rinse mouth. Do NOT induce vomiting. If Response on skin: Wash with plenty of water. If exposed or concerned: Get medical advice/attention. If skin

irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash

before reuse.

Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. **Storage** 

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

Hazard(s) not otherwise classified (HNOC)

GHS Level 3 Non-flammable aerosol (version 7 - July 2017)

Supplemental information NOTE: This product is a consumer product and is labeled in accordance with the US Consumer

Product Safety Commission regulations which take precedence over OSHA Hazard

Communication labeling. The container label may not include the OSHA label elements listed in this document. Always carefully review the entire SDS and the product label prior to use in the

workplace.

# 3. Composition/information on ingredients

#### **Mixtures**

7732-18-5 68476-86-8 64742-94-5	70 - < 80 5 - < 10 3 - < 5
64742-94-5	3 - < 5
8008-20-6	1 - < 3
527-53-7	< 1
105-05-5	< 1
111-76-2	< 1
110-91-8	< 1
112-80-1	< 1
31138-65-5	< 1
98-06-6	< 1
488-23-3	< 0.3
91-20-3	< 0.3
526-73-8	< 0.2
95-63-6	< 0.2
496-11-7	< 0.2
1074-43-7	< 0.2
102-71-6	< 0.2
141-93-5	< 0.1
98-82-8	< 0.1
111-42-2	< 0.1
25340-17-4	< 0.1
107-15-3	< 0.1
109-86-4	< 0.1
100-74-3	< 0.1
	527-53-7 105-05-5 111-76-2 110-91-8 112-80-1 31138-65-5 98-06-6 488-23-3 91-20-3 526-73-8 95-63-6 496-11-7 1074-43-7 102-71-6 141-93-5 98-82-8 111-42-2 25340-17-4 107-15-3 109-86-4

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

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

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders. Seek medical attention and take along these instructions. Wash

contaminated clothing before reuse.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If Ingestion

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

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Most important symptoms/effects, acute and delayed

Aspiration may cause pulmonary edema and pneumonitis. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information** 

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

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 or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

media

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.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapor. 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.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Put material in suitable, covered, labeled containers. 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.

## 7. Handling and storage

## Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

# Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 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. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

## Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

110	OSHA Table	7-1 Limite	for Air	<b>Contaminants</b>	/20 CED	1010 1000)
US.	OSHA Table	Z-I LIMITS	TOT AIT	Contaminants	129 CFR	1910.10001

11-76-2	Components	Туре	Value	
29-15 Heavy Aromatic   PEL   400 mg/m3   100 ppm   100	Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3	
Address   Addr			50 ppm	
Pel	C9-15 Heavy Aromatic Hydrocarbons (CAS 64742-94-5)	PEL	400 mg/m3	
So ppm   S			100 ppm	
### PEL 25 mg/m3 #### Or-15-3) ### 10 ppm #### Acthoxyethanol (CAS 09-86-4) ### Acthoxyethanol (CAS 09-86-4) ### Acthoxyethanol (CAS 110-91-8) ### Acthoxyethanol (CAS 110-91-8) ### Acthoxyethanol (CAS 110-91-8) ### Acthoxyethanol (CAS 110-91-8) ### Acthoxyethanol (CAS 91-20-3) ### Acthoxyethanol (CAS 91-20-3) ### PEL	Cumene (CAS 98-82-8)	PEL	245 mg/m3	
10 pm			50 ppm	
Methoxyethanol (CAS   PEL   80 mg/m3   25 ppm   25 ppm   25 ppm   30 mg/m3   20 ppm   30 mg/m3   20 ppm   30 mg/m3   20 ppm   30 mg/m3   20 ppm   30 mg/m3   30 ppm   30 mg/m3   30 ppm   30 mg/m3   30 ppm   30	Ethylenediamine (CAS 107-15-3)	PEL	25 mg/m3	
09-86-4			10 ppm	
Archyholine (CAS 110-91-8)  Archyholine (CAS 110-91-8)  Archyholine (CAS 91-20-3)  Archyholine (CAS 91-20-3)  PEL  50 mg/m3  10 ppm  94 mg/m3  20 ppm   JS. ACGIH Threshold Limit Values  Components  Type  Value  Form  2.3-Trimethylbenzene  CAS 526-73-8)  Sutoxyethanol (CAS  29 ppm  Archydrocarbons (CAS  20 ppm  TWA  20 ppm  11-76-2)  Sutoxyethanol (CAS  TWA  20 ppm  11-76-3)  Cumene (CAS 98-82-8)  TWA  50 ppm  Inhalable fraction and vapor.  Lithylenediamine (CAS  TWA  10 ppm  70 ppm  Archydrocarbons (CAS  TWA  10 ppm  Archydrocarbons (CAS  TWA  TWA  Archydrocarbons (CAS  TWA  TWA  TWA  TWA  TWA  Type  Twa  Twa  Twa  Twa  Twa  Twa  Twa  Tw		PEL	•	
Alphthalene (CAS 91-20-3)   PEL   50 mg/m3   10 ppm				
PEL   50 mg/m3   10 ppm   10	Morpholine (CAS 110-91-8)	PEL	-	
N-Ethylmorpholine (CAS   PEL   94 mg/m3   20 ppm   320				
### PEL 94 mg/m3	Naphthalene (CAS 91-20-3)	PEL	_	
100-74-3    20 ppm			• •	
State   Stat		PEL	-	
Components         Type         Value         Form           ,2,3-Trimethylbenzene CAS 526-73-8)         TWA         25 ppm           ,2,4-Trimethylbenzene CAS 95-63-0)         TWA         25 ppm           Sutoxyethanol (CAS 311-76-2)         TWA         20 ppm           C9-15 Heavy Aromatic Hydrocarbons (CAS 4742-94-5)         TWA         200 mg/m3         Non-aerosol.           Cumene (CAS 98-82-8)         TWA         50 ppm         Inhalable fraction and vapor.           Ethylenediamine (CAS 07-15-3)         TWA         10 ppm         Vapor.           Ethylenediamine (CAS 8008-20-6)         TWA         200 mg/m3         Non-aerosol.           Methoxyethanol (CAS 09-86-4)         TWA         0.1 ppm           Morpholine (CAS 110-91-8)         TWA         20 ppm           Maphthalene (CAS 91-20-3)         TWA         10 ppm           Maphthalene (CAS 91-20-3)         TWA         5 ppm           Triethanolamine (CAS         TWA         5 mg/m3			20 ppm	
				_
CAS 526-73-8)       ,2,4-Trimethylbenzene       TWA       25 ppm         CAS 95-63-6)       TWA       20 ppm         Butoxyethanol (CAS 110-91-8)       TWA       200 mg/m3       Non-aerosol.         11-76-2)       TWA       200 mg/m3       Non-aerosol.         29-15 Heavy Aromatic Hydrocarbons (CAS 14742-94-5)       TWA       50 ppm       Diethanolamine (CAS 98-82-8)       TWA       50 ppm         Diethanolamine (CAS 98-82-8)       TWA       1 mg/m3       Inhalable fraction and vapor.         Ethylenediamine (CAS 98-82-8)       TWA       10 ppm         07-15-3)       Serosene (CAS 8008-20-6)       TWA       200 mg/m3       Non-aerosol.         Methoxyethanol (CAS 98-82-8)       TWA       0.1 ppm         Methoxyethanol (CAS 110-91-8)       TWA       0.1 ppm         Morpholine (CAS 110-91-8)       TWA       20 ppm         Naphthalene (CAS 91-20-3)       TWA       10 ppm         N-Ethylmorpholine (CAS 91-20-3)       TWA       5 ppm         Triethanolamine (CAS       TWA       5 mg/m3				Form
CAS 95-63-6) Butoxyethanol (CAS TWA 20 ppm 11-76-2) C9-15 Heavy Aromatic TWA 200 mg/m3 Non-aerosol.  Hydrocarbons (CAS 4742-94-5) Cumene (CAS 98-82-8) TWA 50 ppm 50 ppm 70 ppm 7	CAS 526-73-8)			
11-76-2)         C9-15 Heavy Aromatic Hydrocarbons (CAS (4742-94-5)       TWA       200 mg/m3       Non-aerosol.         Cumene (CAS 98-82-8)       TWA       50 ppm         Diethanolamine (CAS 11-42-2)       TWA       1 mg/m3       Inhalable fraction and vapor.         Ethylenediamine (CAS 07-15-3)       TWA       10 ppm         Kerosene (CAS 8008-20-6)       TWA       200 mg/m3       Non-aerosol.         Methoxyethanol (CAS 09-86-4)       TWA       0.1 ppm         Maphthalene (CAS 110-91-8)       TWA       20 ppm         Maphthalene (CAS 91-20-3)       TWA       10 ppm         N-Ethylmorpholine (CAS 00-74-3)       TWA       5 ppm         Triethanolamine (CAS       TWA       5 mg/m3	I,2,4-Trimethylbenzene CAS 95-63-6)		25 ppm	
Hydrocarbons (CAS 64742-94-5)  Cumene (CAS 98-82-8)  Diethanolamine (CAS  Diethanolamine (CAS  TWA  TWA  1 mg/m3  Inhalable fraction and vapor.  Ethylenediamine (CAS  TWA  10 ppm  Or-15-3)  Gerosene (CAS 8008-20-6)  Methoxyethanol (CAS  TWA  Diethanolamine (CAS  TWA  TWA  200 mg/m3  Non-aerosol.  On 1 ppm  On 10 ppm  Non-aerosol.  Non-aerosol.  TWA  Diethanolamine (CAS 110-91-8)  TWA  TWA  TWA  TWA  TWA  TWA  TWA  TW	111-76-2)	TWA	20 ppm	
Diethanolamine (CAS 11-42-2)  Ethylenediamine (CAS TWA 10 ppm 07-15-3)  Kerosene (CAS 8008-20-6) TWA 200 mg/m3 Non-aerosol.  Methoxyethanol (CAS TWA 0.1 ppm 09-86-4)  Morpholine (CAS 110-91-8) TWA 20 ppm 10 ppm 1	C9-15 Heavy Aromatic Hydrocarbons (CAS 64742-94-5)	TWA	200 mg/m3	Non-aerosol.
11-42-2)       vapor.         Ethylenediamine (CAS 07-15-3)       TWA       10 ppm         Kerosene (CAS 8008-20-6)       TWA       200 mg/m3       Non-aerosol.         Methoxyethanol (CAS 09-86-4)       0.1 ppm         Morpholine (CAS 110-91-8)       TWA       20 ppm         Naphthalene (CAS 91-20-3)       TWA       10 ppm         N-Ethylmorpholine (CAS 00-74-3)       TWA       5 ppm         Triethanolamine (CAS TWA       5 mg/m3	Cumene (CAS 98-82-8)	TWA	50 ppm	
07-15-3)         Kerosene (CAS 8008-20-6)       TWA       200 mg/m3       Non-aerosol.         Methoxyethanol (CAS 09-86-4)       0.1 ppm         Morpholine (CAS 110-91-8)       TWA       20 ppm         Naphthalene (CAS 91-20-3)       TWA       10 ppm         N-Ethylmorpholine (CAS 00-74-3)       TWA       5 ppm         Triethanolamine (CAS TWA 5 mg/m3       TWA       5 mg/m3	Diethanolamine (CAS 11-42-2)	TWA	1 mg/m3	
Methoxyethanol (CAS 09-86-4) Morpholine (CAS 110-91-8) Naphthalene (CAS 91-20-3) N-Ethylmorpholine (CAS TWA 5 ppm 00-74-3) Triethanolamine (CAS TWA 5 mg/m3	Ethylenediamine (CAS 107-15-3)	TWA	10 ppm	
09-86-4)TWA20 ppmMorpholine (CAS 110-91-8)TWA10 ppmNaphthalene (CAS 91-20-3)TWA5 ppmN-Ethylmorpholine (CASTWA5 ppm00-74-3)TWA5 mg/m3	Kerosene (CAS 8008-20-6)	TWA	200 mg/m3	Non-aerosol.
Naphthalene (CAS 91-20-3)  TWA  10 ppm  TWA  5 ppm  7 iethanolamine (CAS  TWA  5 mg/m3	Methoxyethanol (CAS 109-86-4)	TWA		
N-Ethylmorpholine (CAS TWA 5 ppm 00-74-3)  Triethanolamine (CAS TWA 5 mg/m3	Morpholine (CAS 110-91-8)	TWA		
00-74-3)  Triethanolamine (CAS TWA 5 mg/m3	Naphthalene (CAS 91-20-3)	TWA	10 ppm	
	N-Ethylmorpholine (CAS 100-74-3)		5 ppm	
	Triethanolamine (CAS 102-71-6)	TWA	5 mg/m3	

Components	Туре		Val	ue	
1,2,3-Trimethylbenzene (CAS 526-73-8)	TWA		125	mg/m3	
			25 բ	ppm	
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA		125	mg/m3	
			25 բ	ppm	
Butoxyethanol (CAS 111-76-2)	TWA		24 r	ng/m3	
			5 pp	om	
Cumene (CAS 98-82-8)	TWA		245	mg/m3	
			50 բ	ppm	
Diethanolamine (CAS 111-42-2)	TWA		15 r	ng/m3	
			3 pp	om	
Ethylenediamine (CAS 107-15-3)	TWA		25 r	mg/m3	
			10 բ	ppm	
Kerosene (CAS 8008-20-6	) TWA		100	mg/m3	
Methoxyethanol (CAS 109-86-4)	TWA		0.3	mg/m3	
			0.1	ppm	
Morpholine (CAS 110-91-8	S) STEL		105	mg/m3	
			30 բ	ppm	
	TWA		70 r	ng/m3	
			20 բ	ppm	
Naphthalene (CAS 91-20-3	3) STEL		75 r	ng/m3	
			15 բ	ppm	
	TWA		50 r	mg/m3	
			10 բ	ppm	
N-Ethylmorpholine (CAS 100-74-3)	TWA		23 r	mg/m3	
·			5 pp	om	
US. Workplace Environm Components	ental Exposure Level (V Type	VEEL) Guides	Val	ue	
1,4-diethylbenzene (CAS 105-05-5)	TWA		5 pp	om	
Benzene, 1,3-diethyl- (CAS 141-93-5)	S TWA		5 թր	om	
Diethylbenzene (CAS 25340-17-4)	TWA		5 pp	om	
ogical limit values					
ACGIH Biological Exposi	ure Indices				
Components	Value	Determinant	Specimen	Sampling Time	
Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*	

\* - For sampling details, please see the source document.

Material name: Gunk Engine Cleaner - Foamy SDS US FEB1, FEB1/6 Version #: 07 Revision date: 11-17-2022 Issue date: 05-29-2015

#### **Exposure guidelines**

#### US - California OELs: Skin designation

Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

Cumene (CAS 98-82-8)

Can be absorbed through the skin.

Diethanolamine (CAS 111-42-2)

Methoxyethanol (CAS 109-86-4)

Morpholine (CAS 110-91-8)

Can be absorbed through the skin.

#### US - Minnesota Haz Subs: Skin designation applies

Butoxyethanol (CAS 111-76-2)

Cumene (CAS 98-82-8)

Methoxyethanol (CAS 109-86-4)

Morpholine (CAS 110-91-8)

N-Ethylmorpholine (CAS 100-74-3)

Skin designation applies.

Skin designation applies.

Skin designation applies.

Skin designation applies.

#### US - Tennessee OELs: Skin designation

Butoxyethanol (CAS 111-76-2)

Cumene (CAS 98-82-8)

Can be absorbed through the skin.

Methoxyethanol (CAS 109-86-4)

Morpholine (CAS 110-91-8)

Can be absorbed through the skin.

#### **US ACGIH Threshold Limit Values: Skin designation**

C9-15 Heavy Aromatic Hydrocarbons (CAS 64742-94-5) Can be absorbed through the skin. Diethanolamine (CAS 111-42-2) Can be absorbed through the skin. Ethylenediamine (CAS 107-15-3) Can be absorbed through the skin. Kerosene (CAS 8008-20-6) Can be absorbed through the skin. Methoxyethanol (CAS 109-86-4) Can be absorbed through the skin. Morpholine (CAS 110-91-8) Can be absorbed through the skin. Naphthalene (CAS 91-20-3) Can be absorbed through the skin. N-Ethylmorpholine (CAS 100-74-3) Can be absorbed through the skin.

#### US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Butoxyethanol (CAS 111-76-2)

Cumene (CAS 98-82-8)

Can be absorbed through the skin.

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

Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

Cumene (CAS 98-82-8)

Can be absorbed through the skin.

Methoxyethanol (CAS 109-86-4)

Morpholine (CAS 110-91-8)

Can be absorbed through the skin.

# Appropriate engineering

controls should be or other e

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 and safety shower.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

**Other** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece. Chemical respirator with

organic vapor cartridge and full facepiece if threshold limits are exceeded.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

# General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Keep away from food and drink. 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. Contaminated work clothing should not be allowed out of the workplace.

# 9. Physical and chemical properties

**Appearance** Liquid Hazy Liquid. Physical state **Form** Aerosol. Color Cream

Odor Sweet. Aromatic. Not available. Odor threshold

9 - 10pН

Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

> 201.0 °F (> 93.9 °C) Tag Closed Cup Flash point

**Evaporation rate** Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available.

348,27662 hPa estimated Vapor pressure

Vapor density Not available. Relative density Not available.

Solubility(ies)

Not available. Solubility (water) Not available. Partition coefficient

(n-octanol/water)

Auto-ignition temperature Not available. Not available. **Decomposition temperature** Not available. **Viscosity** 

Other information

**Density** 8.17 lbs/gal Not explosive. **Explosive properties** 

Flammability (flash back) No

Flammability class Combustible IIIB estimated

**Heat of combustion (NFPA** 

30B)

2.41 kJ/g estimated

**Oxidizing properties** Not oxidizing. Percent volatile 83.6 % estimated

Specific gravity 0.85 VOC 17.06 %

## 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

**Chemical stability** Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid Conditions to avoid

temperatures exceeding the flash point. Contact with incompatible materials.

Strong oxidizing agents. Incompatible materials

No hazardous decomposition products are known.

## 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or

vomiting may cause a serious chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics

Aspiration may cause pulmonary edema and pneumonitis. Skin irritation. May cause redness and

pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

**Acute toxicity** May be fatal if swallowed and enters airways.

Rat

Components Species Test Results

1,2,3-Trimethylbenzene (CAS 526-73-8)

Acute
Oral

1,2,4-Trimethylbenzene (CAS 95-63-6)

<u>Acute</u> Dermal

LD50

LD50 Rabbit > 3160 mg/kg

Oral

LD50 Rat 6 g/kg

Butoxyethanol (CAS 111-76-2)

Acute Dermal

LD50 Rabbit 1060 mg/kg, 24 Hours

Oral

LD50 Rat 530 - 2800 mg/kg

C9-15 Heavy Aromatic Hydrocarbons (CAS 64742-94-5)

Acute Dermal

LD50 Rabbit > 2000 mg/kg, 24 Hours

Inhalation

LC50 Rat < 5.8 mg/l, 4 Hours

Oral

LD50 Rat < 5000 mg/kg

> 25 ml/kg

8970 mg/kg

Cumene (CAS 98-82-8)

Acute Dermal

LD50 Rabbit > 3160 mg/kg, 24 Hours

Inhalation

Vapor

LC50 Mouse 10 mg/l, 7 Hours

Oral

LD50 Rat 2260 mg/kg

Material name: Gunk Engine Cleaner - Foamy

0 0

Components **Species Test Results** Diethanolamine (CAS 111-42-2) **Acute** Oral LD50 710 mg/kg Rat Ethylenediamine (CAS 107-15-3) **Acute** Dermal LD50 Rabbit 560 mg/kg, 24 Hours Inhalation Vapor LC50 Rat 7.35 mg/l, 8 Hours Oral LD50 Rat 500 mg/kg Kerosene (CAS 8008-20-6) **Acute** Dermal LD50 Rabbit > 2000 mg/kg, 24 Hours Inhalation Vapor LC50 Rat > 0.1 mg/l, 8 Hours Oral LD50 Rat > 5000 mg/kg Methoxyethanol (CAS 109-86-4) **Acute** Dermal LD50 Rabbit 1280 mg/kg Oral LD50 Rat 2257 mg/kg Morpholine (CAS 110-91-8) **Acute** Oral LD50 Rat 1.05 g/kg Naphthalene (CAS 91-20-3) **Acute** Dermal LD50 Rabbit > 2 g/kg Oral LD50 Rat 490 mg/kg N-Ethylmorpholine (CAS 100-74-3) **Acute** Oral LD50 Rat 1490 - 2120 mg/kg Oleic Acid (CAS 112-80-1) **Acute** Dermal LD50 > 3000 mg/kg Guinea pig Oral LD50 Rat 74 g/kg

Components Species Test Results

Sodium Glucoheptonate (CAS 31138-65-5)

Acute Dermal

LD50 Rat > 2000 mg/kg, 24 Hours

Oral

LD50 Rat > 4040 mg/kg

Triethanolamine (CAS 102-71-6)

Acute Dermal

LD50 Rabbit > 2000 mg/kg

Oral

LD50 Rat 6400 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** May cause genetic defects.

Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Butoxyethanol (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans.

Cumene (CAS 98-82-8)

Diethanolamine (CAS 111-42-2)

2B Possibly carcinogenic to humans.

2B Possibly carcinogenic to humans.

Morpholine (CAS 110-91-8) 3 Not classifiable as to carcinogenicity to humans.

Naphthalene (CAS 91-20-3) 2B Possibly carcinogenic to humans.

Triethanolamine (CAS 102-71-6) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Cumene (CAS 98-82-8)

Reasonably Anticipated to be a Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** May be fatal if swallowed and enters airways.

**Chronic effects** Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

### 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Components Species Test Results

1,2,4-Trimethylbenzene (CAS 95-63-6)

**Aquatic** 

Fish LC50 Fathead minnow (Pimephales promelas) 7.19 - 8.28 mg/l, 96 hours

1h-indene, 2,3-dihydro- (CAS 496-11-7)

**Aquatic** 

Fish LC50 Fathead minnow (Pimephales promelas) 14 mg/l, 96 hours

Benzene, 1,3-diethyl- (CAS 141-93-5)

**Aquatic** 

Fish LC50 Fathead minnow (Pimephales promelas) 4.05 - 4.25 mg/l, 96 hours

Components **Species Test Results** Butoxyethanol (CAS 111-76-2) **Aquatic** Fish LC50 Inland silverside (Menidia beryllina) 1250 mg/l, 96 hours C9-15 Heavy Aromatic Hydrocarbons (CAS 64742-94-5) **Aquatic** Crustacea EC50 Water flea (Daphnia pulex) 2.7 - 5.1 mg/l, 48 hours Fish LC50 Rainbow trout, donaldson trout 8.8 mg/l, 96 hours (Oncorhynchus mykiss) 8.8 mg/l, 96 hours Cumene (CAS 98-82-8) Aquatic EC50 Crustacea Brine shrimp (Artemia sp.) 3.55 - 11.29 mg/l, 48 hours Fish LC50 Rainbow trout, donaldson trout 2.7 mg/l, 96 hours (Oncorhynchus mykiss) Diethanolamine (CAS 111-42-2) **Aquatic** Crustacea EC50 Water flea (Ceriodaphnia dubia) 61.8 - 86.04 mg/l, 48 hours Fish LC50 Fathead minnow (Pimephales promelas) 100 mg/l, 96 hours Ethylenediamine (CAS 107-15-3)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 98.6 - 131.6 mg/l, 96 hours

Methoxyethanol (CAS 109-86-4)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) > 10000 mg/l, 96 hours

Morpholine (CAS 110-91-8)

**Aquatic** 

Fish LC50 Zebra danio (Danio rerio) > 1 mg/l, 96 hours

Naphthalene (CAS 91-20-3)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 1.09 - 3.4 mg/l, 48 hours
Fish LC50 Pink salmon (Oncorhynchus gorbuscha) 1.11 - 1.68 mg/l, 96 hours

Oleic Acid (CAS 112-80-1)

**Aquatic** 

Fish LC50 Fathead minnow (Pimephales promelas) 205 mg/l, 96 hours

Triethanolamine (CAS 102-71-6)

**Aquatic** 

Crustacea EC50 Water flea (Ceriodaphnia dubia) 565.2 - 658.3 mg/l, 48 hours
Fish LC50 Fathead minnow (Pimephales promelas) 10610 - 13010 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

1,4-diethylbenzene4.45Benzene, 1,3-diethyl-4.44

Butoxyethanol 0.81 log Pow, at 25 °C

Cumene 3.66 Diethanolamine -1.43**Ethylenediamine** -2.04Methoxyethanol -0.77-0.86 Morpholine Naphthalene 3.3 Tert-butylbenzene 4.11 Triethanolamine -1

Mobility in soil No data available.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

# 13. Disposal considerations

**Disposal instructions** 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 regulations Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

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).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

# 14. Transport information

DOT

UN1950 **UN** number

**UN** proper shipping name

Transport hazard class(es)

Aerosols, flammable, Limited Quantity, Limited Quantity

Class 2.1 Subsidiary risk

Packing group Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

**UN** number

**UN proper shipping name** Aerosols, Flammable, Limited Quantity, Limited Quantity

Transport hazard class(es)

Class 2.1 Subsidiary risk

Packing group Not available.

**Environmental hazards** No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

**UN** number

**UN proper shipping name** 

Transport hazard class(es)

2.1 Class

Subsidiary risk

Packing group

Not available.

**Environmental hazards** 

Marine pollutant Nο

Not available. **EmS** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Aerosols, Flammable, Limited Quantity (Petroleum Distillates), Limited Quantity

Petroleum Distillates

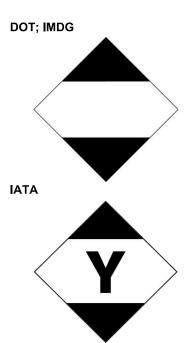
Transport in bulk according to Annex II of MARPOL 73/78 and

Not established.

the IBC Code

Material name: Gunk Engine Cleaner - Foamy

SDS US



## 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910 1200

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Methoxyethanol (CAS 109-86-4)

Sodium Glucoheptonate (CAS 31138-65-5)

1.0 % One-Time Export Notification only.

1.0 % One-Time Export Notification only.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Butoxyethanol (CAS 111-76-2) Listed. Cumene (CAS 98-82-8) Listed. Diethanolamine (CAS 111-42-2) Listed. Ethylenediamine (CAS 107-15-3) Listed Methoxyethanol (CAS 109-86-4) Listed. Morpholine (CAS 110-91-8) Listed Naphthalene (CAS 91-20-3) Listed. N-Ethylmorpholine (CAS 100-74-3) Listed.

SARA 304 Emergency release notification

Ethylenediamine (CAS 107-15-3) 5000 LBS OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

### SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)

Ethylenediamine 107-15-3 5000 10000

SARA 311/312 Hazardous

chemical

Yes

Aspiration hazard

Classified hazard categories

Acute toxicity (any route of exposure)

Skin corrosion or irritation Germ cell mutagenicity Carcinogenicity

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Butoxyethanol	111-76-2	< 1
Naphthalene	91-20-3	< 0.3

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Cumene (CAS 98-82-8)

Diethanolamine (CAS 111-42-2)

Methoxyethanol (CAS 109-86-4)

Naphthalene (CAS 91-20-3)

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Ethylenediamine (CAS 107-15-3)

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **US** state regulations

#### **California Proposition 65**

#### California Proposition 65 - CRT: Listed date/Carcinogenic substance

Cumene (CAS 98-82-8)

Diethanolamine (CAS 111-42-2)

Naphthalene (CAS 91-20-3)

Listed: April 6, 2010

Listed: June 22, 2012

Listed: April 19, 2002

### California Proposition 65 - CRT: Listed date/Developmental toxin

Methoxyethanol (CAS 109-86-4) Listed: January 1, 1989

#### California Proposition 65 - CRT: Listed date/Male reproductive toxin

Methoxyethanol (CAS 109-86-4) Listed: January 1, 1989

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

1,2,3-Trimethylbenzene (CAS 526-73-8)

1,2,4-Trimethylbenzene (CAS 95-63-6)

Butoxyethanol (CAS 111-76-2)

Cumene (CAS 98-82-8)

Diethanolamine (CAS 111-42-2)

Ethylenediamine (CAS 107-15-3)

Kerosene (CAS 8008-20-6)

Methoxyethanol (CAS 109-86-4)

Naphthalene (CAS 91-20-3)

Petroleum Gases, Liquefied, Sweetened (CAS 68476-86-8)

Tert-butylbenzene (CAS 98-06-6)

#### International Inventories

Country(s) or region	Inventory name On inventory	(yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Vee" indicates that all compor	ponts of this product comply with the inventory requirements administered by the governing country(s)	

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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

 Issue date
 05-29-2015

 Revision date
 011-17-2022

Version # 07

Material name: Gunk Engine Cleaner - Foamy

FEB1, FEB1/6 Version #: 07 Revision date: 11-17-2022 Issue date: 05-29-2015

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).

HMIS® ratings Health: 3\*

Flammability: 0 Physical hazard: 0

NFPA ratings Health: 2

Flammability: 0 Instability: 0

**NFPA** ratings

2 0

**Disclaimer** 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.

**Revision information** Physical & Chemical Properties: Multiple Properties