

# SAFETY DATA SHEET

### 1. Identification

Product identifier	Gunk Engine Cleaner - Fo	amy
Other means of identification		
SDS number	FEB1	
Part No.	FEB1, FEB1/6	
Tariff code	3402.20.5100	
Recommended use	Engine Cleaner	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplie	r/Distributor information	
Manufacturer		
Company name Address	Blumenthal Brands Integrate 600 Radiator Road Indian Trail, NC 28079	ed, LLC
Telephone	Customer Service/ Technical	(704) 821-7643
Website	www.solvewithB.com	
E-mail	sds@solvewithB.com	
Emergency phone number	INFOTRAC (United States) INFOTRAC (International)	(800) 535-5053 (352) 323-3500
2 Hazard(s) identificatio	n	

#### 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 hazard	Category 3	
	Hazardous to the aquatic environment, long-term hazard	Category 3	
OSHA defined hazards	Not classified.		
Label elements			
Signal word	Danger		
Hazard statement	Pressurized container: May burst if heated. May be fatal if swallowed and enters airways. Causes 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.

Response	If swallowed: Immediately call a poison center/doctor. Rinse mouth. Do NOT induce vomiting. If 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.
Storage	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.
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

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	70 - < 80
Petroleum Gases, Liquefied, Sweetened		68476-86-8	5 - < 10
C9-15 Heavy Aromatic Hydrocarbons		64742-94-5	3 - < 5
Kerosene		8008-20-6	1 - < 3
1,2,3,5-tetramethylbenzene		527-53-7	< 1
1,4-diethylbenzene		105-05-5	< 1
Butoxyethanol		111-76-2	< 1
Morpholine		110-91-8	< 1
Oleic Acid		112-80-1	< 1
Sodium Glucoheptonate		31138-65-5	< 1
Tert-butylbenzene		98-06-6	< 1
1,2,3,4-tetramethylbenzene		488-23-3	< 0.3
Naphthalene		91-20-3	< 0.3
1,2,3-Trimethylbenzene		526-73-8	< 0.2
1,2,4-Trimethylbenzene		95-63-6	< 0.2
1h-indene, 2,3-dihydro-		496-11-7	< 0.2
3-propyltoluene		1074-43-7	< 0.2
Triethanolamine		102-71-6	< 0.2
Benzene, 1,3-diethyl-		141-93-5	< 0.1
Cumene		98-82-8	< 0.1
Diethanolamine		111-42-2	< 0.1
Diethylbenzene		25340-17-4	< 0.1
Ethylenediamine		107-15-3	< 0.1
Methoxyethanol		109-86-4	< 0.1
N-Ethylmorpholine		100-74-3	< 0.1

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

4. First-aid measu	res
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.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

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	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from<br/>the chemicalContents under pressure. Pressurized container may explode when exposed to heat or flame.<br/>During fire, gases hazardous to health may be formed.Special protective equipment<br/>and precautions for firefightersFirefighters must use standard protective equipment including flame retardant coat, helmet with<br/>face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

and precautions for firefightersface shield, gloves, rubber boots, and in enclosed spaces, SCBA.Fire fighting<br/>equipment/instructionsMove containers from fire area if you can do so without risk. Containers should be cooled with<br/>water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose<br/>holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.Specific methodsUse standard firefighting procedures and consider the hazards of other involved materials. Move<br/>containers from fire area if you can do so without risk. In the event of fire and/or explosion do not

#### 6. Accidental release measures

breathe fumes.

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.

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

Components	Туре	Value	
Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3	
		50 ppm	
C9-15 Heavy Aromatic Hydrocarbons (CAS 64742-94-5)	PEL	400 mg/m3	
		100 ppm	
Cumene (CAS 98-82-8)	PEL	245 mg/m3	
		50 ppm	
Ethylenediamine (CAS 107-15-3)	PEL	25 mg/m3	
		10 ppm	
Methoxyethanol (CAS 109-86-4)	PEL	80 mg/m3	
		25 ppm	
Morpholine (CAS 110-91-8)	PEL	70 mg/m3	
		20 ppm	
Naphthalene (CAS 91-20-3)	PEL	50 mg/m3	
		10 ppm	
N-Ethylmorpholine (CAS 100-74-3)	PEL	94 mg/m3	
		20 ppm	

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
1,2,3-Trimethylbenzene (CAS 526-73-8)	TWA	25 ppm	
1,2,4-Trimethylbenzene (CAS 95-63-6)	TWA	25 ppm	
Butoxyethanol (CAS 111-76-2)	TWA	20 ppm	
C9-15 Heavy Aromatic Hydrocarbons (CAS 64742-94-5)	TWA	200 mg/m3	Non-aerosol.
Cumene (CAS 98-82-8)	TWA	50 ppm	
Diethanolamine (CAS 111-42-2)	TWA	1 mg/m3	Inhalable fraction and vapor.
Ethylenediamine (CAS 107-15-3)	TWA	10 ppm	
Kerosene (CAS 8008-20-6)	TWA	200 mg/m3	Non-aerosol.
Methoxyethanol (CAS 109-86-4)	TWA	0.1 ppm	
Morpholine (CAS 110-91-8)	TWA	20 ppm	
Naphthalene (CAS 91-20-3)	TWA	10 ppm	
N-Ethylmorpholine (CAS 100-74-3)	TWA	5 ppm	
Triethanolamine (CAS 102-71-6)	TWA	5 mg/m3	

## US. NIOSH: Pocket Guide to Chemical Hazards

Components	-	Туре		Val	ue
1,2,3-Trimethylbenzene (CAS 526-73-8)		TWA		125	i mg/m3
				25	opm
1,2,4-Trimethylbenzene (CAS 95-63-6)		TWA		125	i mg/m3
				25	opm
Butoxyethanol (CAS 111-76-2)		TWA		24 เ	mg/m3
				5 pj	om
Cumene (CAS 98-82-8)	-	TWA		245	i mg/m3
				50 j	opm
Diethanolamine (CAS 111-42-2)	-	TWA		ו 15 ו	mg/m3
				3 pj	om
Ethylenediamine (CAS 107-15-3)		TWA		25 ו	mg/m3
				10	opm
Kerosene (CAS 8008-20-6	6) -	TWA		100	mg/m3
Methoxyethanol (CAS 109-86-4)		TWA		0.3	mg/m3
				0.1	ppm
Morpholine (CAS 110-91-	8) :	STEL		105	i mg/m3
				30	opm
	-	TWA		70 i	mg/m3
				20	opm
Naphthalene (CAS 91-20-	-3) :	STEL		75 ı	mg/m3
				15	opm
	-	TWA		50 r	mg/m3
				10	opm
N-Ethylmorpholine (CAS 100-74-3)	-	TWA		-	mg/m3
,				5 pj	om
US. Workplace Environn	nental Exposure Le	vel (V	VEEL) Guides		
Components	-	Туре		Val	ue
1,4-diethylbenzene (CAS 105-05-5)	-	TWA		5 pj	om
Benzene, 1,3-diethyl- (CA 141-93-5)	S	TWA		5 pj	
Diethylbenzene (CAS 25340-17-4)	-	TWA		5 pj	om
ogical limit values					
ACGIH Biological Expos				_	
Components	Value		Determinant	Specimen	Sampling Time
Butoxyethanol (CAS 111-76-2)	200 mg/g		Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*
Methoxyethanol (CAS 109-86-4)	1 mg/g		2-Methoxyaceti	Creatinine in	*

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

#### Exposure guidelines

Exposure guidelines					
US - California OELs: Skin	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 11		Can be absorbed through the skin.			
		Can be absorbed through the skin.			
Morpholine (CAS 110-91	,	Can be absorbed through the skin.			
Naphthalene (CAS 91-20		Can be absorbed through the skin.			
N-Ethylmorpholine (CAS		Can be absorbed through the skin.			
US - Minnesota Haz Subs: S	• •				
Butoxyethanol (CAS 111	-76-2)	Skin designation applies.			
Cumene (CAS 98-82-8)		Skin designation applies.			
Methoxyethanol (CAS 10 Mereboling (CAS 110.01		Skin designation applies.			
Morpholine (CAS 110-91 N-Ethylmorpholine (CAS		Skin designation applies. Skin designation applies.			
US - Tennessee OELs: Skin		Skill designation applies.			
	•	Can be absorbed through the skin			
Butoxyethanol (CAS 111 Cumene (CAS 98-82-8)	-76-2)	Can be absorbed through the skin. Can be absorbed through the skin.			
Methoxyethanol (CAS 10	19-86-4)	Can be absorbed through the skin.			
Morpholine (CAS 110-91		Can be absorbed through the skin.			
N-Ethylmorpholine (CAS		Can be absorbed through the skin.			
US ACGIH Threshold Limit					
	ydrocarbons (CAS 64742-94-5)	Can be absorbed through the skin.			
Diethanolamine (CAS 11		Can be absorbed through the skin.			
Ethylenediamine (CAS 1		Can be absorbed through the skin.			
Kerosene (CAS 8008-20		Can be absorbed through the skin.			
Methoxyethanol (CAS 10		Can be absorbed through the skin.			
Morpholine (CAS 110-91		Can be absorbed through the skin.			
Naphthalene (CAS 91-20		Can be absorbed through the skin.			
N-Ethylmorpholine (CAS		Can be absorbed through the skin.			
	Chemical Hazards: Skin desig				
Butoxyethanol (CAS 111	-76-2)	Can be absorbed through the skin.			
Cumene (CAS 98-82-8)		Can be absorbed through the skin.			
Methoxyethanol (CAS 10		Can be absorbed through the skin.			
Morpholine (CAS 110-91		Can be absorbed through the skin.			
N-Ethylmorpholine (CAS	,	Can be absorbed through the skin.			
	for Air Contaminants (29 CFR	-			
Butoxyethanol (CAS 111	-76-2)	Can be absorbed through the skin.			
Cumene (CAS 98-82-8) Methoxyethanol (CAS 10	0.86.4)	Can be absorbed through the skin. Can be absorbed through the skin.			
Morpholine (CAS 110-91		Can be absorbed through the skin.			
N-Ethylmorpholine (CAS	,	Can be absorbed through the skin.			
Appropriate engineering	,				
controls	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 ventilatior 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. Prov eyewash station and safety shower.				
Individual protection measures,	such as personal protective e	equipment			
Eye/face protection		nic vapor cartridge and full facepiece.			
Skin protection					
Hand protection	Wear appropriate chemical re-				
Other		sistant 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 prof	tective clothing, when necessary.			
considerations and drink. Always observe goo material and before eating, dri		ince requirements. When using do not smoke. Keep away from food od personal hygiene measures, such as washing after handling the inking, and/or smoking. Routinely wash work clothing and protective nants. Contaminated work clothing should not be allowed out of the			

workplace.

### 9. Physical and chemical properties

9. Physical and chemical	properties
Appearance	Liquid Hazy
Physical state	Liquid.
Form	Aerosol.
Color	Cream
Odor	Sweet. Aromatic.
Odor threshold	Not available.
рН	9 - 10
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	> 201.0 °F (> 93.9 °C) Tag Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	348.27662 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	8.17 lbs/gal
Explosive properties	Not explosive.
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	1

10. Stability and reactivity			
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.		
Chemical stability	Material is stable under normal conditions.		
Possibility of hazardous reactions	Hazardous polymerization does not occur.		
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.		
Incompatible materials	Strong oxidizing agents.		

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.

•	•	
Components	Species	Test Results
1,2,3-Trimethylbenzene (C	AS 526-73-8)	
<u>Acute</u>		
Oral		
LD50	Rat	8970 mg/kg
1,2,4-Trimethylbenzene (C	AS 95-63-6)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 3160 mg/kg
Oral		
LD50	Rat	6 g/kg
Butoxyethanol (CAS 111-7	6-2)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	1060 mg/kg, 24 Hours
Oral		
LD50	Rat	530 - 2800 mg/kg
C9-15 Heavy Aromatic Hyd	Irocarbons (CAS 64742-94-5)	
<u>Acute</u>		
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
Cumene (CAS 98-82-8)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 3160 mg/kg, 24 Hours
Inhalation		
Vapor		
LC50	Mouse	10 mg/l, 7 Hours
Oral		
LD50	Rat	2260 mg/kg

Components	Species	Test Results
Diethanolamine (CAS 111-42-2)		
Acute		
Oral		
LD50	Rat	710 mg/kg
Ethylenediamine (CAS 107-15-3)		
<u>Acute</u>		
<b>Dermal</b> LD50	Rabbit	F60 mg/kg 24 Hours
	Rabbit	560 mg/kg, 24 Hours
Inhalation Vapor		
LC50	Rat	7.35 mg/l, 8 Hours
Oral		7.55 mg/l, 6 mours
LD50	Rat	500 mg/kg
Kerosene (CAS 8008-20-6)		ooo mging
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
Inhalation		,
Vapor		
LC50	Rat	> 0.1 mg/l, 8 Hours
Oral		<b>U</b>
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)		
<u>Acute</u>		
Oral		
LD50	Rat	1.05 g/kg
Naphthalene (CAS 91-20-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2 g/kg
Oral		
LD50	Rat	490 mg/kg
N-Ethylmorpholine (CAS 100-74-3)		
Acute		
Oral	<b>P</b> /	
LD50	Rat	1490 - 2120 mg/kg
Oleic Acid (CAS 112-80-1)		
<u>Acute</u>		
<b>Dermal</b> LD50	Guinea nig	> 3000 mg/kg
	Guinea pig	< 5000 mg/kg
<b>Oral</b> LD50	Rat	74 a/ka
	i vai	74 g/kg

Components	Species	Test Results			
Sodium Glucoheptonate (CAS 311	138-65-5)				
<u>Acute</u>					
Dermal					
LD50	Rat	> 2000 mg/kg, 24 Hours			
Oral					
LD50	Rat	> 4040 mg/kg			
Triethanolamine (CAS 102-71-6)	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 rritation	Direct contact with eyes may	cause temporary irritation.			
Respiratory or skin sensitizatior	n				
Respiratory sensitization	Not a respiratory sensitizer.				
Skin sensitization	May cause an allergic skin rea	action.			
Germ cell mutagenicity	May cause genetic defects.				
Carcinogenicity	May cause cancer.				
IARC Monographs. Overall	Evaluation of Carcinogenicity				
	line (CAS 110-91-8)3 Not classifiable as to carcinogenicity to humans.alene (CAS 91-20-3)2B Possibly carcinogenic to humans.				
Diethanolamine (CAS 11 Morpholine (CAS 110-91- Naphthalene (CAS 91-20 Triethanolamine (CAS 10	-8) )-3) )2-71-6)	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. 2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans.			
Morpholine (CAS 110-91- Naphthalene (CAS 91-20 Triethanolamine (CAS 10 <b>OSHA Specifically Regulate</b>	-8) )-3) )2-71-6)	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. 2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans.			
Morpholine (CAS 110-91- Naphthalene (CAS 91-20 Triethanolamine (CAS 10 <b>OSHA Specifically Regulate</b> Not regulated.	-8) )-3) )2-71-6)	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. 2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. <b>001-1052)</b>			
Morpholine (CAS 110-91- Naphthalene (CAS 91-20 Triethanolamine (CAS 10 <b>OSHA Specifically Regulate</b> Not regulated. <b>US. National Toxicology Pro</b> Cumene (CAS 98-82-8)	-8) )-3) )2-71-6) ed Substances (29 CFR 1910.1 ogram (NTP) Report on Carcin	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. 2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. 001-1052) Nogens Reasonably Anticipated to be a Human Carcinogen.			
Morpholine (CAS 110-91- Naphthalene (CAS 91-20 Triethanolamine (CAS 10 <b>OSHA Specifically Regulate</b> Not regulated. <b>US. National Toxicology Pro</b> Cumene (CAS 98-82-8) Naphthalene (CAS 91-20	-8) 0-3) 02-71-6) od Substances (29 CFR 1910.1 ogram (NTP) Report on Carcin	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. 2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. <b>001-1052)</b> <b>Pogens</b> Reasonably Anticipated to be a Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen.			
Morpholine (CAS 110-91- Naphthalene (CAS 91-20 Triethanolamine (CAS 10 <b>OSHA Specifically Regulate</b> Not regulated. <b>US. National Toxicology Pro</b> Cumene (CAS 98-82-8) Naphthalene (CAS 91-20 <b>Reproductive toxicity</b>	-8) 0-3) 02-71-6) o <b>d Substances (29 CFR 1910.1</b> o <b>gram (NTP) Report on Carcin</b> 0-3) This product is not expected t	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. 2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. 001-1052) Nogens Reasonably Anticipated to be a Human Carcinogen.			
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Morpholine (CAS 110-91- Naphthalene (CAS 91-20 Triethanolamine (CAS 10 <b>OSHA Specifically Regulate</b> Not regulated. <b>US. National Toxicology Pro</b> Cumene (CAS 98-82-8) Naphthalene (CAS 91-20 <b>Reproductive toxicity</b> <b>Specific target organ toxicity -</b>	-8) 0-3) 02-71-6) o <b>d Substances (29 CFR 1910.1</b> o <b>gram (NTP) Report on Carcin</b> 0-3) This product is not expected t	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. 2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. <b>001-1052)</b> <b>Pogens</b> Reasonably Anticipated to be a Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen.			
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Morpholine (CAS 110-91- Naphthalene (CAS 91-20 Triethanolamine (CAS 10 <b>OSHA Specifically Regulate</b> Not regulated. <b>US. National Toxicology Pro</b> Cumene (CAS 98-82-8) Naphthalene (CAS 91-20 <b>Reproductive toxicity</b> <b>Specific target organ toxicity -</b> single exposure <b>Specific target organ toxicity -</b> repeated exposure <b>Aspiration hazard</b> <b>Chronic effects</b>	-8) -3) 22-71-6) <b>ed Substances (29 CFR 1910.1</b> <b>ogram (NTP) Report on Carcin</b> -3) This product is not expected t Not classified. Not classified. May be fatal if swallowed and Prolonged inhalation may be	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. 2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. <b>001-1052)</b> <b>nogens</b> Reasonably Anticipated to be a Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen. o cause reproductive or developmental effects. enters airways. harmful. Prolonged exposure may cause chronic effects.			
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Morpholine (CAS 110-91- Naphthalene (CAS 91-20 Triethanolamine (CAS 10 OSHA Specifically Regulate Not regulated. US. National Toxicology Pro Cumene (CAS 98-82-8) Naphthalene (CAS 91-20 Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological information Ecotoxicity Components 1,2,4-Trimethylbenzene (CAS Aquatic	-8) ()-3) ()2-71-6) ed Substances (29 CFR 1910.1 () ogram (NTP) Report on Carcin ()-3) This product is not expected to Not classified. Not classified. May be fatal if swallowed and Prolonged inhalation may be left n Harmful to aquatic life with lor Species () 95-63-6)	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. 2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. <b>001-1052</b> <b>nogens</b> Reasonably Anticipated to be a Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen. o cause reproductive or developmental effects. enters airways. harmful. Prolonged exposure may cause chronic effects. mg lasting effects. <b>Test Results</b>			
Morpholine (CAS 110-91- Naphthalene (CAS 91-20 Triethanolamine (CAS 10 OSHA Specifically Regulate Not regulated. US. National Toxicology Pro Cumene (CAS 98-82-8) Naphthalene (CAS 91-20 Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects 12. Ecological information Ecotoxicity Components 1,2,4-Trimethylbenzene (CAS Aquatic	-8) ()-3) ()2-71-6) ed Substances (29 CFR 1910.1 () ogram (NTP) Report on Carcin ()-3) This product is not expected to Not classified. Not classified. May be fatal if swallowed and Prolonged inhalation may be left n Harmful to aquatic life with lor Species () 95-63-6)	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. 2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. <b>001-1052)</b> <b>nogens</b> Reasonably Anticipated to be a Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen. o cause reproductive or developmental effects. enters airways. harmful. Prolonged exposure may cause chronic effects.			
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Morpholine (CAS 110-91- Naphthalene (CAS 91-20 Triethanolamine (CAS 10 <b>OSHA Specifically Regulate</b> Not regulated. <b>US. National Toxicology Pro</b> Cumene (CAS 98-82-8) Naphthalene (CAS 91-20 Reproductive toxicity Specific target organ toxicity - single exposure Specific target organ toxicity - repeated exposure Aspiration hazard Chronic effects <b>12. Ecological information</b> Ecotoxicity Components 1,2,4-Trimethylbenzene (CAS Aquatic Fish	-8) ()-3) ()2-71-6) ed Substances (29 CFR 1910.1 ()-3) This product is not expected to Not classified. Not classified. May be fatal if swallowed and Prolonged inhalation may be for m Harmful to aquatic life with lor Species () 95-63-6) LC50 Fathead minner 496-11-7)	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. 2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans. <b>001-1052</b> <b>nogens</b> Reasonably Anticipated to be a Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen. o cause reproductive or developmental effects. enters airways. harmful. Prolonged exposure may cause chronic effects. mg lasting effects. <b>Test Results</b>			

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

**Aquatic** Fish

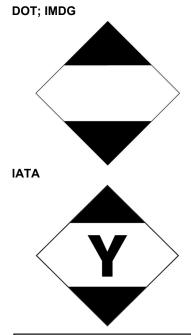
Components		Species	Test Results
Butoxyethanol (CAS 111-76-	2)		
Aquatic			
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours
C9-15 Heavy Aromatic Hydro	ocarbons (CAS 6	4742-94-5)	
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	2.7 - 5.1 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	8.8 mg/l, 96 hours
			8.8 mg/l, 96 hours
Cumene (CAS 98-82-8)			
Aquatic	5050		
Crustacea	EC50	Brine shrimp (Artemia sp.)	3.55 - 11.29 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.7 mg/l, 96 hours
Diethanolamine (CAS 111-42	2-2)		
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 107-1	5-3)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	98.6 - 131.6 mg/l, 96 hours
Methoxyethanol (CAS 109-86	6-4)		
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)	-
Oleic Acid (CAS 112-80-1)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	205 mg/l, 96 hours
Triethanolamine (CAS 102-7		· · · · · · · · · · · · · · · · · · ·	
Aquatic	- /		
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	565.2 - 658.3 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	-
sistence and degradability		ailable on the degradability of any ingredier	
accumulative potential			
Partition coefficient n-octa	nol / water (log l	Kow)	
1,4-diethylbenzene		4.45	
Benzene, 1,3-diethyl-		4.44	
Butoxyethanol Cumene		0.81 log Pow, at 25 °C 3.66	
Diethanolamine		-1.43	
Ethylenediamine		-2.04	
Methoxyethanol		-0.77	
Morpholine Naphthalene		-0.86 3.3	
Tert-butylbenzene		3.3 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.		
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste 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).		
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is 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	
UN number	UN1950
UN proper shipping name	Aerosols, flammable, Limited Quantity, Limited Quantity
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Packing group	Not available.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
ΙΑΤΑ	
UN number	UN1950
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.
	Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	UN1950
UN proper shipping name	Aerosols, Flammable, Limited Quantity (Petroleum Distillates), Limited Quantity
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Packing group	Not available.
Environmental hazards	
Marine pollutant	No.
EmS	Not available.
• •	Read safety instructions, SDS and emergency procedures before handling.
Petroleum Distillates	
Transport in bulk according to	Not established.
Annex II of MARPOL 73/78 and the IBC Code	



## 15. Regulatory information

ederal regulations		ct is a "Hazardou 29 CFR 1910.120		d by the OSHA Hazard	Communication
TSCA Section 12(b) Expo	ort Notification	(40 CFR 707, St	ubpt. D)		
Methoxyethanol (CAS 109-86-4)			1.0 % One-Time E	Export Notification only.	
Sodium Glucoheptona	ate (CAS 31138-	65-5)	1.0 % One-Time E	Export Notification only.	
CERCLA Hazardous Sub	stance List (40	CFR 302.4)			
Butoxyethanol (CAS 1	11-76-2)		Listed.		
Cumene (CAS 98-82-8	8)		Listed.		
Diethanolamine (CAS			Listed.		
Ethylenediamine (CAS			Listed.		
Methoxyethanol (CAS			Listed.		
Morpholine (CAS 110-			Listed.		
Naphthalene (CAS 91			Listed.		
N-Ethylmorpholine (C/			Listed.		
SARA 304 Emergency re		on			
Ethylenediamine (CAS			5000 LBS		
<b>OSHA Specifically Regul</b>	ated Substance	es (29 CFR 1910	).1001-1052)		
· · · · · · · · · · · · · · · · · · ·		•			
Not regulated. erfund Amendments and			SARA)		
Not regulated. erfund Amendments and SARA 302 Extremely haz			SARA) Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
Not regulated. erfund Amendments and SARA 302 Extremely haz Chemical name	ardous substa	nce Reportable quantity	Threshold planning quantity	planning quantity, lower value	planning quantity, upper value
Not regulated. erfund Amendments and SARA 302 Extremely haz Chemical name	cardous substa CAS number 107-15-3	nce Reportable quantity (pounds)	Threshold planning quantity (pounds)	planning quantity, lower value	planning quantity, upper value
Not regulated. erfund Amendments and SARA 302 Extremely haz Chemical name Ethylenediamine SARA 311/312 Hazardous	cAS number CAS number 107-15-3 s Yes Acute toxic Skin corros	nce Reportable quantity (pounds) 5000 sity (any route of sion or irritation mutagenicity nicity	Threshold planning quantity (pounds) 10000	planning quantity, lower value	planning quantity, upper value
Not regulated. erfund Amendments and SARA 302 Extremely haz Chemical name Ethylenediamine SARA 311/312 Hazardous chemical Classified hazard categories	Acute toxic Skin corros Germ cell r Carcinoger Aspiration	nce Reportable quantity (pounds) 5000 sity (any route of sion or irritation mutagenicity nicity	Threshold planning quantity (pounds) 10000	planning quantity, lower value	planning quantity, upper value
Not regulated. erfund Amendments and SARA 302 Extremely haz Chemical name Ethylenediamine SARA 311/312 Hazardous chemical Classified hazard	Acute toxic Skin corros Germ cell r Carcinoger Aspiration	nce Reportable quantity (pounds) 5000 5000 ity (any route of sion or irritation mutagenicity hicity hazard	Threshold planning quantity (pounds) 10000	planning quantity, lower value	planning quantity, upper value
Not regulated. erfund Amendments and SARA 302 Extremely haz Chemical name Ethylenediamine SARA 311/312 Hazardous chemical Classified hazard categories SARA 313 (TRI reporting)	Acute toxic Skin corros Germ cell r Carcinoger Aspiration	nce Reportable quantity (pounds) 5000 ity (any route of sion or irritation nutagenicity hazard	Threshold planning quantity (pounds) 10000 exposure)	planning quantity, lower value (pounds)	planning quantity, upper value

#### 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) Listed: April 6, 2010 Diethanolamine (CAS 111-42-2) Listed: June 22, 2012 Naphthalene (CAS 91-20-3) 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

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

European Inventory of Existing Commercial Chemical

European List of Notified Chemical Substances (ELINCS)

Inventory of Existing and New Chemical Substances (ENCS)

Philippine Inventory of Chemicals and Chemical Substances

Taiwan Chemical Substance Inventory (TCSI)

Toxic Substances Control Act (TSCA) Inventory

Substances (EINECS)

New Zealand Inventory

(PICCS)

Existing Chemicals List (ECL)

16. Other information, including date of preparation or last revision			
Issue date	05-29-2015		
Revision date	03-23-2020		
Version #	06		

Europe

Europe

Japan

Korea

New Zealand

United States & Puerto Rico

Philippines

Taiwan

Yes

No

No

No

No

No

Yes

Yes

HMIS® ratings	Health: 3* Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 0 Instability: 0
NFPA ratings	200
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