

**SAFETY DATA SHEET****Gunk Engine Cleaner
& Cleaner**

Eye Protection:	Distribution, Workplace and Household Settings: Wear safety glasses with side shields (or goggles) or a face shield.
Hand Protection:	Distribution, Workplace and Household Settings: For sensitive skin or prolonged exposure, wear gloves.
Skin and Body Protection:	Distribution, Workplace and Household Settings: Wear appropriate chemical resistant gloves. Wear suitable protective clothing.
Respiratory Protection:	Distribution, Workplace and Household Settings: Chemical respirator with organic vapor cartridge and full facepiece if threshold limits is exceeded. Dust mask.
Thermal Hazard	Distribution, Workplace and Household Settings: Wear appropriate thermal protective clothing, when necessary.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State @ 20°C:	liquid
Appearance:	Clear liquid.
Odor:	Citrus
Odor threshold:	no information available

<u>Property</u>	<u>Values</u>	<u>Note</u>
pH Value	8.0 - 8.5	
Melting/freezing point:	-90.58 °F (-68.1 °C) estimated	
Boiling point/boiling range:	446.72 °F (230.4 °C) estimated	
Flash point:	> 237.0 °F (> 113.9 °C) estimated	
Evaporation rate:	No information available	
Flammability (solid, gas):	No information available	
Flammability Limits in Air:	No information available	
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure:	0.002 hPa estimated	
Vapor density:	No information available	
Specific Gravity:	1.01 g/mL @ 70°F(20°C)	
Water solubility:	No information available	
Solubility in other solvents:	No information available	
Partition coefficient: n-octanol/water:	No information available	
Auto ignition temperature:	442 °F (227.78 °C) estimated	No
Decomposition temperature:	information available	
Viscosity of Product:	No information available	
Percent volatile:	96.28	
VOC Content (%):	0%	

SECTION 10. STABILITY AND REACTIVITY

Reactivity:	None under normal use conditions
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Stability:	Stable under normal conditions.
Hazardous polymerization:	Hazardous polymerization does not occur.
Conditions to Avoid:	Contact with incompatible materials
Materials to Avoid:	Strong oxidizing agents..
Hazardous Decomposition Products:	None in particular.

SECTION 11. TOXICOLOGICAL INFORMATION

Product Information:

Information on likely routes of exposure.

Inhalation:	Prolonged inhalation may be harmful.
Skin contact:	No adverse effects due to skin contact are expected.
Ingestion:	Expected to be a low ingestion hazard.
Eye contact:	Causes serious eye damage.

Delayed and immediate effects as well as chronic effects form short and long-term exposure:

Acute toxicity	No known effect.
Skin corrosion/irritation	No known effect.
Serious eye damage/eye irritation	Causes serious eye irritation.
Skin sensitization	No known effect.
Respiratory sensitization	No known effect.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Neurological Effects	No known effect.
Reproductive toxicity	This product is not expected to cause reproductive effects.
Developmental toxicity	This product is not expected to cause developmental effects.
Teratogenicity	No known effect.
STOT – single exposure	No known effect.
STOT – repeated exposure	No known effect.
Target Organ Effects	No known effect.
Aspiration hazard	No known effect.
Carcinogenicity	Not classifiable as to carcinogenicity to humans.

Component Information:

Chemical Name	CAS-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
2-(2-butoxythoxy) Ethanol	112-34-5	Rat- 4500 mg/kg	Rabbit- 2700 mg/kg	-
Sodium Carbonate	497-19-8	Rat- 4090 mg/kg	-	-
Sodium Chloride	7647-14-5	Rat-3000 mg/kg	-	-

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity:



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This product is not expected to be hazardous to the environment.

Chemical Name	CAS-No	Species	Test Results
2-(2-butoxyethoxy) Ethanol	112-34-5	Bluegill (<i>Lepomis macrochirus</i>)	LC50: 1300 mg/l, 96 hours
Alcohols, C9-11, ethoxylated	68439-46-3	Water Flea (<i>Daphnia magna</i>) Fathead minnow (<i>Pimephales promelas</i>)	EC50: 2.9-8.5 mg/l, 48 hours LC50: 6-12 mg/l, 96 hours
Sodium Hydroxide	1310-73-2	Water Flea (<i>Daphnia magna</i>) Western mosquitofish (<i>Gambusia affinis</i>)	EC50: 34.59-47.13 mg/l, 48 h LC50: 125 mg/l, 96 hours
Sodium Carbonate	497-19-8	Water Flea (<i>Daphnia magna</i>) Bluegill (<i>Lepomis macrochirus</i>)	EC50: 156.6-298.9 mg/l, 48 h LC50: 300 mg/l, 96 hours
Sodium Chloride	7647-14-5	Water Flea (<i>Daphnia magna</i>) Fathead minnow (<i>Pimephales promelas</i>)	EC50: 340.7-469.2 mg/l, 48 h LC50: 6020 - 7070 mg/l, 96 hours
Tetrasodium EDTA	64-02-8	Bluegill (<i>Lepomis macrochirus</i>)	LC50: 472-500 mg/l, 96 hours

Persistence and degradability: No information available.

Bioaccumulative potential: **Partition coefficient n-octanol / water (log Kow)**
 2-(2-butoxyethoxy) Ethanol 0.56

Mobility: No information available.

Other adverse effects: No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Treatment:

Waste from Residues / Unused Products Collect and reclaim or dispose in sealed containers at licensed waste disposal site. regulations. 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.

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.

SECTION 14. TRANSPORT INFORMATION

General information: DOT Regulated marine pollutant.

Ground Transport (US DOT): Not regulated

IMDG: Not regulated

Air Transport (IATA): Not regulated

SECTION 15. REGULATORY INFORMATION



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U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations Part 372.

SARA 311/312 Hazardous Categorization:

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactivity Hazard	No

California Proposition 65:

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))
 2-(2-butoxyethoxy) Ethanol (CAS 112-34-5) Soda, Caustic (CAS 1310-73-2)

U.S. State Regulations (Right-to-know):

Ingredient	CAS#	CA RTK	CT RTK	FK RTK	IL RTK	LA RTK	MA RTK	MI RTK	NJ RTK	PA RTK	RI RTK
Tetrasodium EDTA	64-02-8								X	X	
2-Butoxyethanol	111-76-2						X		X	X	

International Inventories:

Country(s) or region	Inventory Name	On inventory (Yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States and Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

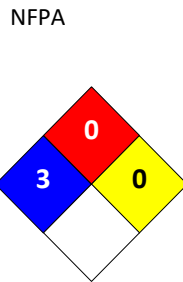
*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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SECTION 16. OTHER INFORMATION

Other Information:



HMIS

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

This SDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by RGA Enterprises to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. RGA Enterprises assumed no responsibility for injury to the recipient or third person or for any damage to any property resulting from misuse of the product.

Revision information

This document has undergone significant changes and should be reviewed in its entirety.