

ROCKET FUEL

Safety Data Sheet

SECTION 1: Product and company identification

Product name : ROCKET FUEL
Use of the substance/mixture : Cleaner
Product code : AL56
Company : GREEN CHEM LABORATORIES
1650 MARKET STREET
SUITE 3631
PHILADELPHIA, PA 19103 - US
T 1-800-964-3151 - F 1-800-336-9068
Emergency number : INFOTRAC: 1-800-535-5053 OR 1-352-323-3500

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification
Skin Corr. 1A H314
Eye Dam. 1 H318
STOT RE 1 H372

2.2. Label elements

GHS US labelling
Hazard pictograms (GHS US) :



GHS05 GHS08

Signal word (GHS US) : Danger
Hazard statements (GHS US) : Causes severe skin burns and eye damage.
Causes serious eye damage.
Causes damage to organs through prolonged or repeated exposure.
Precautionary statements (GHS US) : Do not breathe mist, spray.
Wash thoroughly after handling
Do not eat, drink or smoke when using this product.
Wear eye protection, protective clothing, protective gloves.
If swallowed: rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a doctor, a POISON CENTER.
Get medical advice/attention if you feel unwell.
Specific treatment (see First aid measures on this label).
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/container to comply with local/regional/national/international regulations..

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
phosphoric acid, conc=75%, aqueous solution	(CAS-No.) 7664-38-2	10-30%	Skin Corr. 1A, H314
Butoxyethanol	(CAS-No.) 111-76-2	3-7%	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332

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			Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Linear Alcohol Ethoxylate	(CAS-No.) 34398-01-1	1-5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
ammonium bifluoride; ammonium hydrogen difluoride	(CAS-No.) 1341-49-7	0.5-1.5	Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 STOT SE 3, H335 STOT RE 1, H372

All hazardous chemicals, as determined by 29 CFR 1910.1200 have been listed. A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact : Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects : Causes severe skin burns and eye damage.
Symptoms/effects after inhalation : May cause respiratory irritation. Risk of lung oedema.
Symptoms/effects after skin contact : Caustic burns/corrosion of the skin.
Symptoms/effects after eye contact : Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.
Symptoms/effects after ingestion : May be harmful if swallowed. Gastrointestinal complaints. Burns to the gastric/intestinal mucosa.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : All extinguishing media allowed.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Upon heating, toxic fumes are formed.
Reactivity : Thermal decomposition may produce : Phosphorous oxide. hydrofluoric acid. carbon oxides. Toxic fumes may be released. Contact with metallic substances may release flammable hydrogen gas.

5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Isolate from fire, if possible, without unnecessary risk.

6.1.1. For non-emergency personnel

- Protective equipment : Protective goggles. Gloves. Protective clothing.
Emergency procedures : Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent soil and water pollution.

6.3. Methods and material for containment and cleaning up

- For containment : Contain released product, pump into suitable containers.

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Methods for cleaning up : Absorb spillage to prevent material damage. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Handle and open the container with care.

Hygiene measures : Wash thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Store in corrosive resistant container with a resistant inner liner. Keep container closed when not in use.

Incompatible products : alkaline substances. metals and metal salts.

Incompatible materials : chlorine-based bleaching agents. ammonia. Cleaning agent.

Storage area : Keep only in the original container. Store in a dry area. Store in a cool area. Store away from heat.

Special rules on packaging : meet the legal requirements. Keep only in original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

phosphoric acid, conc=75%, aqueous solution (7664-38-2)

Not applicable

Butoxyethanol (111-76-2)

ACGIH	ACGIH OEL TWA [ppm]	20 ppm
ACGIH	Remark (ACGIH)	Eye & URT irr
OSHA	OSHA PEL TWA [1]	240 mg/m ³
OSHA	OSHA PEL TWA [2]	50 ppm

Linear Alcohol Ethoxylate (34398-01-1)

Not applicable

ammonium bifluoride; ammonium hydrogen difluoride (1341-49-7)

Not applicable

8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment : Use appropriate personal protective equipment when risk assessment indicates this is necessary. Safety glasses. Gloves. Protective clothing.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : clear, light blue, Liquid

Odour : Soapy

Odour threshold : No data available

pH : < 1

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : > 200 °F

Relative evaporation rate (butylacetate=1) : No data available

Flammability (solid, gas) : No data available

Explosive limits : No data available

Explosive properties : No data available

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Oxidising properties	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Relative vapour density at 20 °C	: No data available
Density	: 1.11 g/ml
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
VOC content	: < 5.5 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition may produce : Phosphorous oxide. hydrofluoric acid. carbon oxides. Toxic fumes may be released. Contact with metallic substances may release flammable hydrogen gas.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

alkalis. metals.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Butoxyethanol (111-76-2)

ATE CLP (oral)	500 mg/kg bodyweight
ATE CLP (dermal)	1100 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1.5 mg/l/4h

Linear Alcohol Ethoxylate (34398-01-1)

LD50 oral rat > 1400 mg/kg

ammonium bifluoride; ammonium hydrogen difluoride (1341-49-7)

ATE CLP (oral) 100 mg/kg bodyweight

Skin corrosion/irritation	: Causes severe skin burns. pH: < 1
Serious eye damage/irritation	: Causes serious eye damage. pH: < 1
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Butoxyethanol (111-76-2)

IARC group 3 - Not classifiable

Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

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STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: May cause respiratory irritation. Risk of lung oedema.
Symptoms/effects after skin contact	: Caustic burns/corrosion of the skin.
Symptoms/effects after eye contact	: Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.
Symptoms/effects after ingestion	: May be harmful if swallowed. Gastrointestinal complaints. Burns to the gastric/intestinal mucosa.
Likely routes of exposure	: Skin and eyes contact

SECTION 12: Ecological information

12.1. Toxicity

Linear Alcohol Ethoxylate (34398-01-1)	
LC50 - Fish [1]	< 10 mg/l
EC50 - Crustacea [1]	< 10 mg/l
ErC50 algae	< 10 mg/l

12.2. Persistence and degradability

phosphoric acid, conc=75%, aqueous solution (7664-38-2)	
Persistence and degradability	Biodegradability: not applicable.

12.3. Bioaccumulative potential

phosphoric acid, conc=75%, aqueous solution (7664-38-2)	
Bioaccumulative potential	No test data of component(s) available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
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SECTION 14: Transport information

Department of Transportation (DOT)

Transport document description (DOT)	: UN1805 Phosphoric acid solution, 8, III
UN-No.(DOT)	: UN1805
Proper Shipping Name (DOT)	: Phosphoric acid solution
Class (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT)	: 8 - Corrosive



Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Special Provisions (49 CFR 172.102)	: A7,IB3,N34,T4,TP1
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: A

Additional information

Other information	: When transported by ground, this product may be eligible to be shipped as a Limited Quantity utilizing the exception found at 49 CFR 173.154. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may be required.
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ADR

No additional information available

Transport by sea

No additional information available

Air transport

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No additional information available

SECTION 15: Regulatory information

All components of this product are listed as Active, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Butoxyethanol	111-76-2	3-7%
phosphoric acid, conc=75%, aqueous solution	(7664-38-2)	CERCLA RQ5000 lb
ammonium bifluoride; ammonium hydrogen difluoride	(1341-49-7)	CERCLA RQ100 lb
Linear Alcohol Ethoxylate	(34398-01-1)	SARA Section 311/312 Hazard Classes Immediate (acute) health hazard

WARNING

This product can expose you to Ethylene Oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

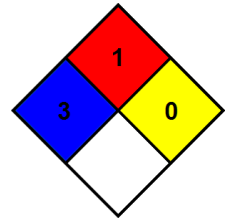
SECTION 16: Other information

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

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



Prepared by: Technical Department

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.