Safety Data Sheet



SECTION 1: Product and company identification

Product name : Fuel Aid Plus
Use of the substance/mixture : Fuel: additive
Product code : 0649-NEW
Company : Total Solutions
P.O. Box 240014

Milwaukee, WI 53224 - USA

T 800-743-6417

athea.com

Contact:Technical Department
: Chemtrec: 1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Emergency number

Flam. Liq. 4 H227 Carc. 2 H351 STOT SE 3 H336 STOT SE 3 H335 Asp. Tox. 1 H304

2.2. Label elements

GHS US labelling

Hazard pictograms (GHS US)





GHS07 GHS08

Signal word (GHS US)

Hazard statements (GHS US)

DangerCombustible liquid

May be fatal if swallowed and enters airways.

May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer.

Precautionary statements (GHS US)

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Immediately call a poison center or doctor.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If exposed or concerned: Get medical advice/attention. Call a poison center or doctor if you feel unwell.

Do NOT induce vomiting.

In case of fire: Use media other than water to extinguish. Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container to hazardous or special waste collection point, in accordance with

local, regional, national and/or international regulation.

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

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Name	Product identifier	%	GHS-US classification
Hydrotreated Light Alkanes	(CAS-No.) 64742-47-8	> 90	Not classified
C9-15 Heavy Aromatic Hydrocarbons	(CAS-No.) 64742-95-6	< 3	Flam. Liq. 3, H226 Muta. 1B, H340
			Carc. 1B, H350 STOT SE 3, H336 STOT SE 3, H335
Butoxyethanol	(CAS-No.) 111-76-2	<3	Asp. Tox. 1, H304 Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Polyolefin alkyl phenol alkyl amine (2)	(CAS-No.) Proprietary	< 2	Not classified
Trimethylbenzene	(CAS-No.) 95-63-6	< 0.6	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 STOT SE 3, H335 Aquatic Chronic 2, H411
Cumene	(CAS-No.) 98-82-8	< 0.5	Flam. Liq. 3, H226 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304

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

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First-aid measures after inhalation

First-aid measures after skin contact

First-aid measures after eye contact

First-aid measures after ingestion

Symptoms/effects after inhalation

Symptoms/effects after skin contact

Symptoms/effects after eye contact

: If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: Get medical advice/attention.

: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of water/.... If skin irritation or rash occurs: Get medical advice/attention.

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

: Rinse mouth with water. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects : If you feel unwell, seek medical advice. Harmful if swallowed. May be fatal if swallowed and enters

airways. Causes skin irritation. Causes eye irritation. May cause drowsiness or dizziness. May cause respiratory irritation. May cause genetic defects (through prolonged or repeated exposure). May cause cancer.

: May cause drowsiness or dizziness. Irritation of the respiratory tract. Headache. Nausea. Central

: Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

nervous system depression. Shortness of breath. Unconsciousness.

: Causes eye irritation.

Symptoms/effects after ingestion : May be fatal if swallowed and enters airways. Risk of aspiration pneumonia.

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 : Dry chemical powder. Carbon dioxide. Alcohol-resistant foam.

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5.2. Special hazards arising from the substance or mixture

Fire hazard Flammable liquid and vapour.

Vapours may travel long distances along ground before igniting/flashing back to vapour source. Explosion hazard

Reactivity Upon combustion: CO and CO2 are formed.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. In case of fire: Evacuate area. Fight fire remotely due

to the risk of explosion. Use water spray or fog for cooling exposed containers. Take account of

environmentally hazardous firefighting water.

Do not enter fire area without proper protective equipment, including respiratory protection. Protection during firefighting

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

Protective equipment Protective goggles. Gloves. Protective clothing.

Emergency procedures Evacuate unnecessary personnel. No naked flames or sparks.

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.

Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

Methods and material for containment and cleaning up

For containment Contain released product, collect/pump into suitable containers.

Methods for cleaning up This material and its container must be disposed of in a safe way, and as per local legislation. Take up

liquid spill into inert absorbent material, e.g.: sand/earth. Clean contaminated surfaces with a soap

solution.

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. Do not breathe vapours. 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. Keep away from sources of ignition - No smoking. Take precautions against electrostatic charges. Obtain special instructions before use. Remove contaminated clothing

immediately.

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

Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be

followed.

Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away Storage conditions from: sparks, open flames, excessive heat.

Strong acids. Oxidizing agents.

Incompatible products Sources of ignition. Heat sources. Incompatible materials

Store away from heat. Store in a cool area. Store in a dry area. Store in a well-ventilated place. Storage area

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Hydrotreated Light Alkanes (64742-47-8)

Not applicable

C9-15 Heavy Aromatic Hydrocarbons (64742-95-6)

Not applicable

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Butoxyethanol (111-76-2)		
ACGIH	ACGIH OEL TWA [ppm]	20 ppm
ACGIH	Remark (ACGIH)	Eye & URT irr
OSHA	OSHA PEL TWA [1]	240 mg/m³
OSHA	OSHA PEL TWA [2]	50 ppm

Cumene (98-82-8)			
ACGIH	ACGIH OEL TWA [ppm]	0.1 ppm	
ACGIH	Remark (ACGIH)	Lung cancer; liver and lung dam; A2 (Suspected Human	
		Carcinogen: Human data are accepted as adequate in	
		quality but are conflicting or insufficient to classify the agent	
		as a confirmed human carcinogen; OR, the agent is	
		carcinogenic in experimental animals at dose(s), by route(s)	
		of exposure, at site(s), of histologic type(s), or by	
		mechanism(s) considered relevant to worker exposure. The	
		A2 is used primarily when there is limited evidence or	
		carcinogenicity in humans and sufficient evidence of	
		carcinogenicity in experimental animals with relevance to	
		humans)	
OSHA	OSHA PEL TWA [1]	245 mg/m³	
OSHA	OSHA PEL TWA [2]	50 ppm	

Polyolefin alkyl phenol alkyl amine (2) (Proprietary)

Not applicable

Trimethylbenzene (95-63-6)

Not applicable

8.2. Exposure controls

Personal protective equipment

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









SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Partition coefficient n-octanol/water (Log Kow)

Auto-ignition temperature

Appearance Clear, amber liquid Odour Hydrocarbon odor Odour threshold No data available No data available Melting point No data available Freezing point No data available Boiling point No data available > 147 °F Closed Cup Flash point Relative evaporation rate (butylacetate=1) No data available Flammability (solid, gas) No data available Explosive limits No data available Explosive properties No data available Oxidising properties No data available No data available Vapour pressure Relative density No data available Relative vapour density at 20 °C No data available Density 0.79 g/ml Solubility Insoluble in water. Partition coefficient n-octanol/water (Log Pow) No data available

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No data available

No data available

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Decomposition temperature : No data available Viscosity : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available : No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Upon combustion: CO and CO2 are formed.

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

Strong acids. Oxidizing agents.

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

C9-15 Heavy Aromatic Hydrocarbons (64742-95-6)	
LD50 oral rat	> 2000 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 3160 mg/kg (Rabbit, Dermal)

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

Trimethylbenzene (95-63-6)		
LD50 oral rat	6000 mg/kg bodyweight (EU Method B.1 tris: Acute oral toxic – Acute toxic class method, Rat,	
	Male, Experimental value, Oral, 014 day(s))	
LD50 dermal rat	3440 mg/kg (24 h, Rat, Male / female, Read-across, Dermal)	
LC50 Inhalation - Rat	> 10.2 mg/l air (4 h, Rat, Male / female, Read-across, Inhalation (vapours), 14 day(s))	
ATE CLP (oral)	6000 mg/kg bodyweight	
ATE CLP (dermal)	3440 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	

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

Butoxyethanol (111-76-2)	
IARC group	3 - Not classifiable

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Cumene (98-82-8)		
IARC group	2B - Possibly carcinogenic to humans	
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen	

Reproductive toxicity : Not classified

STOT-single exposure : May cause drowsiness or dizziness. May cause respiratory irritation.

STOT-repeated exposure : Not classified

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

Symptoms/effects after inhalation : May cause drowsiness or dizziness. Irritation of the respiratory tract. Headache. Nausea. Central

nervous system depression. Shortness of breath. Unconsciousness.

Symptoms/effects after skin contact : Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after eye contact : Causes eye irritation.

Symptoms/effects after ingestion : May be fatal if swallowed and enters airways. Risk of aspiration pneumonia.

Lethal)

12.2. Persistence and degradability		
C9-15 Heavy Aromatic Hydrocarbons (64742-95-6)		
Persistence and degradability	Readily biodegradable in water.	
Trimethylbenzene (95-63-6)		
Persistence and degradability	Not readily biodegradable in water.	
Chemical oxygen demand (COD)	0.44 g O ₂ /g substance	

12.3. Bioaccumulative potential	
C9-15 Heavy Aromatic Hydrocarbons (64742-95-6)	
Partition coefficient n-octanol/water (Log Pow)	>3

Trimethylbenzene (95-63-6)	
BCF - Fish [1]	243 (Pimephales promelas, QSAR)
Partition coefficient n-octanol/water (Log Pow)	3.63 (Experimental value, KOWWIN)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT: Not regulated for transport

Additional information

Other information

: When transported by ground in non-bulk containers, this product utilizes the exception found under 49 CFR 173.150. 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

No additional information available

SECTION 15: Regulatory information

All components of this product are listed, 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%
Cumene	98-82-8	< 0.5%
Trimethylbenzene	95-63-6	< 0.6%

	Cumene	(98-82-8)	CERCLA RQ5000 lb



This product can expose you to Cumene, which is known to the State of California to cause cancer. 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.

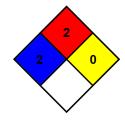
NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual

injury.

NFPA fire hazard : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures

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.

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