Safety Data Sheet



## SECTION 1: Product and company identification

Product name	: Fuel Aid Plus
Use of the substance/mixture	: Fuel: additive
Product code	: 0649
Company	: Total Solutions P.O. Box 240014 Milwaukee, WI 53224 –USA T (414) 354-6417
Emergency number	: Chemtrec: (800) 424-9300

#### **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

### **GHS-US** classification

Flam. Liq. 3	H226
Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Dermal)	H312
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Muta. 1B	H340
Carc. 1B	H350
STOT SE 3	H335
STOT SE 3	H336
Asp. Tox. 1	H304

## 2.2. Label elements

**GHS-US** labeling Hazard pictograms (GHS-US)

Hazard pictograms (GHS-US)			
nazaru pictograms (Chio CO)			
Signal word (GHS-US)	GHS02 GHS07 : Danger	GHS08	
Hazard statements (GHS-US)	<ul> <li>Flammable liquid and vapor Harmful if swallowed or in co May be fatal if swallowed and Causes skin irritation Causes serious eye irritation May cause respiratory irritatio May cause drowsiness or diz May cause genetic defects May cause cancer</li> </ul>	d enters airways	
Precautionary statements (GHS	Do not handle until all safety Keep away from heat, open f Keep container tightly closed Ground/Bond container and r Use explosion-proof electrica Use only non-sparking tools. Take precautionary measure Avoid breathing mist, spray. Wash thoroughly after handli Do not eat, drink or smoke w Use only outdoors or in a wel Wear eye protection, protecti If swallowed: Immediately ca If on skin (or hair): Take off in water/shower If inhaled: Remove person to	precautions have been read and understood. lames, sparks No smoking. receiving equipment II, lighting equipment s against static discharge. ng hen using this product. II-ventilated area. ve clothing, protective gloves. II a doctor, a POISON CENTER nmediately all contaminated clothing. Rinse skin with fresh air and keep comfortable for breathing ith water for several minutes. Remove contact lense sing t medical advice/attention. NTER if you feel unwell	
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Take off contaminated clothing and wash it before reuse. In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, foam to extinguish. Store in a well-ventilated place. Keep container tightly closed. Keep cool. 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

Full text of H-phrases: see section 16

Name	Product identifier	%	GHS-US classification
SOLVESSO 100	(CAS-No.) 64742-95-6	50-100	Flam. Liq. 3, H226 Muta. 1B, H340 Carc. 1B, H350 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304
Trimethylbenzene	(CAS-No.) 25551-13-7	40-70	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Asp. Tox. 1, H304
cumene	(CAS-No.) 98-82-8	4-10	Flam. Liq. 3, H226 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304
xylene	(CAS-No.) 1330-20-7	0.5-5	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
cymenes	(CAS-No.) 25155-15-1	0.5-1.5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	(CAS-No.) 64742-47-8	1-5	Flam. Liq. 4, H227 Asp. Tox. 1, H304

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). IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	<ul> <li>If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.</li> </ul>
First-aid measures after skin contact	: Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water. If skin irritation or rash 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. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth with water. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.
4.2. Most important symptoms and ef	fects, 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.
Symptoms/effects after inhalation	<ul> <li>May cause drowsiness or dizziness. Irritation of the respiratory tract. Headache. Nausea. Central nervous system depression. Shortness of breath. Unconsciousness.</li> </ul>
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.

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## **4.3.** Indication of any immediate medical attention and special treatment needed Treat symptomatically.

ECTION 5: Firefighting meas	
5.1. Extinguishing media Suitable extinguishing media	: Dry chemical powder. Carbon dioxide. Alcohol-resistant foam.
5.2. Special hazards arising from th	
Fire hazard	: Flammable liquid and vapor.
Explosion hazard	: vapors may travel long distances along ground before igniting/flashing back to vapor source.
Reactivity	: Upon combustion: CO and CO2 are formed.
5.3. Advice for firefighters	
Firefighting instructions	<ul> <li>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.</li> </ul>
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release	e measures
5.1. Personal precautions, protecti	ive equipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges.
6.1.1. For non-emergency personn	el
Protective equipment	: Protective goggles. Gloves. Protective clothing.
Emergency procedures	: Evacuate unnecessary personnel. No naked flames or sparks.
Incryency procedures	. L'racuale uninecessary personnel. No naneu names or spains.
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.
5.3. Methods and material for cont For containment Methods for cleaning up	<ul> <li>tainment and cleaning up</li> <li>Contain released product, pump into suitable containers.</li> <li>This material and its container must be disposed of in a safe way, and as per local legislation. Take</li> </ul>
Methods for cleaning up	Inis 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.
6.4. Reference to other sections No additional information available	
SECTION 7: Handling and stor	rage
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 vapors. 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.
7.2 Conditions for safe storage in	cluding any incompatibilities
.2. Conditions for safe storage, inc	: Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be
	followed.
Fechnical measures	<ul><li>followed.</li><li>Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away from: sparks, open flames, excessive heat.</li></ul>
echnical measures	: Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away
Fechnical measures Storage conditions ncompatible products	: Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away from: sparks, open flames, excessive heat.
Technical measures Storage conditions Incompatible products Incompatible materials Storage area	<ul> <li>Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away from: sparks, open flames, excessive heat.</li> <li>Strong acids. Oxidizing agents.</li> </ul>

### 8.1. Control parameters

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Trimethylbenzene	(25551-13-7)	
ACGIH	ACGIH TWA (ppm)	25 ppm
ACGIH	Remark (ACGIH)	CNS impair; asthma; hematologic eff
cumene (98-82-8)		
ACGIH	ACGIH 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) (mg/m <sup>3</sup> )	245 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	50 ppm
xylene (1330-20-7)		
ACGIH	ACGIH TWA (ppm)	100 ppm
ACGIH	ACGIH STEL (ppm)	150 ppm
ACGIH	Remark (ACGIH)	URT & eye irr; CNS impair
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	100 ppm

## 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**

ical properties
: Liquid
: Yellow. clear.
: solvent odor
: No data available
: 118 °F Closed Cup
: No data available
: 0.86 g/ml
: Insoluble in water.
: No data available

TOTAL	
SOLUTIONS"	

Safety Data Sheet		SOLUTIONS"
Log Kow	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity	: No data available	
Viscosity, kinematic	: < 20 cSt	
Viscosity, dynamic	: No data available	
SECTION 10: Stability and reactivit	у	
10.1. Reactivity		
Upon combustion: CO and CO2 are formed.		
<b>10.2.</b> Chemical stability Stable under normal conditions.		
<b>10.3. Possibility of hazardous reactions</b> Refer to section 10.1 on Reactivity.		
<b>10.4. Conditions to avoid</b> No additional information available		
<b>10.5.</b> 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.	
<b>SECTION 11: Toxicological informa</b>	tion	
<b>11.1. Information on toxicological effects</b>		
Acute toxicity	: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin.	
SOLVESSO 100 (64742-95-6)		
LD50 oral rat	> 2000 mg/kg (Rat)	
LD50 dermal rabbit	> 3160 mg/kg (Rabbit)	
Trimethylbenzene (25551-13-7)		
LD50 oral rat	500 mg/kg	
LD50 dermal rabbit	1100 mg/kg	
xylene (1330-20-7)		
LC50 inhalation rat (ppm)	4550 ppmV/4h	
ATE CLP (dermal)	1100 mg/kg body weight	
ATE CLP (gases)	4550 ppmV/4h	
ATE CLP (dust, mist)	1.5 mg/l/4h	
cymenes (25155-15-1)		
LD50 oral rat	> 2000 mg/kg (Rat)	
hydrocarbons, C11-C14, n-alkanes, isoa	lkanes, cyclics, < 2% aromatics (64742-47-8)	
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit, Literature)	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: May cause genetic defects.	
Carcinogenicity	: May cause cancer.	
cumene (98-82-8)		
IARC group	2B - Possibly carcinogenic to humans	
xylene (1330-20-7)		
IARC group	3 - Not classifiable	
Reproductive toxicity	: Not classified	·,
Specific target organ toxicity - single exposu	re : May cause respiratory irritation. May cause drowsiness or dizziness.	
Specific target organ toxicity – repeated exposure	: Not classified	
Aspiration hazard	: May be fatal if swallowed and enters airways.	



	: May cause drowsiness or dizziness. Irritation of the	respiratory tract Headacha Neusoa
symptoms/effects after inhalation	Central nervous system depression. Shortness of b	
symptoms/effects after skin contact	: Causes skin irritation. Repeated exposure may cau	ise skin dryness or cracking.
ymptoms/effects after eye contact	: Causes eye irritation.	
ymptoms/effects after ingestion	: May be fatal if swallowed and enters airways. Risk	of aspiration pneumonia.
ECTION 12: Ecological informat	ion	
2.1. Toxicity		
SOLVESSO 100 (64742-95-6)		
LC50 fish 1	18 mg/l (Pisces)	
EC50 Daphnia 1	21 mg/l (Daphnia sp.)	
nydrocarbons, C11-C14, n-alkanes, isoa	alkanes, cyclics, < 2% aromatics (64742-47-8)	
LC50 fish 1	> 100 mg/l (Pisces)	
EC50 Daphnia 1	> 100 mg/l (Invertebrata)	
2.2. Persistence and degradability		
SOLVESSO 100 (64742-95-6)		
Persistence and degradability	Readily biodegradable in water.	
cymenes (25155-15-1)		
Persistence and degradability	Biodegradability in water: no data available.	
nydrocarbons, C11-C14, n-alkanes, isoa	alkanes, cyclics, < 2% aromatics (64742-47-8)	
Persistence and degradability	Readily biodegradable in water.	
2.3. Bioaccumulative potential		
SOLVESSO 100 (64742-95-6)		
Log Pow	>3	
cymenes (25155-15-1)		
Bioaccumulative potential	No bioaccumulation data available.	
•	Ikanes, cyclics, < 2% aromatics (64742-47-8)	
Log Pow	6 - 8.2	
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).	
ECTION 12. Dispession and the side of	•••••	
ECTION 13: Disposal consideration	lions	
3.1. Waste treatment methods roduct/Packaging disposal	: Dispose in a safe manner in accordance with local/nation	onal regulations.
commendations ECTION 14: Transport informat	ion	
commendations ECTION 14: Transport informat epartment of Transportation (DOT)	ion	
commendations ECTION 14: Transport informat epartment of Transportation (DOT) dditional information	tion : When transported by ground in non-bulk containers, thi 49 CFR 173.150. If any alteration of packaging, produc intended, different shipping names and labeling may be	t, or mode of transportation is further
Ecommendations ECTION 14: Transport informat epartment of Transportation (DOT) dditional information ther information DR	: When transported by ground in non-bulk containers, thi 49 CFR 173.150. If any alteration of packaging, production	t, or mode of transportation is further
commendations ECTION 14: Transport informate epartment of Transportation (DOT) dditional information ther information DR o additional information available	: When transported by ground in non-bulk containers, thi 49 CFR 173.150. If any alteration of packaging, production	t, or mode of transportation is further
ECTION 14: Transport informat epartment of Transportation (DOT) dditional information ther information DR o additional information available ransport by sea	: When transported by ground in non-bulk containers, thi 49 CFR 173.150. If any alteration of packaging, production	t, or mode of transportation is further
ECTION 14: Transport informations ECTION 14: Transport information epartment of Transportation (DOT) dditional information ther information ther information b c additional information available ransport by sea o additional information available	: When transported by ground in non-bulk containers, thi 49 CFR 173.150. If any alteration of packaging, production	t, or mode of transportation is further
ECTION 14: Transport informat epartment of Transportation (DOT) dditional information ther information DR o additional information available ransport by sea o additional information available ir transport	: When transported by ground in non-bulk containers, thi 49 CFR 173.150. If any alteration of packaging, production	t, or mode of transportation is further
ECTION 14: Transport informations ECTION 14: Transport information Epartment of Transportation (DOT) dditional information ther information DR o additional information available ransport by sea o additional information available ir transport o additional information available	: When transported by ground in non-bulk containers, thi 49 CFR 173.150. If any alteration of packaging, produc intended, different shipping names and labeling may be	t, or mode of transportation is further
ECTION 14: Transport informat epartment of Transportation (DOT) dditional information ther information 0 additional information available ransport by sea 0 additional information available ir transport 0 additional information available ECTION 15: Regulatory informa Il components of this product are listed,	: When transported by ground in non-bulk containers, thi 49 CFR 173.150. If any alteration of packaging, produc intended, different shipping names and labeling may be	t, or mode of transportation is further a required.
ECTION 14: Transport information ECTION 14: Transport information Department of Transportation (DOT) diditional information other information DR Io additional information available iransport by sea Io additional information available ir transport Io additional information available ECTION 15: Regulatory information All components of this product are listed, Control Act (TSCA) inventory.	: When transported by ground in non-bulk containers, thi 49 CFR 173.150. If any alteration of packaging, produc intended, different shipping names and labeling may be	t, or mode of transportation is further e required. Protection Agency Toxic Substances

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Version: 1.2

P GHS SDS

## Fuel Aid Plus Safety Data Sheet



cumene	CAS-No. 98-82-8	4-10%
xylene	CAS-No. 1330-20-7	0.5-5%

1,2,4-trimethylbenzene (95-63-6)	
Subject to reporting requirements of United State	s SARA Section 313
cumene (98-82-8)	
Subject to report on a subsequents of United States CARA Costion 242	

Subject to reporting requirements of United States SARA Section 313		
CERCLA RQ	5000 lb	

xylene (1330-20-7)			
Subject to reporting requirements of United States SARA Section 313			
CERCLA RQ	100 lb		

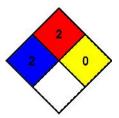
This product can expose you to benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

<b>SECTION 16: Other information</b>	n	
Training advice	:	Normal use of this product shall imply use in accordance with the instructions on the packaging.

#### Full text of H-phrases:

H226	Flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer
H351	Suspected of causing cancer

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