

Section 1: Product and Company Identification

Product Name	FSC-08	Multifunctional Fuel Additive
Manufacturer/Distributor	SPP Ventures, LLC PO Box 11011 Spring, Texas 77391	Phone: (832) 965-5132 Email: steve@synmaxx.com Website: synmaxx.com
Phone Numbers		
Product Information	1-386-271-7000	
Medical Emergency	1-800-424-9300 1-703-527-3887	

Section 2: Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

GHS Classification of the product:

Flammable Liquids:	Category 3
Acute toxicity, Oral	Category 4
Acute toxicity, Inhalation	Category 4
Acute toxicity, Dermal	Category 4
Skin Corrosion/Irritation:	Category 2
Serious Eye Damage/Irritation:	Category 1
Aspiration Toxicity:	Category 1
Carcinogenicity:	Category 2
Toxicity to Reproduction (Fertility):	Category 2
STOT - Single Exposure (Narcotic Effects):	Category 3
STOT - Repeated Exposure (Narcotic Effects):	Category 2
Aquatic Acute Hazardous to the aquatic environment:	Category 3
Aquatic Chronic Hazardous to the aquatic environment:	Category 2

Label Elements:

Pictogram:



Signal Word: Danger**Hazard Statements:**

H226 Flammable liquid and vapor
H304 May be fatal if swallowed and enters airways
H312 Harmful in contact with skin
H315 Causes skin irritation
H318: Causes serious eye damage
H332 Harmful if inhaled
H336 May cause drowsiness or dizziness
H351 Suspected of causing cancer
H361 Suspected of damaging fertility or the unborn child
H373: May cause damage to organs through prolonged or repeated exposure
H401: Toxic to aquatic life
H411 Toxic to aquatic life with long lasting effects

Precautionary Statements (Prevention):

P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking
P233 Keep container tightly closed
P240 Ground/bond container and receiving equipment
P241 Use explosion-proof electrical/ventilating/lighting/equipment
P242 Use only non-sparking tools
P243 Take precautionary measures against static discharge
P260: Do not breathe dust/fumes/gas/mist/vapors/spray..
P264: Wash skin thoroughly after handling
P270: Do not eat, drink or smoke when using this product
P271: Use only outdoors or in a well-ventilated area
P272: Contaminated work clothing should not be allowed out of the workplace
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements (Response):

P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P301 + P312 + P330 + P331 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 + P363 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

Precautionary Statements (Storage):

P405 Store locked up

P403 + P233 + P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified: None known

HMIS Rating:**Health: 2****Flammability: 3****Reactivity: 0****PPE: B****Section 3: Composition/ Information on Ingredients**

Substance/Mixture: Mixture

Components	CAS Number	Wt%
Solvent Naphtha (Petroleum), Light Aromatic	64742-95-6	35 - 55
(1,2,4-Trimethylbenzene)	95-63-6	(< 20)
(Xylenes)	1330-20-7	(0.5 - 1.5)
(Cumene)	98-82-8	(< 1)
2-Butoxyethanol	111-76-2	20 - 30
Polyetheramine	224622-34-8	1 - 10
Kerosene (petroleum), hydrodesulfurized	64742-81-0	0 - 1
Naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	0 - 1
Diethanolamine	111-42-2	0.5 – 1.5
Proprietary Additive	Trade Secret	0 - 1
Proprietary Amide	Trade Secret	20 – 30

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i)

Section 4: First Aid Measures**Inhalation**

Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice.

Skin Contact

Take off contaminated clothing. Wash skin with soap and plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Wash clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of properly. Suitable emergency safety shower facility should be immediately available.

Eye Contact

Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

Ingestion

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed: Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Notes to Physicians

Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. Probable mucosal damage may contraindicate the use of gastric lavage. If burn is present, treat as any thermal burn, after decontamination. Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Protection for first-aiders: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Section 5: Fire Fighting Measures**Flammable Properties:**

Flash Point: >100°F (> 38°C) (**Method:** Closed Cup)

Burn Rate: Unknown

Flammable Limits:

Lower Flammable Limit: Not Established

Upper Flammable Limit: Not Established

Flammability Classification: Flammable Liquid

Autoignition Temperature: Not Established

Hazardous Combustion Products: Carbon Monoxide, Carbon Dioxide, Oxides of Nitrogen

Extinguishing Media: Water Spray, Alcohol Resistant Foam, Dry Chemical, and CO₂.

Additional Considerations: Risk of explosion if heated under confinement.

Fire Fighting Instructions: Evacuate personnel to safe area. Wear self-contained breathing apparatus. Cool tank/container with water spray. Fight fire from maximum distance, use extreme caution as heat may decompose material and rupture containers.

NFPA Rating:

Health: 2

Flammability: 3

Reactivity: 0

PPE: C

Section 6: Accidental Release Measures

Note: Review Fire Fighting Measures and Handling (Personnel) Sections before proceeding with clean up. Use appropriate Personal Protective Equipment during clean up. Soak up with sawdust, sand, oil dry or other absorbent material. Remove source of heat, sparks, flame, impact, friction, or electricity. Dike spill. Prevent material from entering sewers, waterways, or low areas. Spills or discharge to natural waterways is likely to kill aquatic organisms.

Spill Clean-Up

Soak up with sawdust, sand, oil dry or other absorbent material.

Accidental Release Measures

Spills are very slippery and should be cleaned up promptly. Unless released material is cleaned up immediately for reprocessing, recycling, or reuse, a release of 100 lbs. may trigger the reporting requirements of CERCLA Section 103.

Section 7: Handling and Storage

Handling: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Avoid temperatures above 100°C (212°F).

Incompatible materials: Strong oxidizers.

Special Packaging Materials: Not applicable

Section 8: Exposure Control/ Personal Protection

Engineering Controls

Use only with adequate ventilation. Keep container tightly closed. Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Personal Protective Equipment

Eye/Face Protection: Wear coverall chemical splash goggles or safety glasses.

Skin Protection: Where there is potential for skin contact have available and wear as appropriate impervious gloves, apron, pants, hood and jacket.

Respirators: Where there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection. For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

Exposure Limits

Solvent naphtha (petroleum), light aromatic:

PEL (OSHA):	500 ppm, TWA
TLV (ACGIH):	None established

Xylene:

PEL (OSHA):	100 ppm, 435 mg/m ³ , 8 hr TWA
TLV (ACGIH):	100 ppm, 434 mg/m ³ , 8 hr TWA STEL 150 ppm, 651 mg/m ³ , A4

1, 2, 4-trimethylbenzene:

PEL (OSHA):	None established
TLV (ACGIH):	25 ppm, 8 hr TWA

2-Butoxyethanol:

PEL (OSHA):	50 ppm, 8 hr TWA, Skin
TLV (ACGIH):	20 ppm, 8 hr TWA

Proprietary Amide:

PEL (OSHA):	Not available
TLV (ACGIH):	Not available

Kerosene (petroleum), hydrodesulfurized:

TLV (ACGIH): Not specified

Naphtha (petroleum), hydrodesulfurized heavy:

TLV (ACGIH): Not specified

Diethanolamine:

PEL (OSHA):	3 ppm, 15 mg/m ³ , 8 hr, TWA
TLV (ACGIH):	0.46 ppm, 2 mg/m ³ 8 hr, TWA
	1 mg/m ³ Inhalable fraction and vapor

Section 9: Physical and Chemical Properties

Appearance:	Amber Liquid
Odor:	Ether like
Physical State:	Liquid
pH:	Not Available
Boiling Point:	Not Available
Pour Point:	Not Available
Flash Point, °F (°C) (Method: PMCC):	> 100 (> 38)
Solubility in Water:	Partially soluble in following: Cold Water, Hot Water
Vapor Pressure (mm Hg):	Not Available
Specific Gravity:	0.905 @ 60/60°F (16/16°C)
Density (lb/gal):	7.55 @ 60°F (16°C)
Viscosity (cSt):	Not Available

Section 10: Stability and Reactivity

Chemical Stability: Product is stable under normal temperatures and storage conditions.

Conditions to avoid: Exposure to elevated temperatures can cause product to decompose. Potentially violent decomposition can occur above 100°C (212°F). Generation of gas during decomposition can cause pressure in closed systems. Pressure build-up can be rapid.

Incompatibility with other Materials: Avoid contact with oxidizing materials. Avoid contact with strong acids and strong bases.

Hazardous Decomposition Products: Decomposition products depend upon temperature, air supply and the presence of other materials. Toxic flammable gases can be released during decomposition. Hazardous gases/vapors produced include oxides of nitrogen and carbon monoxide.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Information on Amide:

Acute oral toxicity: Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

Acute dermal toxicity: Prolonged or widespread skin contact may result in absorption of harmful amounts.

Acute inhalation toxicity: Vapor from heated material or mist may cause respiratory irritation. For narcotic effects: No specific, relevant data available for assessment.

Animal Data

Oral LD50: > 5000 mg/kg (Method: Calculation)

Skin corrosion/irritation: Brief contact may cause severe skin irritation with pain and local redness. Repeated contact may cause skin burns. Symptoms may include pain, severe local redness, swelling, and tissue damage.

Serious eye damage/eye irritation: Risk of serious damage to eyes

Sensitization: Does not cause skin sensitization. **For respiratory sensitization:** No relevant data found.

Specific Target Organ Systemic Toxicity (Single Exposure): No data available,

Specific Target Organ Systemic Toxicity (Repeated Exposure): No data available

Carcinogenicity: No relevant data found.

Teratogenicity: No data available.

Reproductive toxicity: No data available.

Mutagenicity: No data available.

Aspiration Hazard: May be harmful if swallowed and enters airways.

Information on Diethanolamine:

Animal Data

Skin absorption LD50: 12,200 mg/kg in rabbits
Oral ALD: 2,200 mg/kg in Rabbit; 3,300 mg/kg in Mouse

Skin corrosion/irritation: Brief contact may cause severe skin irritation with pain and local redness. Repeated contact may cause skin burns. Symptoms may include pain, severe local redness, swelling, and tissue damage.

Serious eye damage/eye irritation: Risk of serious damage to eyes

Sensitization: Does not cause skin sensitization. **For respiratory sensitization:** No relevant data found.

Specific Target Organ Systemic Toxicity (Single Exposure): No data available,

Specific Target Organ Systemic Toxicity (Repeated Exposure): No data available

Carcinogenicity: Group 2B: Possibly carcinogenic to humans. Diethanolamine (CAS# 111-42-2)

Teratogenicity: No data available.

Reproductive toxicity: No data available.

Mutagenicity: No data available

Aspiration Hazard: May be harmful if swallowed and enters airways.

Information on 2-Butoxyethanol:

Acute oral toxicity: Harmful if swallowed.

Acute dermal toxicity: Harmful in contact with skin.

Acute inhalation toxicity: Harmful if inhaled.

Animal Data

Inhalation 4 hour LC50:	450 ppm in rats
Skin Absorption LD50:	>2,000 mg/kg in rabbits
Oral LD50:	1,746 mg/kg in rats

Skin corrosion/irritation: Causes skin irritation

Serious eye damage/eye irritation: Causes serious eye irritation.

Sensitization: Not classified

For respiratory sensitization: Not classified.

Specific Target Organ Systemic Toxicity (Single Exposure): May cause drowsiness or dizziness

Specific Target Organ Systemic Toxicity (Repeated Exposure): Not classified

Carcinogenicity: Not classified.

Teratogenicity: Not classified.

Reproductive toxicity: Not classified.

Mutagenicity: Not classified.

Aspiration Hazard: Not classified.

Information on Xylenes:**Animal Data****Xylene (mixed isomers):**

Inhalation 4 hour LC50: 6,700 ppm in rats
Skin absorption LD50: 4,320 mg/kg in rabbits
Oral ALD: 4,500 mg/kg in rats

Aspiration Hazard: Xylenes: Aspiration Hazard Category 1

Information (Animal Data) on Polyetheramine:

Oral LD50: >2,000 mg/kg in rats

Skin corrosion/irritation: Causes skin irritation. pH: No data available

Serious eye damage/irritation: Non-irritant. pH: No data available

Respiratory or skin sensitization: Based on the ingredients, there is no suspicion of a skin-sensitizing potential.

Germ cell mutagenicity: No additional data available.

Carcinogenicity: No data available.

Reproductive toxicity: Based on the ingredients, there is no suspicion of a toxic effect on reproduction

Specific target organ toxicity (repeated exposure): CNS effects

Other relevant toxicity information: The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

Section 12: Ecological Information**Information on Diethnolamine:**

Acute Aquatic Toxicity: Toxic to aquatic life.

Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects.

Ecotoxicity:

Pimephales promelas (LC50) 96 hour(s):	100 mg/l
Daphnia magna (LC50) 96 hour(s):	100 mg/l
Pimephales promelas (LC50) 96 hour(s):	>100 mg/l
Daphnia magna (LC50) 96 hour(s):	>100 mg/l
Pimephales promelas (LC50) 96 hour(s):	1370 mg/l
Pimephales promelas (LC50) 96 hour(s):	1480 mg/l

Persistence and degradability:

Biodegradability: Readily biodegradable.

Bioaccumulative Potential:

Bioaccumulation: Not expected considering the low log Pow value

Mobility in soil: The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.

Information on Amide:**Ecotoxicity:**

Fish (LC50) 96 hours: > 1 - 10 mg/l (Analogy)

Persistence and degradability:

Biodegradability: Readily biodegradable (Analogy).

Bioaccumulative Potential:

Bioaccumulation: No data available

Mobility in soil: No data available

Information on 2-Butoxyethanol:

Aquatic Toxicity: Toxicity to fish: LC50: 1,490 mg/l

Information on Xylene:

96 hour LC50, fathead minnow: 27-42 mg/L

Information on Polyetheramine:

96 hours Acute LC50, Fish : 10 - 100 mg/l

Microorganisms/Effect on activated sludge: No data available

Persistence and degradability: The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation..

Bioaccumulative potential: The product contains components with potential for bioaccumulation.

Mobility in soil: No data available

Additional information: Other ecotoxicological advice: The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components. Prevent product from entering soil, natural bodies of water and sewer systems. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Section 13: Disposal Considerations

Waste Disposal: Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial and Local regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. For unused & uncontaminated product, the preferred option is to contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. The preferred option in other jurisdictions is to contact the regulatory authority for this product for guidance. Incinerator or other thermal destruction device.

Section 14: Transport Information**DOT**

Proper Shipping Name: Flammable liquids, n.o.s. (Solvent naphtha (petroleum), light aromatic, Xylene)
Hazard Class: 3
I.D. No. (UN/NA): UN1993
Packing Group: III
Special Information:
 Reportable Quantity: Xylene: 100 lbs; Cumene: 5000 lbs
 Marine Pollutant: Yes
DOT Label(s): Flammable liquid, Marine Pollutant

IMO/IMDG

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (Solvent naphtha (petroleum), light aromatic, Xylene)
Hazard Class: 3
I.D. No. (UN/NA): UN1993
Packing Group: III
Special Information:
 Flash Point: >38°C
 Reportable Quantity: Xylene: 100 lbs; Cumene: 5000 lbs
Marine Pollutant: Yes
IMO Label(s): Flammable liquid, Marine Pollutant

IATA/ICAO

Proper Shipping Name: Flammable liquid, n.o.s. (Solvent naphtha (petroleum), light aromatic, Xylene)
Hazard Class: 3
I.D. No. (UN/NA): UN1993
Packing Group: III
IATA Label(s): Flammable liquid, Marine Pollutant

Section 15: Regulatory Information

U.S. Federal Regulations:

TSCA: All components appear/exempt in TSCA Inventory

Clean Water Act (CWA): Glycol Ether, Xylene.

CERCLA SARA HAZARD CATEGORY:

Section 311 and 312: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: Acute Health Hazard, Chronic Health Hazard, Fire Hazard

Section 313: This product contains following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: 2-Butoxyethanol (20 - 30%). Diethanolamine (0.5 - 1.50%); Proprietary Additive (0- 1%); Xylene (0.5 – 1.5%); Cumene (< 1%)

RQ: 2-Butoxyethanol: 1,000 lbs; Diethanolamine: 100 lbs; Xylene: 100 lbs; Cumene: 5,000 lbs

State regulations:

1,2,4-trimethylbenzene, Xylene, Cumene, 2-Butoxyethanol can be found on one or more of the following states right to know lists: New York, New Jersey, Pennsylvania, Massachusetts

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm; which would require a warning under the statute: Cumene, Diethanolamine

International Regulations:

Canadian WHMIS: Information available upon request.

Canadian Environmental Protection Act (CEPA): Information available upon request.

EINECS: Information available upon request.

Section 16: Other Information

The information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of AFD Technologies, Inc. The Data on this sheet related only to the specific material designed herein. AFD Technologies, Inc. assumes no legal responsibility for the use or reliance on this data.

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