

SAFETY DATA SHEET

1. Identification

Product Name:	Flo-Max Concentrate	Producer:	ET Products, LLC
Product Number:	#1295	Address:	PO Box 100, 747 Douglas Road Bremen, IN 46506
Recommended use:	Diesel Fuel Additive	Telephone:	800-325-5746 (general inquiries)
<i>24-Hour Emergency Response Number: 800-424-9300 CHEMTREC®</i>			

2. Hazard(s) identification

Classification:

Physical, Flammable Liquids - Category 3
Health, Aspiration hazard - Category 1
Health, Carcinogenicity - Category 2
Health, Serious Eye Damage/Eye Irritation - Category 2A
Health, Skin corrosion/irritation - Category 2
Health, Specific target organ systemic toxicity (single exposure) - Category 3 (narcotic effects)
Environmental, Hazards to the aquatic environment - Acute, - Category 2
Environmental, Hazards to the aquatic environment - Chronic, Category 2

Labeling:

Pictograms:



Signal Word:

WARNING

Hazard Statements:

H226 - Flammable liquid and vapor
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H318 - Causes serious eye damage
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H351 - Suspected of causing cancer
H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements:

Prevention:

P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P241 - Use explosion-proof electrical/ventilating/light/equipment.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
P302+352 - IF ON SKIN: Wash with soap and water.
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue Rinsing.

P362: Take off contaminated clothing and wash before reuse.

P370+P378: IN CASE OF FIRE: Use water spray, carbon dioxide, dry chemical or alcohol foam for extinction.

P391 - Collect spillage.

Storage:

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

Disposal:

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

3. Composition / Information on ingredients

Components	CAS No.	% Volume	
		Min	Max
Petroleum Naphtha	64742-95-6	3.90	90.13
Trimethylbenzene	25551-13-7	13.57	40.18
1,2,4-Trimethylbenzene	95-63-6	5.15	23.50
Non Hazardous Additives (Proprietary)	Proprietary	-	16.25
Xylene	1330-20-7	0.52	3.66
Cumene	98-82-8	0.52	2.56
Alkylphenol	Confidential	0.69	1.55
Cymenes	25155-15-1	0.26	1.16
Heavy Aromatic Naphtha (aka Petroleum Naphtha)	64742-94-5	0.34	0.76
Benzene, ethylenated, residues, distn. Lights	178535-25-6	0.34	0.76
1,2,3-Trimethylbenzene	526-73-8	0.17	0.51
1,3,5-Trimethylbenzene	108-67-8	0.17	0.51
Ethylbenzene	100-41-4	-	0.26
Naphthalene	91-20-3	0.03	0.25
Triethylbenzene	102-25-0	-	0.25
Diethylbenzene	25340-17-4	-	0.10
Vinyl Acetate	108-05-4	-	0.07
Toluene	108-88-3	-	0.05
Benzene	71-43-2	-	0.004

(See Section 8 for Exposure Controls.)

4. First-aid measures

Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin contact:	IF ON SKIN: Wash with soap and water.
Eye contact:	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue Rinsing.
Ingestion:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

5. Firefighting measures

Suitable extinguishing media:	IN CASE OF FIRE: Use water spray, carbon dioxide, dry chemical or alcohol foam for extinction.
Unsuitable extinguishing media:	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards in case of fire:	<p>Combustion may produce CO_x, reactive hydrocarbons, irritating vapors, and other decomposition products in the case of incomplete combustion.</p> <p>Extremely flammable. Vapors form flammable or explosive mixtures with air at room temperature. Vapor or gas may spread to distant ignition sources and flash back.</p> <p>Static accumulator (nonconductive) flammable or combustible material may form ignitable vapor-air mixtures in storage tanks. Bonding and grounding may be insufficient to eliminate the hazard from static accumulation.</p> <p>Explosion hazard if exposed to extreme heat.</p>
Special protective equipment and precaution for fire fighters:	<p>Evacuate area and fight fire from a safe distance.</p> <p>If leak or spill has not ignited, ventilate area and use water spray to disperse gas or vapor, cool adjacent structures, and to protect personnel attempting to stop a leak.</p> <p>Shut off source of flow, if possible.</p> <p>Stay away from storage tank ends. Withdraw immediately in case of rising sound from venting safety device or any discoloration of storage tank due to fire. Always stay away from tanks engulfed in flame.</p> <p>Firefighters must wear NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.</p>

6. Accidental release measures

Personal precautions:	<p>Use special care to avoid static electric charges. Keep away from open flames, hot surfaces and sources of ignition. No smoking.</p> <p>Use appropriate personal protection equipment (PPE).</p> <p>Evacuate unnecessary personnel.</p> <p>Ventilate area. Eliminate ignition sources. Stop leak if safe to do so.</p>
Environmental precautions:	Prevent entry to sewers and public waters.
Methods and materials for containment and cleaning up:	<p>Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Use only non-sparking tools.</p> <p>Clear up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Use explosion-proof equipment.</p> <p>See Section 8 Exposure Controls and Personal Protection for additional information.</p>

7. Handling and storage

Precautions for safe handling:	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Use explosion-proof electrical/ventilating/light/equipment. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Conditions for safe storage:	Store in a well-ventilated place. Keep container tightly closed. Keep cool. See Section 10 for incompatible materials.

8. Exposure controls / personal protection

Exposure Limits:

Component	OSHA		ACGIH	
	TWA	STEL	TWA	STEL
1,2,3-Trimethylbenzene	N/E	N/E	25 ppm	N/E
1,2,4-Trimethylbenzene	N/E	N/E	25 ppm	N/E
1,3,5-Trimethylbenzene	N/E	N/E	25 ppm	N/E
Benzene	5 ppm	5 ppm	0.5ppm (s)	2.5ppm (s)
Cumene	50 ppm (s)	N/E	50 ppm	N/E
Ethylbenzene	100 ppm	125 ppm	100 ppm	125 ppm
Light Aromatic Naphtha	500 ppm	N/E	N/E	N/E
Naphthalene	10 ppm	15 ppm	10 ppm (s)	15 ppm (s)
Petroleum Naphtha	N/E	N/E	N/E	N/E
Toluene	100 ppm	150 ppm	20 ppm	N/E
Trimethylbenzene	25 ppm	N/E	25 ppm	N/E
Vinyl Acetate	10 ppm	20 ppm	10 ppm	15 ppm
Xylene	100 ppm	150 ppm	100 ppm	150 ppm

(s) – Skin exposure N/E – None established

Engineering Controls:	Ventilation:	Use local exhaust ventilation to control mists or vapors. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.
Personal Protective Equipment (PPE):	Skin Protection:	Nitrile Gloves. Long sleeve shirt is recommended. Wear either a chemical protective suit or apron when potential for contact with material exists.
	Eye Protection:	Safety glasses. If potential for splash or mist exists, wear goggles or face shield.
	Respiratory Protection:	Under normal use conditions, with adequate ventilation, no special handling equipment is required. If anticipating close contact with this product or its mist, local ventilation may be required to keep exposure below limits. Use NIOSH/MSHA approved full face respirator with a combination organic vapor and high efficiency filter cartridge if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, or other poorly ventilated areas and for large spill clean-up sites.

9. Physical and chemical properties

Physical state:	Liquid	Evaporation rate:	No data available
Color:	Tan to Amber-Colored Liquid	Flammability:	No data available
Flash point (° F):	112	Explosive limits:	No data available
Relative density:	0.89	Vapor pressure:	No data available
Odor:	Mild solvent odor	Vapor density:	No data available
Odor threshold:	No data available	Solubility:	No data available
pH:	Not applicable; non aqueous solution	Partition coefficient:	No data available
Melting point/ Freezing point:	No data available	Autoignition temperature:	No data available
Initial boiling point and boiling range:	No data available	Decomposition temperature:	No data available

10. Stability and reactivity

Chemical stability:	Material is normally stable at moderately elevated temperatures and pressures.
Possibility of hazardous reactions:	Hazardous polymerization will not occur.
Conditions to avoid:	High temperatures and open flame.
Incompatible materials:	Avoid strong oxidizing agents and strong reducing agents.
Hazardous decomposition products:	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.

11. Toxicological information

Acute Toxicity: Harmful if swallowed. Harmful in contact with skin.

Component	CAS	Test	Result
1,2,4-Trimethylbenzene	95-63-6	LC50 Inhalation Rat (mg/l)	> 18 mg/l 18000 mg/kg (Exposure time: 4 h)
Benzene	71-43-2	ATE (Oral)	1800.000 mg/kg
Benzene	71-43-2	LC50 Inhalation Rat (ppm)	13050 - 14380 ppm/4h
Benzene	71-43-2	LD50 Oral Rat	930 mg/kg
Benzene, 1,2,4-trimethyl	95-63-6	ATE (Vapors)	10.800 mg/l/4h
Benzene, 1,2,4-trimethyl	95-63-6	LC50 Inhalation Rat (mg/l)	18 g/m ³ (Exposure time: 4 h)
Benzene, 1,2,4-trimethyl	95-63-6	LD50 Dermal Rabbit	> 3160 mg/kg
Benzene, 1,2,4-trimethyl	95-63-6	LD50 Oral Rat	6000 mg/kg
Cumene	98-82-8	LC50 Inhalation Rat (mg/l)	20 - 40 mg/l (Exposure time: 6 h)
Cumene	98-82-8	LD50 Dermal Rabbit	10000 mg/kg
Cumene	98-82-8	LD50 Oral Rat	2260 mg/kg
Ethylbenzene	100-41-4	LC50 Inhalation Rat (mg/l)	17.2 mg/l/4h (Exposure time: 4 h)
Ethylbenzene	100-41-4	LD50 Dermal Rabbit	15354 mg/kg
Ethylbenzene	100-41-4	LD50 Oral Rat	3500 mg/kg
Light Aromatic Naphtha	64742-95-6	LC50 Inhalation Rat (mg/l)	> 5.2 mg/l
Light Aromatic Naphtha	64742-95-6	LD50 Dermal Rat	> 2000 mg/kg
Light Aromatic Naphtha	64742-95-6	LD50 Oral Rat	> 5000 mg/kg
Naphthalene	91-20-3	LC50 Inhalation Rat (mg/l)	> 340 mg/m ³ (Exposure time: 1 h)
Naphthalene	91-20-3	LD50 Dermal Rabbit	1120 mg/kg
Naphthalene	91-20-3	LD50 Oral Rat	533 - 710 mg/kg
Toluene	108-88-3	LC50 Inhalation Rat (mg/l)	12.5 mg/l/4h

Toluene	108-88-3	LD50 Dermal Rabbit	8390 mg/kg
Toluene	108-88-3	LD50 Oral Rat	636 mg/kg
Xylenes (o-, m-, p- isomers)	1330-20-7	ATE (Dermal)	1100.000 mg/kg body weight
Xylenes (o-, m-, p- isomers)	1330-20-7	ATE (Vapors)	11.000 mg/l/4h
Xylenes (o-, m-, p- isomers)	1330-20-7	LC50 Inhalation Rat (mg/l)	47635 mg/l/4h (Exposure time: 4 h)
Xylenes (o-, m-, p- isomers)	1330-20-7	LC50 Inhalation Rat (ppm)	6247 ppm/4h (species: Sprague-Dawley)
Xylenes (o-, m-, p- isomers)	1330-20-7	LD50 Oral Rat	4300 mg/kg

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: May cause genetic defects. May cause genetic defects

Carcinogenicity: May cause cancer.

Component	CAS	Group	Notes
Benzene	71-43-2	IARC group	1
Benzene	71-43-2	National Toxicity Program (NTP) Status	Evidence of Carcinogenicity, Known Human Carcinogens.
Cumene	98-82-8	IARC group	2B
Cumene	98-82-8	National Toxicity Program (NTP) Status	Evidence of Carcinogenicity.
Ethylbenzene	100-41-4	IARC group	2B
Ethylbenzene	100-41-4	National Toxicity Program (NTP) Status	Evidence of Carcinogenicity.
Naphthalene	91-20-3	IARC group	2B
Naphthalene	91-20-3	National Toxicity Program (NTP) Status	Evidence of Carcinogenicity, Reasonably anticipated to be Human Carcinogen.
Toluene	108-88-3	IARC group	3
Xylenes (o-, m-, p- isomers)	1330-20-7	IARC group	3

Reproductive Toxicity: May damage fertility or the unborn child.

Specific Target Organ Toxicity (Single Exposure): May cause damage to organs.

Specific Target Organ Toxicity (Repeated Exposure): Not classified

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

Potential Adverse Human Health Effects and Symptoms: Harmful in contact with skin. Harmful if swallowed.

Symptoms/Injuries After Inhalation: Harmful if inhaled.

Symptoms/Injuries After Skin Contact: Harmful in contact with skin. Causes skin irritation.

Symptoms/Injuries After Eye Contact: May cause eye irritation.

Symptoms/Injuries After Ingestion: Harmful if swallowed. May be fatal if swallowed and enters airways.

Chronic Symptoms: May cause genetic defects. May cause cancer. May damage fertility. May damage the unborn child.

12. Ecological information

12.1. Toxicity

Ecology – General: Harmful to aquatic life. Toxic to aquatic life with long lasting effects.

Component	CAS	Group	Notes
Benzene	71-43-2	IARC group	1
Benzene	71-43-2	National Toxicity Program (NTP) Status	Evidence of Carcinogenicity, Known Human Carcinogens.
Cumene	98-82-8	IARC group	2B
Cumene	98-82-8	National Toxicity Program (NTP) Status	Evidence of Carcinogenicity.
Ethylbenzene	100-41-4	IARC group	2B
Ethylbenzene	100-41-4	National Toxicity Program (NTP) Status	Evidence of Carcinogenicity.
Naphthalene	91-20-3	IARC group	2B
Naphthalene	91-20-3	National Toxicity Program (NTP) Status	Evidence of Carcinogenicity, Reasonably anticipated to be Human Carcinogen.
Toluene	108-88-3	IARC group	3
Xylenes (o-, m-, p- isomers)	1330-20-7	IARC group	3

12.2. **Persistence and Degradability:** Not established.

12.3. **Bioaccumulative Potential**

Component	CAS	Test	Result
Benzene	71-43-2	BCF fish 1	3.5 - 4.4
Benzene	71-43-2	Log Pow	1.83
Benzene, 1,2,4-trimethyl	95-63-6	Log Pow	3.63
Cumene	98-82-8	BCF fish 1	35.5
Cumene	98-82-8	Log Pow	3.55 (at 23 °C)
Ethylbenzene	100-41-4	BCF fish 1	15
Ethylbenzene	100-41-4	Log Pow	3.118
Naphthalene	91-20-3	BCF fish 1	30 - 430
Naphthalene	91-20-3	Log Pow	3.3 (at 20 °C)
Toluene	108-88-3	Log Pow	2.65
Xylenes (o-, m-, p- isomers)	1330-20-7	BCF fish 1	0.6 (0.6 - 15)
Xylenes (o-, m-, p- isomers)	1330-20-7	Log Pow	2.77 - 3.15

12.4. **Mobility in Soil** No additional information available

12.5. **Other Adverse Effects**

Other Information: Avoid release to the environment.

13. Disposal considerations

Waste Disposal:	<p>Dispose of waste material in accordance with all local, regional, national, provincial, territorial, and international regulations.</p> <p>Handle empty containers with care because residual vapors are flammable.</p> <p>Avoid release to the environment</p>
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14. Transport information

In Accordance with DOT:

This material is not regulated for US DOT transportation in quantities less than 119 gallons.

Identification number:	NA 1993
Proper shipping name:	Combustible Liquid, N.O.S. (Contains Petroleum Naphtha, Trimethylbenzene)
Transport hazard class:	3
Packing group:	III
Marine Pollutant:	Yes (Contains Benzene, ethylenated, residues, distn. Lights)
ERG Number	128

15. Regulatory information

U.S. Federal Regulations

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):

Component	CAS #	RQ (lbs)	Max Vol %	T	B
Benzene	71-43-2	10	0.004		
Naphthalene	91-20-3	100	0.25		
Xylene	1330-20-7	100	3.66		*
Ethylbenzene	100-41-4	1000	0.26		
Toluene	108-88-3	1000	0.05		
Cumene	98-82-8	5000	2.56		
Vinyl Acetate	108-05-4	5000	0.07		

Toxic Substances Control Act (TSCA): All components of this product are included on the TSCA inventory.

Superfund Amendments and Reauthorization Act (SARA) Title III Information:

SARA Section 311/312 (40 CFR 370) Hazard Categories:

Immediate Hazard	Yes
Delayed Hazard	Yes
Fire Hazard	Yes
Pressure Hazard	No
Reactivity Hazard	No

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372)

Component	CAS #
1,2,4-Trimethylbenzene	95-63-6
Benzene	71-43-2
Cumene	98-82-8
Naphthalene	91-20-3
Ethylbenzene	100-41-4
Toluene	108-88-3
Vinyl Acetate	108-05-4
Xylene	1330-20-7

16. Other information

HMIS Code		NFPA Code	
Health	2*	Health	2
Flammability	2	Flammability	2
Reactivity	0	Reactivity	0

SDS Preparation date: AUGUST 20, 2015

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