



Marine Gas Conditioner

Product Description Sheet

Technol Marine Gas Conditioner is a combustion modifier, corrosion inhibitor, fuel stabilizer/detergent/dispersant specifically designed for Ethanol and Gasoline Ethanol blends. It has been formulated to provide corrosion protection, injector cleanliness and combat water fall-out.

Cost-effective corrosion protection and control

Stabilizes Ethanol and Ethanol blend gasoline

Compatible with most gasoline additives

Excellent performance in the NACE TM-01-72 and ASTM D655A rust tests

Cleans and controls injector chamber and intake valve deposits

Application

Technol Marine Gas Conditioner is specifically designed for high-performance marine engines using Ethanol and Ethanol blend gasoline. Corrosion performance is fuel specific and can vary with test conditions. This product is recommended to be used continuously at 1oz. treats 15 gallons of fuel, 12ozs. treats 180 gallons, 1 gallon treats 2,000 gallons.

Typical Properties

Appearance	Yellow, Clear Liquid
Density	7.17 Lbs./Gal
Specific Gravity	0.86 @ 60°F (16°C) Water = 1
Viscosity	not available
Flash Point	>54 C (>130 F)
Freezing Point	not available
Shelf Life	Up to 18 months



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Features & Benefits

Technol Marine Gas Conditioner is a combustion modifier, corrosion inhibitor, fuel stabilizer, detergent, and dispersant specifically designed for Ethanol and Gasoline Ethanol blends. It has been formulated to provide corrosion protection, injector cleanliness and combat water fall-out. Competitive advantages and comparisons are listed:

Parameters	Technol MGC	Competitive Product
Hazardous Classification	No	No
Reduces maintenance costs	Yes	Yes
Cost-effective corrosion protection	Yes	To a small degree
Cleans/prevents injector chamber and intake valve deposits	Yes	No
Absorbs tramp water	Yes	No
Combats water fall-out	Yes	No
Shelf Life	18 Months	Not Specified
Improves fuel economy	Yes	Yes
Additive Compatible	Yes	Not Specified
Improves engine power & performance	Yes	Yes

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Technical Data Sheet

Technol Marine Gas Conditioner is a combustion modifier, corrosion inhibitor, fuel stabilizer/detergent/dispersant specifically designed for **Ethanol Gasoline and blends**. Pure Ethanol Gasoline and Ethanol Gasoline blends have the potential of causing harmful effects on engine components, such as the drying and ultimate destruction of plastic and rubber gaskets and seals, on fuel destabilization, and build up in injection chambers and on engine valves.

Technol Marine Gas Conditioner has been formulated to combat this issues by providing corrosion protection, injector and valve cleanliness, and to combat water fall-out. It is specifically designed for high-performance vehicle and marine engines consuming Ethanol and Ethanol Gasoline blends.

COMPOSITION

Technol Marine Gas Conditioner contains no solids which can retard the enhancing performance for which it was designed. It contains no harmful environmental elements, such as salts, alcohols, acids, heavy metals or Barium.

PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Yellow Liquid
Odor:	Mild Ether
Flash Point:	>130°F (54°C)
Freeze Point:.....	N/A
Density:	7.2 lbs./gallon
Shelf Life:	18 months

BENEFITS

- Cost-effective engine corrosion protection and control
- Stabilizes both pure Ethanol and Ethanol-blended gasoline
- Fully compatible with most gasoline additives
- Cleans injector chambers and control valve deposits
- Registered with the EPA for both on- and off-road fuel consumption.

APPLICATION

Technol Marine Gas Conditioner is recommended to be used **continuously** at 1oz. per 15 gallons of Ethanol or Ethanol-blended gasoline. Extended applications are:

- 8ozs. Treats 120 gallons of fuel
- 12ozs. Treats 180 gallons of fuel
- 32ozs. Treats 480 gallons of fuel
- 1 Gallon treats 2,000 gallons of fuel

Refer to the product's Application Chart for additional application volumes.

AVAILABILITY

Technol Marine Gas Conditioner is readily available for bulk applications in:

- 5-Gallon Steel Closed-head Pails
- 54-Gallon Steel Closed-head Drums
- 275-Gallon Skid-mounted HDPE Totes
- 330-Gallon Skid-mounted HDPE Totes

** All containers are non-returnable.*

For pricing and information, please contact your Technol sales representative.



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According to Federal Register / Vol. 77, No. 58 / Rules & Regulations
Revision: 04/20/2018 Issued: 05/01/2008 Supersedes: 04/01/2012

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT FORM: Liquid Substance
TRADE NAME: **TECHNOL MARINE GAS CONDITIONER**
CHEMICAL NAME: Proprietary mixture of petroleum distillates
COMPANY: Technol Fuel Conditioners, Inc.
145 Wyckoff Road
Eatontown, NJ 07724
Phone: 1.800.645.4033
EPA REGISTRATION: None - Not designed for On-Road Fuel Consumption
EMERGENCY PHONE: Chemtrec: 1.800.424.9300 - within USA and Canada
Chemtrec: 1.703.527.3887 - outside USA and Canada

SECTION 2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Physical, Flammable Liquids, 3
Health, Specific target organ toxicity– Single exposure, 3
Health, Acute toxicity, 4 Oral
Health, Acute toxicity, 4 Dermal
Health, Acute toxicity, 4 Inhalation
Health, Skin corrosion/irritation, 2
Health, Carcinogenicity, 2
Health, Aspiration hazard, 1
Health, Serious Eye Damage/Eye Irritation 2A

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS HAZARD PICTOGRAMS:



GHS Hazardous Statements:

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



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GHS Precautionary Statements:

- P210-Keep away from heat/sparks/open flames/hot surfaces. NO SMOKING
- P243-Take precautionary measures against static discharge.
- P233-Keep container tightly closed
- P261-Avoid breathing dust/fume/gas/mist/vapors/spray.
- P301 + 330 + 331-IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
- P302 + 352-IF ON SKIN: Rinse with soap and water.
- P304 + 340- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+351+338-IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P308+313-IF exposed or concerned: Get medical advice/attention.

SECTION 3. COMPOSITION AND INGREDIENTS INFORMATION

Ingredients:

CAS Number	%	Chemical Name
64742-47-8	40-50%	Distillates, Petroleum, hydrotreated light
111-76-2	<25%	2-Butoxyethanol
64742-95-6	<25%	Solvent naphtha, petroleum, light arom.
*****	<25%	Monoalkylaryl alkoxyate aminated (proprietary)
95-63-6	<10%	1,2,4-trimethylbenzene
108-67-8	<5%	1,3,5-trimethylbenzene
103-65-1	<5%	n-Propyl benzene
1330-20-7	<2%	Xylene
98-82-8	<2%	Cumene
526-73-8	<2%	1,2,3-trimethylbenzene

SECTION 4. FIRST AID MEASURES

- INHALATION:** Overexposure can cause dizziness, lack of coordination, and breathing complications, unlikely to occur under normal usage conditions. Handlers should always wear a self-contained breathing apparatus in the positive mode with a full face-piece due to the likelihood of fumes, smoke, and hazardous component decomposition. Remove to fresh air and deploy artificial respiration if not breathing. Get medical attention.
- SKIN CONTACT:** Can cause irritation of exposed skin due to defatting of skin tissue. Handlers should always wear rubber gloves. Wash exposed skin vigorously with general soap and water. Get medical attention if skin irritation persists.
- EYE CONTACT:** Can cause irritation of exposed eye tissue. Handlers should always wear splash-proof goggles. Rinse eyes with cool flowing water for at least 15 minutes and get immediate medical attention.
- INGESTION:** Can cause irritation of the gastrointestinal tract and possible fatal kidney liver damage. DO NOT INDUCE VOMITING. Deploy artificial respiration if not breathing. Get immediate medical attention.

SECTION 5. FIREFIGHTING MEASURES

- FLASH POINT:** >54 C (>130 F)
- Use dry powder, foam, or carbon dioxide fire extinguishers.
- Water may be ineffective unless used by experienced firefighters



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SECTION 6. ACCIDENTAL RELEASE PRECAUTIONS

Eliminate sources of ignition- Heat, sparks, flame and electricity
Contain spilled material
Collect in suitable and properly labeled containers Pick up excess with inert absorbent material
Keep away from drains and ground water

SECTION 7. PRODUCT HANDLING & STORAGE

HANDLING: Avoid contact with eyes, skin, or clothing.
Keep away from sources of ignition.
Do Not pressurize, cut, weld, braze, solder, drill, or grind containers.
Handle with care and avoid spillage on the floor (slippage).
Ground and bond containers when transferring material

STORAGE: Keep away from sources of ignition.
Store in a tightly closed container.

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls: All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94)

Personal Protective Equipment: Use of safety glasses and gloves is recommended.

Exposure Guidelines: Light Aromatic Solvent Naphtha (Petroleum)
OSHA TWA: 500 ppm
1,2,4-Trimethylbenzene
ACGIH TWA: 25ppm
Xylene
OSHA TWA: 100 ppm, 435 mg/m³
Cumene
OSHA TWA: 50 ppm, 245 mg/m³
1,3,5-trimethylbenzene
ACGIH TWA: 25ppm
1,2,3-trimethylbenzene
ACGIH TWA: 25ppm

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Yellow Liquid	Odor:	Hydrocarbon-like
Boiling Point:	Not available	Viscosity	Not available
Vapor Pressure:	Not available	Vapor density (Air = 1):	Not available
Solubility in Water:	Negligible	Solubility in Organic Solvents:	Soluble
pH:	Not Applicable	Flash point, COC (ASTM D-93):	>54 C (>130 F)
Pounds per Gallon	7.17 lbs/gal	Evaporation Rate (Butyl Acetate =1):	Not available
Freeze Point:	Not available	Volatiles By Volume:	Not available
Specific gravity	0.86 at 60 F (Water = 1)	Decomp Temp:	Not available
Partition coefficient:	Not available	Flammability:	Not available
		UFL/LFL	Not available



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SECTION 10. STABILITY AND REACTIVITY

Chemical Stability:	Product is stable under normal conditions
Conditions to avoid:	High temperatures above 50 C (122 F), sparks, and open flame.
Materials to avoid:	Avoid strong oxidizing agents. May burn or react violently to fluorine/oxygen mixtures.
Hazardous Decomposition:	Combustion will produce carbon dioxide and , possibly toxic chemicals such as carbon monoxide.
Hazardous Polymerization:	Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Repeated skin contact with this product may cause dermatitis or an oil acne.
No Component is listed as a mutagen or teratogen

EYE EFFECTS:

Solvent Petroleum Naphtha, slightly irritating to rabbits.

SKIN EFFECTS:

Solvent Petroleum Naphtha no deaths reported at 4 ml/kg in rats. Slightly irritating in rabbits at 4 hours
142 Solvent, LD50>5,000 mg/kg in rabbits
2-Butoxyethanol LD50 470 mg/kg in rabbits
Monoalkylaryl alkoxylate aminated LD50 >3000 in rats
1,2,4-trimethylbenzene LD50 5000 mg/kg in rabbits
Xylene LD50 >14,100 mg/kg rabbits
Cumene LD50 10,578 mg/kg in rabbits

ACUTE ORAL EFFECTS:

Solvent Petroleum Naphtha LD50 10ml/kg in rats.
142 Solvent, LD50>5,000 mg/kg in rats
2-Butoxyethanol LD50 470 mg/kg in rats
1,2,4-trimethylbenzene LD50 5000 mg/kg in rats
1,3,5-trimethylbenzene LD50 >5000 mg/kg in rats
n-Propyl benzene LD50 6,040 mg/kg in rats
Xylene LD50 >3523 mg/kg rats
Cumene LD50 12,750 mg/kg in rats

ACUTE INHALATION EFFECTS:

Solvent Petroleum Naphtha no deaths at 710 ppm in rats at 4 hours
142 Solvent, LD50>4.3 mg/l in rats at 4 hours
2-Butoxyethanol LD50 2175 mg/l in rats at 4 hours
1,2,4-trimethylbenzene LD50 vapor 18,000 mg/m³ in rats at 4 hours
1,3,5-trimethylbenzene LD50 vapor 24,000 mg/m³ in rats at 4 hours
Xylene LD50 vapor >5000 ppm in rats at 4 hours
Cumene LD50 vapor 8,000 ppm in rats at 4 hours

CARCINOGENICITY:

Xylene IARC 3
Cumene IARC 2B

SECTION 12. ECOLOGICAL INFORMATION

No specific aquatic data is available.
Avoid exposing to the environment



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SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of waste material in accordance with all local, state/provincial, and national requirements
Do not flush to surface water or drains

SECTION 14. TRANSPORTATION INFORMATION

UN1993, Flammable liquid, n.o.s., 3, PGIII, (Contains Petroleum Naphtha, 2-Butoxyethanol), (Marine pollutant.)

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

IMDG & IATA: Flammable liquid, n.o.s., (Contains Petroleum Naphtha, 2-Butoxyethanol), 3, III. Marine pollutant.

SECTION 15. REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Distillates, Petroleum, hydrotreated light (64742-47-8)[40-50%] TSCA

2-Butoxyethanol (111-76-2) [<25%] HAP,MASS.OSHAWAC, PA, TSCA, TXAIR

Solvent naphtha, petroleum, light arom. (64742-95-6) [<25%] TSCA

Proprietary amine compound (0) [<25%] GADSL, REACH

1,2,4-trimethylbenzene (95-63-6) [<10%] MASS, NJHS, PA, SARA313, TSCA, TXAIR

1,3,5-trimethylbenzene (108-67-8) [<5%] MASS, TSCA

n-Propyl benzene (103-65-1) [5%] MASS, PA, TSCA

RQ100LBS), Xylene (1330-20-7) [<2%] CERCLA,CSWHS, EPCRAWPC, HAP, MASS, NJHS, OSHAWAC, PA, SARA313, TOXICRCRA, TSCA, TXAIR, TXHWL

RQ(5000LBS) Cumene (98-82-8) [<2%] CERCLA, HAP, MASS, NJHS, OSHAWAC, PA, SARA313,TOXICRCRA, TSCA, TXAIR, TXHWL

1,2,3-trimethylbenzene (526-73-8) <2%] TSCA, TXAIR

Regulatory CODE Descriptions

CERCLA = Superfund clean up substance

HAP = Hazardous Air Pollutants

MASS = MA Massachusetts Hazardous Substance List

NJHS = NJ Right - to - know List of Hazardous Substances

OSHAWAC = OSHA Workplace Air Contaminants

PA = Pennsylvania Right - to - Know List of Hazardous Substances

SARA313 = SARA 313 Title III Toxic chemicals

TSCA = Toxic Substance Control Act

TXAIR = Texas Air contaminants with Health Effects Screening Level

RQ = Reportable Quantity

CSWHS = Clean water Act Hazardous Substances

EPCRAWPC = EPCRA Water Priority Chemicals

TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)

TXHWL = TX Hazardous Waste List

GADSL- Global Automotive Declarable Substance List (GADSL)

REACH - REACH list of Substances of very high concern (RSL)



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SECTION 16.

OTHER INFORMATION

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Marine Gas Conditioner Application Chart

This chart indicates the availability of container sizes and specifies the ounces or gallons of product needed for the amount of fuel to be conditioned. Container quantities have been maximized in accordance with skid dimensions. Please see the *Packaging & Shipping* notation at the bottom.

Container oz:	8oz. = 8	Quart = 32	Gal. = 128	Pail = 640	Drum = 6,912	Tote = 35,200
Available / Skid Max:	NO →	NO →	NO →	YES 20	YES 216	YES 275
Application:	→	→	→	Initial Maintain	Initial Maintain	Initial Maintain
Ratio:	1: 1,000 2,000	1,000 2,000	1,000 2,000	1,000 2,000	1,000 2,000	1,000 2,000
				Oz/Gal to Apply	Oz/Gal to Apply	Oz/Gal to Apply
G 50	→	→	→	7oz 4oz	←	←
A 100	→	→	→	13oz 7oz	←	←
L 200	→	→	→	26oz 13oz	←	←
L 500	→	→	→	64oz 32oz	←	←
O 1,000	→	→	→	1gal 64oz	←	←
N 2,000	→	→	→	2gal 1gal	←	←
S 3,000	→	→	→	3gal 2gal	←	←
S 4,000	→	→	→	4gal 2gal	←	←
O 5,000	→	→	→	5gal 3gal	5gal ←	←
F 7,500	→	→	→	8gal 4gal	8gal ←	←
F 8,000	→	→	→	8gal 4gal	8gal ←	←
F 9,000	→	→	→	9gal 5gal	9gal 5gal	←
U 10,000	→	→	→	10gal 5gal	10gal 5gal	←
E 12,000	→	→	→	12gal 6gal	12gal 6gal	←
E 14,000	→	→	→	14gal 7gal	14gal 7gal	←
L 15,000	→	→	→	15gal 8gal	15gal 8gal	←
T 20,000	→	→	→	20gal 10gal	20gal 10gal	←
O 25,000	→	→	→	25gal 13gal	25gal 13gal	25gal ←
B 45,000	→	→	→	45gal 23gal	45gal 23gal	45gal ←
E 50,000	→	→	→	50gal 25gal	50gal 25gal	50gal 25gal
E 75,000	→	→	→	75gal 38gal	75gal 38gal	75gal 38gal
E 80,000	→	→	→	80gal 40gal	80gal 40gal	80gal 40gal
C 89,950	→	→	→	90gal 45gal	90gal 45gal	90gal 45gal
O 96,000	→	→	→	96gal 48gal	96gal 48gal	96gal 48gal
N 100,000	→	→	→	100gal 50gal	100gal 50gal	100gal 50gal
N 110,000	→	→	→	110gal 55gal	110gal 55gal	110gal 55gal
D 115,000	→	→	→	115gal 58gal	115gal 58gal	115gal 58gal
I 119,900	→	→	→	120gal 60gal	120gal 60gal	120gal 60gal
T 135,000	→	→	→	135gal 68gal	135gal 68gal	135gal 68gal
I 159,500	→	→	→	160gal 80gal	160gal 80gal	160gal 80gal
O 200,000	→	→	→	200gal 100gal	200gal 100gal	200gal 100gal
N 240,000	→	→	→	240gal 120gal	240gal 120gal	240gal 120gal
E 320,000	→	→	→	320gal 160gal	320gal 160gal	320gal 160gal
D 350,000	→	→	→	350gal 175gal	350gal 175gal	350gal 175gal
400,000	→	→	→	400gal 200gal	400gal 200gal	400gal 200gal

Packaging & Shipping : 12 8oz bottles/case (where available) 60 cases per skid; 12 quart bottles/case (where available) 40 cases per skid, 4 gallons/case (where available) 40 cases per skid, 20 pails/skid, 4 drums/skid, one 275-gallon HDPE tote bin per skid. All small packaged items (where available) are induction-sealed. Pails and drums are steel with closed heads. All containers and skids are non-returnable.