



# STR-2+ AO for Distillates & Biodiesel

## Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Rules & Regulations  
Revision: 1/12/2018 Issued: 08/01/1992 Supersedes: 03/01/2006

### SECTION 1.

### PRODUCT AND COMPANY IDENTIFICATION

PRODUCT FORM: Liquid Substance  
 TRADE NAME: **Technol STR-2+ Anti Oxidant Distillate & Biodiesel Conditioner**  
 CHEMICAL NAME: Proprietary mixture of petroleum distillates  
 COMPANY: Technol Fuel Conditioners, Inc.  
 145 Wyckoff Road  
 Eatontown, NJ 07724  
 Phone: 1.800.645.4033  
 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, 3 Oral  
 Health, Acute toxicity, 3 Dermal  
 Health, Acute toxicity, 3 Inhalation  
 Health, Skin corrosion/irritation, 1 C  
 Health, Carcinogenicity, 2  
 Health, Aspiration hazard, 1  
 Health, Serious Eye Damage/Eye Irritation, 1  
 Health, Skin sensitization, 1  
 Health, Specific target organ toxicity - Repeated exposure, 2  
 Environmental, Hazards to the aquatic environment—Chronic, 1

#### 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  
 H314-Causes severe skin burns and eye damage  
 H318-Causes serious eye damage  
 H351-Suspected of causing cancer  
 H304-May be fatal if swallowed and enters airways  
 H301-Toxic if swallowed  
 H311-Toxic in contact with skin  
 H331-Toxic if inhaled  
 H410-Very toxic to aquatic life with long lasting effects



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H317-May cause and allergic skin reaction

H373- May cause damage to organs through prolonged or repeated exposure

### GHS Precautionary Statements:

P210-Keep away from heat/sparks/open flames/hot surfaces. NO SMOKING

P243-Take precautionary measures against static discharge.

P261-Avoid breathing dust/fume/gas/mist/vapors/spray.

P273-Avoid release to the environment.

P301 + 310-IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P303 +361+353-IF ON SKIN (or hair): Removal/ Take off immediately all contaminated clothing. Rinse skin with water/shower.

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 #	%	Chemical Name
64742-95-6	40-50%	Solvent naphtha, petroleum, light arom.
95-63-6	<25%	1,2,4-Trimethylbenzene
111-76-2	<5%	2-Butoxyethanol
1330-20-7	<3%	Xylene
64742-94-5	<3%	Solvent naphtha, petroleum, heavy arom.
110-25-8	<3%	Glycine, N-methyl-N-[(9Z)-1-oxo-9-octadecenyl]-
98-82-8	<2%	Cumene
94-91-7	<2%	Phenol, 2,2'-[(1-methyl-1,2-ethanediyl)bis(nitrilomethylidene)]bis-
128-39-2	<2%	2,6-Ditert-butylphenol
101-96-2	<2%	1,4-Benzene3diamine, N,N'-bis(1-methylpropyl)-

## 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. **DO NOT INDUCE VOMITING.** Deploy artificial respiration if not breathing. Get immediate medical attention.

Note to Physician: Activated charcoal may be administered



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### SECTION 5. FIREFIGHTING MEASURES

FLASH POINT: 115°F Open Cup (46°C), Method = PMCC  
LOWER FLAMMABLE LIMIT: % by volume not established  
UPPER FLAMMABLE LIMIT: % by volume not established

Special Hazards and Procedures: This product poses no unusual fire fighting problems. It will burn if involved in a fire. Oxides of sulfur (SO<sub>2</sub>) will be given off while burning. Combustion may produce oxides of carbon and oxides of calcium. Water may be used to cool fire-exposed containers and structures but is not a suitable extinguishing media.

Protective Equipment: As in any fire, firefighters must be equipped to prevent breathing of vapors or products of combustion. Wear an approved self-contained breathing apparatus and protective clothing.

Extinguishing Media: Dry chemical, CO<sub>2</sub> and foam are suitable. Water jets or any water-based fluid are not suitable. Closed containers may be cooled with water. Treat large fires as an oil fire. Oil will float on water and can cause fire to spread. Heat from fire can generate flammable vapor.

### SECTION 6. ACCIDENTAL RELEASE PRECAUTIONS

PERSONAL: Wearing suitable protective equipment, eliminate sources of ignition and open nearby windows to ventilate the problem area.

ENVIRONMENTAL: Product has very low solubility in water. Prevent from entering sewer system, surface water or soil.

FOR SPILL CLEAN-UP: Shut off leak and dike up large spills. Absorb with an inert material such as sand, soil or vermiculite. Sweep up absorbent and dispose in accordance with regulatory requirements.

### 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

VENTILATION: None normally required. Use additional ventilation if needed to control vapor concentrations particularly if a mist is generated or fumes from hot material are present.

RESPIRATORY: None required if area adequately ventilated. Use appropriate respiratory protection if used in confined areas. If used in an application where a mist may be generated, observe a TWA/PEL of 5 mg/m<sup>3</sup> (OSHA, ACGIH) for a mineral oil mist. Use a respirator with dual organic vapor/mist and particulates cartridge if vapor concentration exceeds permissible exposure limit.

SKIN PROTECTION: Use neoprene-type gloves and apron.

EYE PROTECTION: Wear chemical safety goggles or a full-plate face shield. Contact lenses should not be worn.



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### SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Dark Red Liquid	Odor:	Hydrocarbon like
Boiling Point:	< 340°F [ $< 171.1^{\circ}\text{C}$ ]	Density at 25°C (gm/cm <sup>3</sup> ):	0.91 Typical
Vapor Pressure:	Not available	Vapor density (Air = 1):	Not available
Solubility in Water:	Negligible	Solubility in Organic Solvents:	Nil in water
pH:	Not Applicable	Flash point, COC (ASTM D-93):	115°F (46°C)
Pounds per Gallon	7.6	Evaporation Rate (Butyl Acetate =1):	Not available
Freeze Point:	10°F (-12.2°C)	Volatiles By Volume:	Not Available

### SECTION 10. STABILITY AND REACTIVITY

This product is stable and not subject to hazardous polymerization.

Hazardous Decomposition Products: Oxides of carbon (carbon monoxide and carbon dioxide), and oxides of hydrogen (contaminated and hazardous water) are all formed from burning.

Incompatible materials: Strong oxidizers such as hydrogen peroxide, oxidizing chlorine, and bromine compounds (e.g. chlorine bleach) and chromic acid should be avoided.

Conditions to avoid: Extreme heat and sources of fire or ignition.

### SECTION 11. TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE:	Eye contact, skin contact, inhalation and ingestion.
ACUTE TOXICITY:	The handling procedures and safety precautions in this SDS should be followed to minimize employee exposure.
CHRONIC EFFECTS:	Can cause eye, skin and gastrointestinal irritation. Irritation of tissue, defatting of skin, gastrointestinal irritation, Kidney and Liver damage.
SYMPTOMS:	Irritation of exposed tissue and organs, blurriness of vision, dizziness, fainting, and lack of physical coordination.
LD50:	Not Established.
NTP/IARC/OSHA:	This product and none of its components are listed as a carcinogens, mutagens, or teratogens.

### SECTION 12. ECOLOGICAL INFORMATION

No specific aquatic data is available. This product should be kept away from all bodies of water, and prevented from entering sewer streams. It may be necessary to extract soil where large spills have occurred. No specific Bioaccumulation data is available. No specific Terrain Migration data is available.

### SECTION 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:	This product should be incinerated as a waste oil, at a certified and registered waste disposal site, in compliance with all federal, state and local regulations and requirements.
RCRA STATUS OF UNUSED PRODUCT:	Dispose of this product in permitted hazardous wastes sites. Keep this product away lakes, streams, rivers, ponds, sewer systems, and any other body of water.



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## SECTION 14. TRANSPORTATION INFORMATION

### US DOT Classification:



**NA 1993**, Combustible Liquid, NOS (placard required on ground carriers): not regulated if shipped or transported in containers less than 450 liters (119 Gallons US).

Proper Shipping Name: Proprietary mixture of petroleum derivatives  
Shipping Class: 65 (regardless of package or container size)  
Packing Group: III (regardless of package or container size)  
NMFC Rating: 155250-02



**UN 1993**, Flammable Liquid, NOS: If shipped in containers of 450 liters or more (120 Gallons US or more), by air or by sea.

Proper Shipping Name: Petroleum Distillates, NOS  
Shipping Class: 65 (regardless of package or container size)  
Packing Group: III (regardless of package or container size)

### IMDG Classification:

This product is not known to be a marine pollutant according to the International Marine Dangerous Goods Codes, however it can cause harm to aquatic life.

### ICAO Classification:

Proper Shipping Name: Flammable liquid, NOS, Petroleum distillates  
Class: 3  
UN/NA ID #: NA 1993  
Packing Group: III

### IBC Classification:

Guidance on transporting this product in bulk by ocean freight can be obtained from Annex II of Marpol 73/78 and the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.

### All Transportation Methods:

Keep packages and containers upright and tightly sealed at all time during transportation. Do not expose packages and containers to direct sunlight, extreme heat, or any source of ignition. All product should be transported in their original packaging and containers. Rubber, plastic or other lined containers should not be used.

## SECTION 15. REGULATORY INFORMATION

Component( case#)[%] - CODES

Solvent naphtha, petroleum, light arom. (64742-95-6)[40-50%] TSCA  
1,2,4- Trimethylbenzene (95-63-6)[<25%] MASS, NJHS,PA,SARA313, TXCA,TXAIR  
2-Butoxyethanol(111-76-2)[<5%] HAP, MASS, OSHAWAC, PA, TSCA, TXAIR  
RQ(100LBS) Xylene (1330-20-7) [<3%] CERCLA, CSWHS, EPCRAWPC, HAP, MASS, NJHS, OSHAWAC, PA SARA313, TOXICRCRAM  
TSCAM TXAIR, TSHWL  
Solvent naphtha, petroleum, heavy arom. (64742-94-5)[<3%] TSCA  
Glycine, N-methyl-N-[(9Z) -1-oxo-9-octadecenyl]- (110-25-8) [<3%] TSCA  
RQ(5000LBS), Cumene (98-82-8) [<2%] CERCLA, HAP, MASS. NJHS. OSHAWAC, PA, SARA313, TOXICRCLA, TSCA, TXAIR,TXHWL  
Phenol, 2-2'-[(1-methyl-1,2-ethanedil)bis(nitrilomethylidyne)]bis- (94-91-7) [<2%] TSCA  
2,6-Di-tert-butylphenol (128-39-2)[<2%] TSCA  
1,4-Benzenediamine, N,N'-bis(1-methylpropyl)-(101-96-2)[<2%]TSCA





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## 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  
OSHA WAC = 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

## SECTION 16. OTHER INFORMATION

This product has not been tested in long term, chronic exposure, therefore, the handling procedures and safety precautions in the SDS should be followed to minimize employee exposure.

Label Information for the United States: CAUTION: May cause skin and eye irritation. Do not swallow. Avoid eye and skin contact. Wash thoroughly after handling. Avoid contact with clothing. Wash clothing before reuse. Keep out of reach of children. Keep containers tightly closed when not in use. Avoid breathing mists or sprays of this product or its solutions.

### EMPLOYER RESPONSIBILITY

Employers must ensure that these Safety Data Sheets are readily accessible and available to all their employees responsible for the storage, handling, and manipulation of this product. This can be done in many ways, such as organizing all chemicals SDS in freely available binders kept in areas where the chemicals are stored, or on computers the handling employees have access to without the inconvenience of leaving the work or storage area. We strongly recommend the binder method which keeps them available in the event of a power outage or other emergency inhibiting computer use. Employers may want to consider designating two persons (primary and backup) responsible for obtaining and maintaining SDS records. If the employer does not have a particular SDS for a chemical commodity, the employer or responsible designate should contact the chemical manufacturer to obtain one prior to product use.

### REFERENCES

OSHA, 29 CFR 1910.1200(g) and Appendix D.

United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS), 3rd Revised Edition, United Nations, 2009. These references and other information related to the revised Hazard Communication Standard can be found on OSHA's Hazard Communication Safety and Health Topics web site at: <http://www.osha.gov/dsg/hazcom/index.html>.

### DISCLAIMER

This brief provides a general overview of the Safety Data Sheet requirements as mandated by the Hazard Communication Standard 29 CFR 1910.1200(g) and Appendix D of 29 CFR 1910.1200. It does not alter or determine compliance responsibilities in the standard or the Occupational Safety and Health Act of 1970. Since interpretations and enforcement policy may change over time, the reader should consult current OSHA interpretations, decisions by the Occupational Safety and Health Review Commission, and the courts for additional guidance on OSHA compliance requirement. Please note that states with OSHA-approved state plans may have additional requirements for chemical safety data sheets, outside of those outlined above. For more information on those standards, please visit: <http://www.osha.gov/dcsp/osp/statestandards.html>.

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