SDS Number – Z0198

Sid Harvey Item number – F2-17, F2-17M, F2-18, F2-18M, F2-19, F2-19M, F2-23, F2-23M, F2-27, F2-27M

STR-2+ for Distillates & Biofuel

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Rules & Regulations

Revision: 07/24/2015 Issued: 08/01/1992 Supersedes: 03/01/2006

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT FORM: Liquid Substance
TRADE NAME: **Technol STR-2+ 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

GHS SIGNAL WORD: **WARNING!**

GHS HAZARD PICTOGRAMS:

GHS CLASSIFICATIONS:

PHYSICAL:	H227:	Combustible liquid
HEALTH:	H302:	Harmful if swallowed
	H312:	Harmful in contact with skin
	H320:	Can cause eye irritation
	H336:	May cause drowsiness or dizziness
	H373:	May cause damage to organs through prolonged or repeated exposure
ENVIRONMENTAL:	H402:	Harmful to aquatic life

GHS PRECAUTIONARY STATEMENTS:

P210:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233:	Keep container tightly closed.
P261:	Avoid breathing dust/fumes/gas/mist/vapors/spray [As modified by IV ATP].
P262:	Do not get in eyes, on skin, or on clothing.
P273:	Avoid release into the environment.
P301+P331:	IF SWALLOWED, Do NOT induce vomiting.
P410+P411:	Protect from sunlight. Store at temperatures between 45°F [7.2°C] and 85°F [29.4°C].

SECTION 3. COMPOSITION AND INGREDIENTS INFORMATION

Chemical Name	Hazard Date	% By Weight	CAS Number	SARA 311	SARA 312	SARA 313
Aromatic Naphtha	Not Available	40% - 50%	64742-95-6	No	No	N/A
1,2,4-Trimethylbenzene	Not Available	< 25%	95-63-6	No	No	No
Glycol Ethers	April, 1986	1% - 10%	111-76-2	No	No	Yes

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.

SECTION 5. FIREFIGHTING MEASURES

FLASH POINT: 126°F Open Cup (52.2°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_2) 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_2 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: This product is best stored in its original container. Steel or HDPE containers are recommended replacements and electrically bond and ground all containers and equipment. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, aerosol and mists. Use with adequate ventilation and wash thoroughly after handling. Never use pressure to empty drums.

STORAGE: Full or partially-filled containers should always be kept upright and away from strong oxidizing agents. This product will pump down to 10°F [-12.2°C]. Nonetheless, it is recommended that full or partially-filled containers be stored in a cool dry place between 45° - 85°F [7.2° - 29.4°C]. Store in original container if possible, and keep all chemical containers away from direct sunlight and tightly closed when not in use.

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^3 (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.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Blue-Green Liquid	Odor:	Camphor Characteristic
Boiling Point:	< 340°F [< 171.1°C]	Density at 25°C (gm/cm^3):	0.91 Typical
Vapor Pressure:	< 5 @ 20°C (mm Hg)	Vapor density (Air = 1):	< 1
Solubility in Water:	Negligible	Solubility in Organic Solvents:	Soluble
pH:	Not Applicable	Flash point, COC (ASTM D-93):	126°F (52.2°C)
Pounds per Gallon:	7.6	Evaporation Rate (Butyl Acetate =1):	< 1
Freeze Point:	10°F (-12.2°C)	Volatiles By Volume:	Nil @ 68°F (20°C)

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.

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:	Petroleum Distillates, NOS
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

There are no other national and/or regional statutes or information on this product, including OSHA, Department of Transportation, Environmental Protection Agency, Consumer Product Safety Commission, and Right-To-Know Act not previously addressed in this document.

Chemical Name	CAS #	NJ TS Number
None		

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 Material 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 CR 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 Material 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 Heath 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.

The information contained in this document has been derived from analysis of published data freely available and supplied components. While the recommendations contained herein are offered in good faith and believed to be accurate and correct as of the date hereof, manufacturer makes no warranty, expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature regarding this data or the results to be obtained from use thereof. In no event will the manufacturer be liable or responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.

Technol STR-2+ Distillate & Biodiesel Conditioner

Safety Data Sheet

SECTION 1: IDENTIFICATION

Technol STR-2+ for all grades of Distillate & Blended Biodiesel Fuels

Technol Fuel Conditioners, Inc.
145 Wyckoff Road, Suite 305
Eatontown, New Jersey 07724
Contact Number: (800) 645-4033 (USA)
Emergency Numbers: (800) 424-9300 (USA)
+1-(703)-527-3887 (International)

Chem Name: Mixture of petroleum distillates
Formula: Proprietary
Issue Date: August, 1992
Revised Date: March, 2006
EPA Register: Not Applicable (Off-Road Use)

SECTION 2: HAZARDOUS IDENTIFICATION

This product is a mixture of petroleum distillates. It is not known to contain any carcinogens as listed under OSHA Communications Standard 29 CFR 1910.1200.

NAME:	Aromatic Naphtha	Glycol Ethers
CAS NUMBER:	64742-94-5	111-76-2
APPROX. % BY WT:	60 - 80%	1 - 10%
HAZARD DATE:	Not Available	1986
SARA 311:	None	None
SARA 312:	None	None
SARA 313:	N/A	Yes
PICTOGRAM:		

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

UNUSUAL CHRONIC TOXICITY:	Not known
AQUATIC TOXICITY:	Not known
PERMISSIBLE CONCENTRATION:	Estimated at 333ppm
FLAMMABLE LIMITS IN AIR:	% by volume not established
UNUSUAL FIRE & EXPLOSIVE HAZARDS:	None known
EPA HAZARDOUS SUBSTANCE:	Yes - Reportable quantity = 100 lbs. for ignitable substance

The specific chemical identities and/or exact percentage of their concentration percentage is being withheld as a trade secret.

Technol STR-2+ Distillate & Biodiesel Conditioner

Material Safety Data Sheet

SECTION 4: FIRST-AID MEASURES

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.
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.
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.
INGESTION:	Can cause irritation of the gastrointestinal tract. DO NOT INDUCE VOMITING. Deploy artificial respiration if not breathing. Get immediate medical attention.
BIOLOGICAL:	Not known.

SECTION 5: FIRE-FIGHTING MEASURES & PROCEDURES

Firefighters should always wear protective gloves, splash-proof goggles, and self-contained breathing apparatus in the positive mode with a full face-piece as standard operating procedure, especially if handing large quantities. Treat and handle this commodity as a combustible product.

EXTINGUISHING AGENTS TO AVOID:	Water or any water-based fluid.
RECOMMENDED EXTINGUISHING AGENT:	Any DRY chemical, CO_2, or chemical foam.
AREA VENTILATION:	Standard room ventilation is generally sufficient in a large area. Local exhaust vents are recommended for smaller confined areas and at the vapor source.

SECTION 6: ACCIDENTAL RELEASE MEASURES AND PROCEDURES

In the even of an accidental spill or leak, remove all sources of ignition immediately surrounding the problem area.

- Open nearby windows and ventilate the area and remove all sources of ignition.
- Contain all spills or leaks with dikes or absorbents to prevent further migration and possible entry into sewers, streams or other water bodies.
- Take up small spills or leaks with a dry chemical absorbent.
- Take up large spills or leaks with a pump or vacuum, then apply a dry chemical absorbent.

(Continued on next page)

- Extract contaminated soil affected in an outdoor spill or leak.

SECTION 7: HANDLING & STORAGE

The product is best stored in its original container. Should the need arise to transfer the product, it is recommended that steel or HDPE containers be used. This product should be handled as a "combustible petroleum product" is incompatible with rubber-, plastic-, or other lined containers.

Storage containers should be kept upright, away from direct sunlight, and tightly closed at all times when the product is not needed. Handlers should wear rubber gloves and splash-proof goggles as the standard operation procedure under normal conditions.

The product is pump-able down to 10°F (-12.2°C). It is nonetheless recommended that full or partially-filled containers be stored in warm dry areas (between 45° - 85°F) and away from direct sunlight.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

OSHA PERMISSIBLE EXPOSURE LIMITS (PELs):

AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIHs):

NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH (NIOSH):

THRESHHOLD LIMIT VALUES (TLVs):

See the **Registry of Toxic Effects of Chemical Substances**. This registry is a database of toxicity information compiled from the open scientific literature without reference to the validity or usefulness of the studies reported. Until 2001 it was maintained by the US National Institute for Occupational Safety and Health (NIOSH) as a freely available publication. It is now maintained by the private company Symyx Technologies and is available only for a fee or by subscription.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

FLASH POINT:	126°F Closed Cup	POUNDS PER GALLON:	7.6
BOILING POINT:	< 340°F (171.1°C)	pH:	Not Applicable
VAPOR DENSITY:	< 1	EVAP RATE:	< 1 (Butyl Acetate=1)
APPEARANCE:	Blue-green Liquid	VAPOR PRESSURE:	< 5mm (Hg@20°C, 68°F)
SPECIFIC GRAVITY:	0.91 (@ 25°C, 77°F)	SOLUBLE IN WATER:	Negligible
API GRAVITY:	23.6	VOLATILES BY VOLUME:	Nil (@20°C, 68°F)

Technol STR-2+ Distillate & Biodiesel Conditioner

Material Safety Data Sheet

SECTION 10: STABILITY AND REACTIVITY	
STABILITY:	This product is stable.
INCOMPATIBILITY:	Strong oxidizing agents
CONDITIONS TO AVOID:	Extreme heat and fire sources
HAZARDOUS POLYMERIZATION:	Will not occur
HAZARDOUS DECOMPOSITION:	Exposing this product to extreme heat will generate Carbon Monoxide (CO), Carbon Dioxide (CO_2), and hazardous waste water.

SECTION 11: TOXICOLOGICAL INFORMATION	
ROUTES OF EXPOSURE:	Eye contact, skin contact, inhalation of vapors, and ingestion.
CHRONIC EFFECTS:	Irritation of exposed tissue, defatting of skin, and irritation of the gastrointestinal tract.
SYMPTOMS:	Irritation of exposed tissue, dizziness, fainting, and lack of coordination.
LD50:	Not known.
NTP/IARC/OSHA:	This product is a mixture of petroleum derivatives. It is not known to contain any carcinogens as regulated by these agencies.

SECTION 12: ECOLOGICAL INFORMATION	
AQUATIC TOXICITY:	This product should be kept away from all bodies of water.
TERRESTIAL TOXICITY:	This product should be prevented from entering sewer systems.
DEGRADABILITY:	It may be necessary to extract soil where spills have occurred.
BIOACCUMULATION:	Not known.
TERRAIN MIGRATION:	Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

This section is intended to provide guidance on proper disposal practices , recycling, product reclamation and safe handling methods. To minimize exposure, please see Section 8 (Exposure Controls and Personal Protection).

WASTE DISPOSAL:	This product should be incinerated as a waste oil at a certified and registered chemical waste disposal site. In this process, the disposer must comply with Federal, State and Local chemical disposal and/or discharge statutes, requirements and regulations.
RCRA STATUS OF UNUSED PRODUCT:	Dispose this product in permitted hazardous waste sites. Keep this product away from lakes, streams, rivers, sewer systems and any other body of water.

Technol STR-2+ Distillate & Biodiesel Conditioner

Material Safety Data Sheet

SECTION 14: TRANSPORTATION INFORMATION

DESCRIPTION:	Proprietary mixture of petroleum derivatives.
HANDLING:	Mark, label and handle as a Combustible Liquid, N.O.S. Ground carriers should display the "Combustible Liquid" placard during transportation.
D.O.T. HAZARD:	Class 3, Packing Group III regardless of container or package size.
NMFC RATING:	155250-02
UN/NA NUMBER:	**NA1993** - Shipping Name = Combustible liquid, N.O.S., contains Aromatic Naphtha and Glycol Ether, not regulated when shipped in quantities smaller than 120 gallons and by ground within the United States. **UN1993** - Shipping Name = Flammable liquid, N.O.S., contains Aromatic Naphtha and Glycol Ether, when shipped in quantities larger than 120 gallons, by air, or ocean freight.
IMDG CODE:	This product is not known to be a marine pollutant according to the International Maritime Dangerous Goods code.
IBC CODE:	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.
TRANSPORT PROCESS:	Keep containers upright and tightly sealed at all times during transportation. Keep away from direct sunlight, extreme heat, and all sources of ignition. Do not transport or transfer in rubber-, plastic-, or other lined containers.
EMERGENCY NUMBER:	Chemtrec USA - (800) 42-9300

SECTION 15: REGULATORY INFORMATION

There are no other national and/or regional regulatory statutes or information on this product, including OSHA, Department of Transportation, Environmental Protection Agency, and the Consumer Product Safety Commission, which were not previously addressed in this document.

SECTION 16: OTHER INFORMATION

The Material Safety Data Sheets for this product were originally prepared in January, 1993 and revised with changes when the product was reformulated and improved in March, 2006. The latest version is on file with the National MSDS Repository and Chemtrec. Additionally, as company policy, this MSDS is provided electronically to anyone making the request, can be downloaded free of charge from our company website at http://www.technol.com, and hardcopies accompany each product shipment.

(Continued on next page)

Technol STR-2+ Distillate & Biodiesel Conditioner

Material Safety Data Sheet

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REFERENCES

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United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS), 3rd Revised Edition, United Nations, 2009.
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The information contained in this document has been derived from analysis of published data freely available and supplied components. While the recommendations contained herein are offered in good faith and believed to be accurate and correct as of the date hereof, Technol Fuel Conditioners, Inc. makes no warranty, expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature regarding this data or the results to be obtained from use thereof. In no event will Technol Fuel Conditioners, Inc. be liable or responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.