

**1. Identification****Identification****Product name:** TGC Diesel Fuel Additive**Additional identification****Chemical name:** Mixture**Recommended use and restriction on use****Recommended use:** Aftermarket Diesel**Restrictions on use:** None identified.**Details of the supplier of the safety data sheet****Supplier****Company Name:** Tec-Guard Chemical**Address:** 2929 5<sup>th</sup> Avenue  
Rock Island, Illinois  
61201**Telephone:** (800)522-1150**Emergency telephone number:**

Chemtrec: (800) 424-9300

**2. Hazard(s) identification****Hazard Classification****Physical Hazards**

Flammable liquids Category 4

**Health Hazards**

Skin Corrosion/Irritation Category 2

Serious Eye Damage/Eye  
Irritation Category 2A**Label Elements:****Hazard Symbol:****Signal Word:** Warning**Hazard Statement:** Combustible liquid.  
Causes skin irritation.  
Causes serious eye irritation.

**Precautionary Statements:**

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing. Specific treatment (see supplemental first aid instructions on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire: Use CO<sub>2</sub>, dry chemical or foam to extinguish. Water can be used to cool and protect exposed material.

**Storage:** Store in a well-ventilated place. Keep cool.

**Disposal:** Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

**Other hazards which do not result in GHS classification:** None identified.

**3. Composition/information on ingredients**

Chemical name	CAS number	Percent by Weight
Petroleum naphtha	64742-47-8	20 – 30%
2-Ethylhexanol	104-76-7	10 – 20%
Mineral oil	64742-54-7	1 – 5%

**4. First-aid measures**

**Ingestion:** Rinse mouth. Get medical attention if symptoms occur.

**Inhalation:** Remove exposed person to fresh air if adverse effects are observed.

**Skin Contact:** Take off contaminated clothing and wash before re-use. Wash skin thoroughly with soap and water. Wash with soap and water. If skin irritation occurs, get medical attention. Get medical attention if symptoms occur. Launder contaminated clothing before reuse.

**Eye contact:** Rinse cautiously with water for several minutes. Flush thoroughly with water. If irritation occurs, get medical assistance. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** See section 11.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** Treat symptomatically.

**5. Fire-fighting measures**

**General Fire Hazards:** Move containers from fire area if you can do so without risk.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** CO<sub>2</sub>, Dry chemical or Foam. Water can be used to cool and protect exposed material.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations. Vapors may travel considerable distance to a source of ignition and flash back. Water may cause splattering. Container may rupture on heating. A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for additional information.

**Special protective equipment and precautions for fire-fighters**

**Special fire-fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. See Section 8 of the SDS for Personal Protective Equipment.

**Environmental Precautions:** Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

**Methods and material for containment and cleaning up:** In case of leakage, eliminate all ignition sources. Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas.

**7. Handling and storage**

**Precautions for safe handling:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with skin. Avoid contact with eyes. Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Launder contaminated clothing before reuse.

In case of spills, beware of slippery floors and surfaces. Use grounding and bonding connection when transferring material. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures. Do not breathe thermal decomposition products. Static ignition hazard can result from handling and use. Electrically bond and ground all containers and equipment before transfer or use of material. Electrostatic buildup may occur when pouring or transferring this product from its container. The spark produced may be sufficient to ignite vapors of flammable liquids. Always transfer product by means which avoid static buildup. Avoid pouring product directly from its container into combustible or flammable solvent. Carefully evaluate processes using this product at elevated temperatures to ensure safe operating conditions. Vapours are heavier than air and will tend to accumulate in low areas. Avoid use in confined areas without adequate ventilation. Areas of inadequate ventilation could contain concentrations high enough to cause eye irritation, headaches, respiratory discomfort or nausea.

**Maximum Handling Temperature:** 45 °C 113 °F

**Conditions for safe storage, including any incompatibilities:** Store in containers made of same material as original container. Keep cool. Store in a well-ventilated place. Store away from incompatible materials. See section 10 for incompatible materials. Do not store near potential sources of ignition.

**Maximum Storage Temperature:** 45 °C 113 °F

## 8. Exposure controls/personal protection

### Control Parameters: Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Petroleum naphtha - Non-aerosol. - as total hydrocarbon vapor	TWA	200 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended (02 2012)
Petroleum naphtha	REL	100 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
Mineral oil - Inhalable fraction.	TWA	5 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended (03 2014)
Mineral oil - Mist.	REL	5 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2016)
Mineral oil - Mist.	STEL	10 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2016)
Mineral oil	IDLH	2,500 mg/m <sup>3</sup>	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
Mineral oil - Mist.	PEL	5 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (01 2017)
Mineral oil - Mist.	TWA	5 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)

**Appropriate engineering controls:** No special requirements under ordinary conditions of use and with adequate ventilation. Adequate ventilation should be provided so that exposure limits are not exceeded.

**Individual protection measures, such as personal protective equipment**

<b>General information:</b>	Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
<b>Eye/face protection:</b>	Wear tight-fitting goggles or face shield. Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.
<b>Skin Protection</b>	
<b>Hand Protection:</b>	Use nitrile or neoprene gloves. Use good industrial hygiene practices. In case of skin contact, wash hands and arms with soap and water. Chemical resistant gloves
<b>Other:</b>	Wear apron or protective clothing in case of contact. Do not wear rings, watches or similar apparel that could entrap the material. Gloves, coveralls, apron, boots as necessary to minimize contact.
<b>Respiratory Protection:</b>	A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Use respirator with an organic vapor and dust/mist cartridge if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites. Use disposable dust/mist mask if the recommended exposure limit is exceeded. Use respirator with a combination organic vapor and dust/mist cartridge.
<b>Hygiene measures:</b>	Observe good industrial hygiene practices. Avoid contact with skin. Avoid contact with eyes. Wash contaminated clothing before reuse. When using do not smoke. Wash hands before breaks and immediately after handling the product.

**9. Physical and chemical properties****Appearance**

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Dark amber
<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	Not applicable
<b>Freezing point:</b>	No data available.
<b>Boiling Point:</b>	No data available.
<b>Flash Point:</b>	145 °F (63 °C) (Pensky-Martens Closed Cup)
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.

<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Relative density:</b>	0.892 - 0.932 60.1 °F (15.6 °C)
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Insoluble in water
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	350 mm <sup>2</sup> /s ( 104 °F (40 °C) )
<b>Other information</b>	
<b>Pour Point Temperature:</b>	-39 °C

## 10. Stability and reactivity

<b>Reactivity:</b>	No data available.
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	Will not occur.
<b>Conditions to avoid:</b>	Heat, sparks, flames. Do not expose to excessive heat, ignition sources, or oxidizing materials. Strong caustic agents. Contact with acids. Excessive heat.
<b>Incompatible Materials:</b>	Strong oxidizing agents. Oxidizing agents, Reactive metals, Sodium or Calcium Hypochlorite. Avoid heat or Dehydrating Agents. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Materials reactive with hydroxyl compounds. Lead and lead alloys Strong acids.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	No data available.
<b>Ingestion:</b>	No data available.
<b>Skin Contact:</b>	Causes skin irritation.
<b>Eye contact:</b>	Causes serious eye irritation.

**Information on toxicological effects****Acute toxicity****Oral**

Product: ATEmix > 10,000 mg/kg. Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death. Ingestion can cause central nervous system effects such as headache, dizziness, drowsiness, and generalized weakness.

**Dermal**

Product: Not classified for acute toxicity based on available data.

**Inhalation**

Product: Dust and mist: ATEmix (, 4 h): 10 - 20 mg/l. High concentrations may cause headaches, dizziness, nausea, behavioral changes, weakness, drowsiness and stupor.

**Skin Corrosion/Irritation:**

Product: Remarks: Causes skin irritation. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.

**Serious Eye Damage/Eye Irritation:**

Product: Remarks: Causes serious eye irritation.

**Respiratory sensitization:**

No data available

**Skin sensitization:**

Petroleum naphtha Classification: Not a skin sensitizer. (Literature) Not a skin sensitizer.

2-Ethylhexanol Classification: Not a skin sensitizer. (Literature)

Mineral oil Classification: Not a skin sensitizer. (Read across)

**Specific Target Organ Toxicity - Single Exposure:**

Petroleum naphtha If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract similar to that observed with mineral oil. Under good industrial hygiene practices where all exposure limits are observed respiratory irritation should not be a problem.

2-Ethylhexanol Respiratory tract irritation.

**Aspiration Hazard:**

Petroleum naphtha Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death.

Mineral oil Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death.

**Other effects:**

**Chronic Effects****Carcinogenicity:**

Product:	Not available.
Petroleum naphtha	Not classified
Mineral oil	All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test. This product contains mineral oils which are severely refined and not considered carcinogenic.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

No carcinogenic components identified

**Germ Cell Mutagenicity:**

2-Ethylhexanol	This material has not exhibited mutagenic or genotoxic potential in laboratory tests.
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**Reproductive toxicity:**

Petroleum naphtha	Not classified
2-Ethylhexanol	No evidence of adverse effects were found in a developmental toxicity study of 2-ethylhexanol in rats. Doses up to 3 ml/kg applied to the skin during the most critical part of the gestation period produced evidence of toxicity to mothers, but no evidence of injury in the developing offspring. In a previous study, birth defects were observed by oral administration, an unlikely route of exposure in the workplace.

**Specific Target Organ Toxicity - Repeated Exposure:**

2-Ethylhexanol	Repeated overexposure may result in liver and kidney damage. A 14-day dermal toxicity study of 2-ethylhexanol in rats showed blood effects, decreased spleen weight and decreased triglycerides. Unknown: Target Organ(s): Blood, Liver, Spleen., Kidney
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**12. Ecological information****Ecotoxicity****Fish**

Petroleum naphtha	LL 50 (Oncorhynchus mykiss, 96 h): > 1,000 mg/l
2-Ethylhexanol	LC 50 (Fathead Minnow, 4 d): 28.2 mg/l LC 50 (Golden Orfe, 4 d): 17.1 mg/l
Mineral oil	LC 50 (Fathead Minnow, 96 h): > 100 mg/l



**Aquatic Invertebrates**

Petroleum naphtha	EC 50 (Water Flea (Daphnia Magna), 48 h): > 1,000 mg/l
2-Ethylhexanol	EC 50 (Water flea (Daphnia magna), 2 d): 39 mg/l
Mineral oil	EC 50 (Water flea (Daphnia magna), 48 h): > 10,000 mg/l EC 50 (Water flea (Daphnia magna), 21 d): > 10 mg/l NOEC (Water flea (Daphnia magna), 21 d): 10 mg/l

**Toxicity to Aquatic Plants**

Petroleum naphtha	EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 1,000 mg/l
2-Ethylhexanol	EC 50 (Green algae (Scenedesmus quadricauda), 3 d): 16.6 mg/l
Mineral oil	EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): >= 100 mg/l

**Toxicity to soil dwelling organisms**

No data available

**Sediment Toxicity**

No data available

**Toxicity to Terrestrial Plants**

No data available

**Toxicity to Above-Ground Organisms**

No data available

**Toxicity to microorganisms**

2-Ethylhexanol	EC 50 (Pseudomonas putida, 0.1 d): 540 mg/l EC 50 (Sludge, 0.5 d): > 100 mg/l
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**Persistence and Degradability****Biodegradation**

Petroleum naphtha	OECD TG 301 F, 80 %, 28 d, Readily biodegradable
2-Ethylhexanol	OECD TG 302 B, 95 %, 5 d, Readily biodegradable OECD TG 301 C, 100 %, 14 d, Readily biodegradable
Mineral oil	OECD TG 301 F, 31 %, 28 d, Not readily degradable.

**Bioaccumulative potential****Bioconcentration Factor (BCF)**

2-Ethylhexanol	Bioconcentration Factor (BCF): 25.35 (calculated)
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**Partition Coefficient n-octanol / water (log Kow)**

2-Ethylhexanol	Log Kow: 2.9 (Measured)
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**Mobility:**

2-Ethylhexanol	soil - 1.42
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**Other adverse effects**

No data available

**13. Disposal considerations**

**Disposal instructions:** Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty container contains product residue which may exhibit hazards of product.

**Contaminated Packaging:** Container packaging may exhibit hazards.

**14. Transport information****DOT**

UN number or ID number:	NA 1993
UN Proper Shipping Name:	Combustible liquid, n.o.s.(Petroleum naphtha, 2-Ethylhexanol)
Transport Hazard Class(es)	
Class:	CBL
Label(s):	NONE
Packing Group:	III
Environmental Hazards	Not regulated.
Special precautions for user:	None established

**IMDG**

Not regulated.

**IATA**

Not regulated.

**Transport in bulk according to Annex II of MARPOL and the IBC Code**

None known.

The DOT shipping information in this section is based on a bulk container. Please review the accompanying shipping papers for the correct shipping descriptions based the size of the package. Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. During transportation, steps must be taken to prevent load shifting or materials falling, and all relating legal statutes should be obeyed. Review classification requirements before shipping materials at elevated temperatures.

**15. Regulatory information****US Federal Regulations****TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

**TSCA Section 5(a)2 Significant New Use Rule (SNURs) (40CFR 721, Subpt E)**

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

None present or none present in regulated quantities.

**Superfund amendments and reauthorization act of 1986 (SARA)****SARA 311 Classifications**

Flammable (gases, aerosols, liquids, or solids)  
Skin Corrosion or Irritation  
Serious eye damage or eye irritation

**SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

**SARA 304 Emergency Release Notification**

None present or none present in regulated quantities.

**SARA 313 (TRI Reporting)**

None present or none present in regulated quantities.

**US State Regulations****US. California Proposition 65**

This product can expose you to chemicals including: Benzene (265.00PPB) which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm.



This product can expose you to chemicals including: Ethyl benzene (3.00PPM) Naphthalene (3.00PPM) which is [are] known to the State of California to cause cancer.



This product can expose you to chemicals including: Toluene (264.00PPB) which is [are] known to the State of California to cause birth defects or other reproductive harm.

**Inventory Status****Australia (AIC)**

All components are in compliance with chemical notification requirements in Australia.

**Canada (DSL/NDL)**

All substances contained in this product are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List (DSL) or are exempt.

**China (IECSC)**

This product contains a substance or polymer that has been notified and is restricted to import by the notifier.

**European Union (REACH)**

To obtain information on the REACH compliance status of this product, please e-mail REACH@SDSInquiries.com.

**Great Britain (UK REACH)**

To obtain information on the UK REACH compliance status of this product, please e-mail REACH@SDSInquiries.com.

**Japan (ENCS)**

This product contains a substance or polymer that has been notified and is restricted to import by specific legal entities.

**Korea (ECL)**

All components are in compliance in Korea.

**New Zealand (NZIoC)**

All components are in compliance with chemical notification requirements in New Zealand.

**Philippines (PICCS)**

All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).

**Switzerland (SWISS)**

All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

**Taiwan (TCSCA)**

All components of this product are listed on the Taiwan inventory.

**Turkey (KKDIK)**

To obtain information on the KKDIK compliance status of this product, please e-mail REACH@SDSInquiries.com.

**United States (TSCA)**

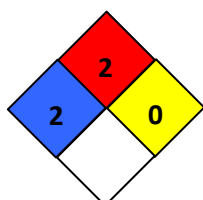
All substances contained in this product are listed on the TSCA inventory or are exempt.





*The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.*

**16. Other information, including date of preparation or last revision****HMIS Hazard ID**

<b>Health</b>		<b>2</b>
<b>Flammability</b>		<b>2</b>
<b>Physical Hazards</b>		<b>0</b>

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

**NFPA Hazard ID**

	Flammability
	Health
	Reactivity
	Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

**Issue Date:** 05/18/2023

**Version #:** 6.1

**Source of information:** Internal company data and other publicly available resources.

**Further Information:** Contact supplier (see Section 1)

**Disclaimer:**

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.