


SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	2838	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	FUEL GUARD PLUS	EMERGENCY TELEPHONE:	1-800-535-5053
PRODUCT DESCRIPTION:	Diesel Fuel Stabilizer	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION: Flammable Liquid 3: H226 Acute Toxicity 4 (Oral): H302 Acute Toxicity 4 (Dermal): H312 Acute Toxicity 4 (Inhalation: dust, mist): H332 Skin Irritant 2: H315 Eye Irritant 2: H319 Mutagenic 1B: H340 Carcinogen 1B: H350 Specific target organ toxicity – single exposure 3: H335 Specific target organ toxicity - single exposure 3: H336 Aspiration Toxicity 1: H304	SIGNAL WORD: DANGER	SYMBOL:	
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HAZARD STATEMENTS:
 Flammable liquid and vapor. Harmful if swallowed, in contact with skin or if inhaled. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer.

PRECAUTIONARY STATEMENTS:
Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, open flames, sparks. No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical, lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing fume, mist, spray, vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear eye protection, protective clothing, protective gloves.
Response: IF SWALLOWED: Immediately call a doctor, a POISON CENTER. IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF EXPOSED OR CONCERNED: Get medical advice/attention. Call a doctor, a POISON CENTER if you feel unwell. Rinse mouth. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use carbon dioxide (CO₂), dry extinguishing powder, foam to extinguish.
Storage: Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.
Disposal: Dispose of contents/container to comply with local/regional/national/international regulations.

HAZARDS NOT OTHERWISE SPECIFIED:
 No additional information available.

UNKNOWN ACUTE TOXICITY (GHS US):
 Not applicable.

3. Composition / Information on Ingredients

Chemical Name	CAS #	Concentration % by Weight	GHS-US Classification
Solvesso 100	64742-95-6	50-90	Flam. Liq. 3, H226 Muta. 1B, H340 Carc. 1B, H350 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304
Trimethylbenzene	25551-13-7	45-55	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Asp. Tox. 1, H304
1,2,4-trimethylbenzene	95-63-6	15-40	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 STOT SE 3, H335 Aquatic Chronic 2, H411
2-ethylhexyl nitrate	27247-96-7	5-10	Flam. Liq. 4, H227 Acute Tox. 4 (Inhalation), H332
Cumene	98-82-8	4-9	Flam. Liq. 3, H226 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304

Xylene	1330-20-7	0.5-5	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
Cymenes	25155-15-1	0.5-1.5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319

A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

4. First Aid Measures

EMERGENCY OVERVIEW

GENERAL: If you feel unwell, seek medical advice (show the label where possible). If exposed or concerned: Get medical advice/attention.

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.

SKIN: Take off immediately all contaminated clothing and wash it before reuse. Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.

INHALATION:

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

INGESTION:

Immediately call a poison center or doctor/physician. Rinse mouth with water. Do NOT induce vomiting.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

Symptoms/Effects: Harmful in contact with skin. Harmful if inhaled. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer.

Symptoms/Effects After Inhalation: Irritation of the respiratory tract. May cause drowsiness or dizziness. Central nervous system depression.

Symptoms/Effects After Skin Contact: Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

Symptoms/Effects After Eye Contact: Causes serious eye irritation.

Symptoms/Effects After Ingestion: May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. Gastrointestinal complaints. Cramps. Nausea. Vomiting.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Treat symptomatically.

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

Dry chemical powder. Carbon dioxide. Alcohol-resistant foam.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Fire Hazard: Flammable liquid and vapor.

Explosion Hazard: Vapors may travel long distances along ground before igniting/flashing back to vapor source.

Reactivity: Upon combustion: CO and CO₂ are formed.

SPECIFIC FIRE-FIGHTING METHODS:

Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Do not enter fire area without proper protective equipment, including respiratory protection.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

General Measures: Remove ignition sources. Use special care to avoid static electric charges.

For Nonemergency Personnel:

Protective Equipment: Protective goggles. Gloves. Protective clothing.

Emergency Procedures: Evacuate unnecessary personnel. No naked flames or sparks.

For Emergency Responders:

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Stop leak if safe to do so. Stop release. Ventilate area.

ENVIRONMENTAL PRECAUTIONS:

Avoid release to the environment. Prevent entry to sewers and public waters.

METHODS & MATERIALS FOR CONTAINMENT & CLEANUP:

For Containment: Contain released product; pump into suitable containers.

Methods for Cleaning Up: This material and its container must be disposed of in a safe way and as per local legislation. Take up liquid spill into inert absorbent material, e.g.: sand/earth. Clean contaminated surfaces with a soap solution.

REFERENCE TO OTHER SECTIONS:

No additional information available.

7. Handling and Storage

SAFE HANDLING:

Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Do not breathe vapors. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin or on clothing.

Handle and open the container with care. Keep away from sources of ignition. No smoking. Take precautions against electrostatic charges.

Obtain special instructions before use. Remove contaminated clothing immediately.

Hygiene Measures: Wash thoroughly after handling. Wash contaminated clothing before reuse.

SAFE STORAGE & INCOMPATIBILITIES:

Technical Measures: Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.

Storage Conditions: Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away from: sparks, open flames, excessive heat.

Incompatible Products: Strong oxidizers. Acids.
Incompatible Materials: Sources of ignition. Heat sources.
Storage Area: Store away from heat. Store in a cool area. Store in a dry area. Store in a well-ventilated place. Keep locked up.
Special Rules on Packaging: Keep only in original container. Meet the legal requirements.

8. Exposure Controls / Personal Protection

Trimethylbenzene (25551-13-7)

ACGIH	ACGIH TWA (ppm)	25 ppm
ACGIH	Remark (ACGIH)	CNS impair; asthma; hematologic eff

1,2,4-trimethylbenzene (95-63-6)

ACGIH	ACGIH TWA (ppm)	25 ppm
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cumene (98-82-8)

ACGIH	ACGIH TWA (ppm)	0.1 ppm
ACGIH	Remark (ACGIH)	Lung cancer; liver and lung dam; A2 (Suspected Human Carcinogen: Human data are accepted as adequate in quality but are conflicting or insufficient to classify the agent as a confirmed human carcinogen; OR, the agent is carcinogenic in experimental animals at dose(s), by route(s) of exposure, at site(s), of histologic type(s), or by mechanism(s) considered relevant to worker exposure. The A2 is used primarily when there is limited evidence or carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals with relevance to humans)
OSHA	OSHA PEL (TWA) (mg/m ³)	245 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	50 ppm

xylene (1330-20-7)

ACGIH	ACGIH TWA (ppm)	100 ppm
ACGIH	ACGIH STEL (ppm)	150 ppm
ACGIH	Remark (ACGIH)	URT & eye irr; CNS impair
OSHA	OSHA PEL (TWA) (mg/m ³)	435 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm

PERSONAL PROTECTIVE EQUIPMENT: Use appropriate personal protective equipment when risk assessment indicates this is necessary.



Eye/Face Protection: Safety glasses. Protective goggles.
Skin Protection: Gloves. Protective clothing.

9. Physical & Chemical Properties

Appearance:	Clear, gold liquid.	Flammability(solid/gas):	No data available.
Physical State:	Liquid.	Explosive Limits:	No data available.
Odor:	Solvent-like odor.	Explosive Properties:	No data available.
Odor Threshold:	No data available.	Vapor Pressure:	No data available.
pH:	No data available.	Relative Density:	No data available.
Melting/Freezing Point:	No data available.	Relative Vapor Density at 20°C:	No data available.
Boiling Point:	No data available.	Solubility:	Insoluble in water.
Viscosity:	No data available.	Auto-Ignition Temp:	No data available.
Flash Point:	108°F closed cup.	Decomposition Temp:	No data available.
Specific Gravity/Density:	0.87 g/ml	Relative evaporation rate (butyl acetate=1):	No data available.
Oxidizing Properties:	No data available.	Viscosity, dynamic:	No data available.
Viscosity, kinematic:	< 20 cSt.	Log Kow:	No data available.
Log Pow:	No data available.		

10. Stability & Reactivity Information

REACTIVITY:

Upon combustion: CO and CO₂ are formed.

CHEMICAL STABILITY:

No additional information available.

POSSIBILITY OF HAZARDOUS REACTIONS:

Refer to Section 10 on Reactivity.

CONDITIONS TO AVOID:

No additional information available.

INCOMPATIBLE MATERIALS:

Oxidizing agents. Acids.

HAZARDOUS DECOMPOSITION PRODUCTS:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological Information

PRIMARY ROUTE OF ENTRY: Skin and eye contact.

Eyes: Causes serious eye irritation.

Skin: Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

Inhalation: Irritation of the respiratory tract. May cause drowsiness or dizziness. Central nervous system depression.

Ingestion: May be fatal if swallowed and enters airways. Risk of aspiration pneumonia. Gastrointestinal complaints. Cramps. Nausea. Vomiting.

ACUTE TOXICITY:

Oral: Harmful if swallowed.

Dermal: Harmful in contact with skin.

Inhalation: dust, mist: Harmful if inhaled.

Components	Species	Test Results
2-ethylhexyl nitrate (27247-96-7)		
LD50	Rat	>9600 mg/kg (Other, Rat, Male/female, Experimental value)
ATE CLP (oral)		500 mg/kg body weight
ATE CLP (dermal)		1100 mg/kg body weight
ATE CLP (gases)		4500 ppmV/4h
ATE CLP (vapors)		11 mg/l/4h
ATE CLP (dust, mist)		1.5 mg/l/4h
Trimethylbenzene (25551-13-7)		
Acute		
<i>Oral</i>		
LD50	Rat	500 mg/kg
<i>Dermal</i>		
LD50	Rabbit	1100 mg/kg
1,2,4-trimethylbenzene (95-63-6)		
Acute		
<i>Oral</i>		
LD50	Rat	6000 mg/kg body weight (EU Method B.1 tris: Acute oral toxic – Acute toxic class method, Rat, Male, Experimental value)
<i>Dermal</i>		
LD50	Rat	3440 mg/kg (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Read-across)
<i>Inhalation</i>		
LC50	Rat (mg/l)	10.2 mg/l air (Other, 4 h, Rat, Male/female, Read-across)
ATE CLP (oral)		6000 mg/kg body weight
ATE CLP (dermal)		3440 mg/kg body weight
ATE CLP (gases)		4500 ppmV/4h
ATE CLP (vapors)		11 mg/l/4h
ATE CLP (dust, mist)		1.5 mg/l/4h
Solvesso 100 (64742-95-6)		
Acute		
<i>Oral</i>		
LD50	Rat	>2000 mg/kg
<i>Dermal</i>		
LD50	Rabbit	>3160 mg/kg
xylene (1330-20-7)		
Acute		
<i>Inhalation</i>		
LC50	Rat (ppm)	4550 ppmV/4h
ATE CLP (dermal)		1100 mg/kg body weight
ATE CLP (gases)		4550 ppmV/4h
ATE CLP (dust, mist)		1.5 mg/l/4h
cymenes (25155-15-1)		
Acute		
<i>Oral</i>		
LD50		>2000 mg/kg

SKIN CORROSION/IRRITATION:

Causes skin irritation.

SERIOUS EYE DAMAGE/EYE IRRITATION:

Causes serious eye irritation.

RESPIRATORY SENSITIZATION:

Not classified.

SKIN SENSITIZATION:

Not classified.

GERM CELL MUTAGENICITY:

May cause genetic defects.

CARCINOGENICITY:

May cause cancer.

Cumene (98-82-8)

IARC group

2B - Possibly carcinogenic to humans

xylene (1330-20-7)

IARC group

3 - Not classifiable

REPRODUCTIVE TOXICITY:

Not classified.

SPECIFIC TARGET ORGAN TOXICITY -single exposure:

May cause respiratory irritation. May cause drowsiness or dizziness.

SPECIFIC TARGET ORGAN TOXICITY -repeated exposure:

Not classified.

ASPIRATION HAZARD:

May be fatal if swallowed and enters airways.

12. Ecological Information**ECOTOXICITY:**

Components	Species	Test Results
2-ethylhexyl nitrate (27247-96-7)		
Aquatic		
Fish 1	LC50	Fish
Daphnia 1	EC50	Daphnia 1
Algae	ErC50	Alga
2 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Semi-static system, Fresh water, Experimental value)		
>12.6 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)		
3.22 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value)		
1,2,4-trimethylbenzene (95-63-6)		
Aquatic		
Fish	LC50	Fish
7.72 mg/l (96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)		
Solvesso 100 (64742-95-6)		
Aquatic		
Fish	LC50	Fish
Daphnia 1	EC50	Daphnia
18 mg/l (Pisces)		
21 mg/l (Daphnia sp.)		

PERSISTENCE AND DEGRADABILITY:

2-ethylhexyl nitrate (27247-96-7): Persistence and Degradability: Not readily biodegradable in water.

1,2,4-trimethylbenzene (95-63-6):

Persistence and Degradability: Biodegradable in the soil. Not readily biodegradable in water.

Chemical Oxygen Demand (COD): 0.44 g O₂/g substance.

Solvesso 100: Persistence and Degradability: Readily biodegradable in water.

Cymenes (25155-15-1): Persistence and Degradability: Biodegradability in water: no data available.

BIOACCUMULATIVE POTENTIAL:**2-ethylhexyl nitrate (27247-96-7):**

Log Pow: 5.24 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method).

Bioaccumulative Potential: High potential for bioaccumulation (Log Kow > 5).

1,2,4-trimethylbenzene (95-63-6):

BCF fish 1: 31 - 275 (Other, 8 week(s), Cyprinus carpio, Weight of evidence).

Log Pow: 3.63 - 4.09 (Experimental value).

Bioaccumulative Potential: Low potential for bioaccumulation (BCF < 500).

Solvesso 100: Log Pow: >3

Cymenes (25155-15-1): No bioaccumulation data available.

13. Disposal Consideration

Dispose in a safe manner in accordance with local/national regulations.

14. Transportation Information

DOT: When transported by ground in non-bulk containers, this product utilizes the exception found under 49 CFR 173.150. If any alteration of packaging, product or mode of transportation is further intended, different shipping names and labeling may be required.

IATA: No additional information available.

IMDG: No additional information available.

ADR: No additional information available.

15. Regulatory Information

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

1,2,4-trimethylbenzene	CAS-No. 95-63-6	15-40%
cumene	CAS-No. 98-82-8	4-9%
xylene	CAS-No. 1330-20-7	0.5-5%

1,2,4-trimethylbenzene (95-63-6): Subject to reporting requirements of United States SARA Section 313.

Cumene (98-82-8): Subject to reporting requirements of United States SARA Section 313.

CERCLA RQ: 5000 lb.

xylene (1330-20-7): Subject to reporting requirements of United States SARA Section 313.

CERCLA RQ: 100 lb.

WARNING: This product can expose you to benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

16. Other Information

TRAINING ADVICE: Normal use of this product shall imply use in accordance with the instructions on the packaging.

H226: Flammable liquid and vapor

H227: Combustible liquid

H302: Harmful if swallowed

H304: May be fatal if swallowed and enters airways

H312: Harmful in contact with skin

H315: Causes skin irritation

H319: Causes serious eye irritation

H320: Causes eye irritation

H332: Harmful if inhaled

H335: May cause respiratory irritation

H336: May cause drowsiness or dizziness

H340: May cause genetic defects

H350: May cause cancer

H351: Suspected of causing cancer

H411: Toxic to aquatic life with long lasting effects

DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.