


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: Flam. Liq. 3: H226 Acute Tox. 4 (Oral): H302 Acute Tox. 4 (Dermal): H312 Acute Tox. 4 (Inhalation:dust,mist): H332 Skin Irrit. 2: H315 Eye Irrit. 2: H319 Muta. 1B: H340 Carc. 1B: H350 STOT SE 3: H335 STOT SE 3: H336 Asp. Tox. 1: H304 | SIGNAL WORD: DANGER | SYMBOL: |  |
|---|--------------------------------------|----------------|---|

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 | (CAS-No.) 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 | (CAS-No.) 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 | (CAS-No.) 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 | (CAS-No.) 27247-96-7 | 5-10 | Flam. Liq. 4, H227 Acute Tox. 4 (Inhalation), H332 |
| Cumene | (CAS-No.) 98-82-8 | 4-9 | Flam. Liq. 3, H226 Carc. 2, H351 STOT SE 3, H335 Asp. Tox. 1, H304 |

| | | | |
|---------|----------------------|---------|---|
| Xylene | (CAS-No.) 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 | (CAS-No.) 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) | Value |
|-------------------------------------|-----------------|--------|
| ACGIH | Remark (ACGIH) | 25 ppm |
| CNS impair; asthma; hematologic eff | | |

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

| ACGIH | ACGIH TWA (ppm) | 25 ppm |
|-------|-----------------|--------|
| | | |

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 10.1 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: May be fatal if swallowed and enters airways.

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. 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 | | |
| Oral | rat | 500 mg/kg |
| LD50 | | |
| Dermal | rabbit | 1100 mg/kg |
| LD50 | | |
| 1,2,4-trimethylbenzene (95-63-6) | | |
| Acute | | |
| Oral | | |
| LD50 | rat | 6000 mg/kg body weight (EU Method B.1 tris: Acute oral toxic – Acute toxic class method, Rat, Male, Experimental value) |
| Dermal | | |
| LD50 | rat | 3440 mg/kg (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/fem) |
| Inhalation | | |
| 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 | | |
| Oral | | |
| LD50 | rat | >2000 mg/kg (Rat) |
| Dermal | | |
| LD50 | rabbit | >3160 mg/kg (Rabbit) |
| xylene (1330-20-7) | | |
| Acute | | |
| Inhalation | | |
| 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 | | |
| Oral | | |
| LD50 | | >2000 mg/kg (Rat) |

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 | 2 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Semi-static system, Fresh water, Experimental value) |
| Daphnia 1 EC50 | Daphnia 1 | >12.6 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value) |
| Algae ErC50 | Alga | 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 | | |
| Crustacea EC50 | | |
| 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 | 18 mg/l (Pisces) |
| Daphnia 1 EC50 | Daphnia | 21 mg/l (Daphnia sp.) |
| * Estimates for product may be based on additional component data not shown. | | |
| 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 O ₂ /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-octano | | |
| 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) | | |
| Bioaccumulative Potential: No bioaccumulation data available. | | |

13. Disposal Consideration**DISPOSAL INSTRUCTIONS:**

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

14. Transportation Information**DOT:****Other Information:** 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.