Safety Data Sheet

Issue Date: 26-Jun-2014 **Revision Date:** 13-Oct-2026 **Version** 1

1. IDENTIFICATION

Product Identifier

Product Name ProTecta All Season Diesel Fuel Conditioner

Other means of identification

SDS # SFR-005

Recommended use of the chemical and restrictions on use

Recommended Use Diesel fuel conditioner and fuel additive. Supplied only in 6 oz (177 mL) bottles; one bottle treats up to 30 gallons of diesel fuel. Use only as directed on the label. Keep out of reach of children.

Details of the supplier of the safety data sheet

Supplier Address
SFR Corporation
P.O. Box 457
Whitehall, MT 59759

Emergency Telephone Number

Company Phone Number Phone: 406-287-7836 / 1-800-735-6438
Fax: 406-287-7946

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Dark yellow, opaque **Physical State** Liquid **Odor** Petroleum

Classification

Classification of the substance or mixture (OSHA 29 CFR 1910.1200, HazCom 2024)
Flammable liquids – Category 4
Acute toxicity (oral) – Category 4
Acute toxicity (dermal) – Category 4
Acute toxicity (inhalation) – Category 4
Aspiration hazard – Category 1
Skin corrosion/irritation – Category 2
Serious eye damage/eye irritation – Category 2A
Specific target organ toxicity (single exposure) – Category 3 (respiratory tract irritation)
Specific target organ toxicity (single exposure) – Category 3 (narcotic effects)
Carcinogenicity – Category 2
Reproductive toxicity – Category 2
Specific target organ toxicity (repeated exposure) – Category 1 (central nervous system)
Specific target organ toxicity (repeated exposure) – Category 2 (kidneys)
Hazardous to the aquatic environment, acute – Category 1
Hazardous to the aquatic environment, chronic – Category 1

Label elements
Signal word: DANGER

Hazard pictograms: Exclamation mark (GHS07), Health hazard (GHS08), Environment (GHS09)



Hazard statements
H227 Combustible liquid.
H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H361 Suspected of damaging the unborn child.
H372 Causes damage to organs (central nervous system) through prolonged or repeated exposure.
H373 May cause damage to organs (kidneys) through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements
P203 Obtain, read and follow all safety instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe vapors or mist. P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves, protective clothing and eye protection.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor. P331 Do NOT induce vomiting.
P302 + P352 IF ON SKIN: Wash with plenty of water. P332 + P313 If skin irritation occurs: Get medical advice.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER or doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice.
P308 + P313 IF exposed or concerned: Get medical advice. P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use dry chemical, CO2, foam or water fog to extinguish. P391 Collect spillage.
P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.
P501 Dispose of contents and container in accordance with local, regional and national regulations.

Hazards not otherwise classified (HNOC)
None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
2-Ethylhexyl nitrate	27247-96-7	25 – 50
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	1 – 10
2-Ethylhexanol	104-76-7	1 – 10
1,2,4-Trimethylbenzene	95-63-6	1 – 10
2-Butoxyethanol	111-76-2	1 – 10
Long-chain alkenyl amido alkyl ammonio acetate	25054-76-6	0.5 – 3
Naphthalene	91-20-3	< 1
Methyl-1H-benzotriazole	29385-43-1	< 1
2,6-Di-tert-butylphenol	128-39-2	< 1
Solvent naphtha (petroleum), light aromatic	64742-95-6	< 1
1,2,3-Trimethylbenzene	526-73-8	< 1
1,3,5-Trimethylbenzene	108-67-8	< 1
Kerosine (petroleum), hydrodesulfurized	64742-81-0	< 1
m-Ethyltoluene	620-14-4	< 1
1-Ethyl-2-methylbenzene	611-14-3	< 1
p-Ethyltoluene	622-96-8	< 1
n-Propylbenzene	103-65-1	< 1
Tetraethylenepentamine	112-57-2	< 1
Amino long-chain alkyl amide	109-28-4	< 1
2,4,6-Tri-tert-butylphenol	732-26-3	< 1
2-tert-Butylphenol	88-18-6	< 1
Xylene	1330-20-7	< 1
Cumene	98-82-8	< 1
Phenol	108-95-2	< 1
Vinyl acetate	108-05-4	< 1
Cymenes	25155-15-1	< 1

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Exact percentages are withheld as a trade secret; the full composition is available to health professionals and emergency responders as provided in 29 CFR 1910.1200(i).

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST-AID MEASURES

First Aid Measures

General Advice Immediately remove contaminated clothing. Show this Safety Data Sheet to the doctor in attendance. Aspiration hazard – see Ingestion.

Eye Contact Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses if present. Get medical attention.

Skin Contact Wash skin thoroughly with soap and water. Remove contaminated clothing and shoes. Get medical attention if irritation or other symptoms develop. Wash clothing before reuse.

Inhalation Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion Do NOT induce vomiting. May be fatal if swallowed and enters airways. Rinse mouth. Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER or doctor.

Most important symptoms and effects

Symptoms Harmful if swallowed, inhaled or absorbed through the skin. Causes skin and eye irritation. Vapors or mist may irritate the respiratory tract and cause headache, dizziness, drowsiness and nausea. Swallowing can cause aspiration into the lungs, resulting in chemical pneumonitis. Prolonged or repeated exposure may damage the central nervous system and kidneys.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically. Aspiration hazard – gastric lavage only after endotracheal intubation to protect the airway.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Dry chemical. Carbon dioxide (CO2). Foam. Water spray (fog).

Unsuitable Extinguishing Media Do not use a solid water stream; it may spread the fire.

Specific Hazards Arising from the Chemical
Combustible liquid. Containers may rupture or explode when heated. Vapors are heavier than air and may travel to an ignition source and flash back. Use water spray to keep fire-exposed containers cool. Prevent fire-fighting runoff from entering drains and waterways.

Hazardous Combustion Products Carbon monoxide, carbon dioxide, oxides of nitrogen, smoke and irritating fumes.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Remove all sources of ignition. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing; avoid breathing vapors. Use personal protective equipment as required (Section 8).

Environmental Precautions Very toxic to aquatic life. Prevent entry into drains, sewers, waterways and soil. Report releases to authorities as required.

Methods and material for containment and cleaning up

Methods for Containment Stop leak if safe to do so. Dike far ahead of a large spill. Use non-sparking tools.

Methods for Clean-Up Absorb with inert, non-combustible material (sand, vermiculite, earth) and place in suitable, labeled containers for disposal. Do not flush to sewer. Dispose of in accordance with Section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Read and understand all safety precautions before handling. Avoid exposure during pregnancy. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mist. Use only with adequate ventilation. Keep away from heat, sparks, open flames and hot surfaces. Ground and bond containers when transferring from drums. Do not eat, drink or smoke when using. Wash thoroughly after handling. Keep out of reach of children.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in the original container, tightly closed, in a cool, dry, well-ventilated area away from direct sunlight, heat and ignition sources. Keep away from food, drink and animal feed. Store locked up.

Incompatible Materials Strong oxidizing agents. Strong acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines Naphthalene (91-20-3): OSHA PEL TWA 10 ppm (50 mg/m³); ACGIH TLV TWA 10 ppm, STEL 15 ppm; NIOSH REL TWA 10 ppm, STEL 15 ppm.
1,2,4-Trimethylbenzene (95-63-6) and 1,3,5- / 1,2,3-Trimethylbenzene: ACGIH TLV TWA 25 ppm (125 mg/m³); NIOSH REL TWA 25 ppm.
2-Butoxyethanol (111-76-2): OSHA PEL TWA 50 ppm (240 mg/m³) [skin]; ACGIH TLV TWA 20 ppm; NIOSH REL TWA 5 ppm (24 mg/m³) [skin].
Xylene (1330-20-7): OSHA PEL TWA 100 ppm; ACGIH TLV TWA 100 ppm, STEL 150 ppm.
Cumene (98-82-8): OSHA PEL TWA 50 ppm (245 mg/m³) [skin]; ACGIH TLV TWA 50 ppm; NIOSH REL TWA 50 ppm [skin].
Vinyl acetate (108-05-4): ACGIH TLV TWA 10 ppm, STEL 15 ppm; NIOSH REL Ceiling 4 ppm (15 mg/m³).
Kerosine, hydrodesulfurized (64742-81-0): ACGIH TLV TWA 200 mg/m³.
All other ingredients: no exposure limits established.

Appropriate engineering controls

Engineering Controls Use only with adequate ventilation. Use local exhaust ventilation or other engineering controls to keep airborne levels below exposure limits. Eyewash stations and safety showers should be available.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields; chemical goggles where splashing is possible.

Skin and Body Protection Wear chemical-resistant gloves (nitrile) and clothing suitable to prevent skin contact.

Respiratory Protection If exposure may exceed limits or ventilation is inadequate, use a NIOSH-approved organic-vapor respirator.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke in work areas. Launder contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid		
Appearance	Opaque liquid	**Odor**	Petroleum
Color	Dark yellow	**Odor Threshold**	Not determined

Property	Values	Remarks • Method
pH	Not applicable	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	Not determined	
Flash Point	151 °F (66.1 °C)	Pensky-Martens Closed Cup (PMCC)
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Liquid – Not applicable	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	(Air = 1)
Specific Gravity	0.9334	Bulk density 0.9315 g/mL (7.77 lb/gal)
Water Solubility	Insoluble	
Solubility in other solvents	Soluble in diesel fuel and petroleum solvents	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	12.09 cSt	@ 40 °C (104 °F)
Dynamic Viscosity	Not determined	
Explosive Properties	Not explosive	
Oxidizing Properties	Not oxidizing	

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under recommended storage conditions.
Possibility of Hazardous Reactions
None under normal processing.
Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid
Heat, sparks, open flames, hot surfaces and incompatible materials.
Incompatible Materials
Oxidizing materials. Strong acids.
Hazardous Decomposition Products
Carbon dioxide, carbon monoxide and oxides of nitrogen on burning.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Causes serious eye irritation.

Skin Contact Harmful in contact with skin. Causes skin irritation. Prolonged contact may dry and defat the skin.

Inhalation Harmful if inhaled. May cause respiratory irritation, drowsiness or dizziness.

Ingestion Harmful if swallowed. May be fatal if swallowed and enters airways (chemical pneumonitis).

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Ethylhexyl nitrate 27247-96-7	14,000 mg/kg (Rat)	No data available	No data available
Solvent naphtha, heavy aromatic 64742-94-5	> 5,000 mg/kg (Rat)	> 2,000 mg/kg (Rabbit)	No data available
2-Ethylhexanol 104-76-7	3,730 mg/kg (Rat)	> 3,000 mg/kg (Rat)	> 0.89 mg/L, 4 h (Rat)
1,2,4-Trimethylbenzene 95-63-6	3,400 mg/kg (Rat)	3,160 mg/kg (Rabbit)	18 mg/L, 4 h (Rat)
2-Butoxyethanol 111-76-2	470 mg/kg (Rat)	No data available	No data available
Naphthalene 91-20-3	490 mg/kg (Rat)	20,000 mg/kg (Rabbit)	No data available

Information on physical, chemical and toxicological effects

Symptoms Please see Section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Suspected of causing cancer (Category 2). Naphthalene: IARC Group 2B, NTP reasonably anticipated to be a human carcinogen, ACGIH A3. Cumene and vinyl acetate: IARC Group 2B. Not listed as carcinogens by OSHA.

Numerical measures of toxicity

Acute toxicity: Category 4 by the oral, dermal and inhalation routes. Reproductive toxicity: suspected of damaging the unborn child (Category 2).
Repeated exposure: causes damage to the central nervous system (Category 1); may cause damage to the kidneys (Category 2).
Aspiration hazard: Category 1 (kinematic viscosity 12.09 cSt at 40 °C).

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects. The product has not been tested; this statement is derived from the properties of the individual components. Keep out of waterways, sewers and soil.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Solvent naphtha, heavy aromatic 64742-94-5	ErC50 (72 h): 2.5 mg/L	LC50 (96 h, Fathead minnow): 45 mg/L	Not determined	EC50 (48 h, Daphnia magna): 12 mg/L
2-Ethylhexyl nitrate 27247-96-7	Not available	LC50 (96 h, Rainbow trout): 1.16 mg/L	Not determined	Not available
2-Ethylhexanol 104-76-7	ErC50 (24 h): 1,300 mg/L	LC50 (96 h, Golden orfe): 17.1 mg/L	Not determined	EC50 (48 h, Daphnia magna): 39 mg/L
1,2,4-Trimethylbenzene 95-63-6	ErC50 (96 h): 2.96 mg/L	LC50 (96 h, Fathead minnow): 7.72 mg/L	Not determined	EC50 (48 h, Daphnia magna): 3.6 mg/L
Naphthalene 91-20-3	ErC50 (96 h): 68.21 mg/L	LC50 (96 h, Rainbow trout): 1.6 mg/L	Not determined	EC50 (48 h, Daphnia magna): 2.16 mg/L
Long-chain alkenyl amido alkyl ammonio acetate 25054-76-6	ErC50 (72 h): 85.4 mg/L	LC50 (96 h, Rainbow trout): 0.406 mg/L	Not determined	EC50 (48 h, Daphnia magna): 33.6 mg/L

Persistence/Degradability
No data available.

Bioaccumulation
Heavy aromatic solvent naphtha: high bioaccumulation potential (log Pow 2.8 – 6.5; BCF 99 – 5,780). Other components: low potential.

Mobility
No data available.

Other Adverse Effects
No data available.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Dispose of via a licensed waste disposal contractor in accordance with applicable regional, national and local laws and regulations. Do not allow to enter drains, sewers or waterways. The generator is responsible for determining whether the waste is hazardous under RCRA.

Contaminated Packaging Empty containers retain product residue and can be hazardous. Do not cut, weld, grind or pressurize empty containers. Dispose of in accordance with applicable regulations.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for the most up-to-date shipping information, including exemptions and special circumstances. Flash point 151 °F (66.1 °C): combustible, not flammable.

DOT Not regulated as supplied (6 oz bottles): as a combustible liquid in non-bulk packaging it is not subject to the Hazardous Materials Regulations (49 CFR 173.150(f)). Bulk packagings only: NA1993, Combustible liquid, n.o.s. (contains solvent naphtha, naphthalene), PG III.

IATA Not regulated as supplied (6 oz bottles): single or inner packagings of 5 L or less are not subject to the regulations (Special Provision A197). Packagings over 5 L only: UN3082, Environmentally hazardous substance, liquid, n.o.s. (contains solvent naphtha, naphthalene), Class 9, PG III.

IMDG Not regulated as supplied (6 oz bottles): single or inner packagings of 5 L or less are not subject to the Code (IMDG 2.10.2.7). Packagings over 5 L only: UN3082, Environmentally hazardous substance, liquid, n.o.s. (contains solvent naphtha, naphthalene), Class 9, PG III, Marine Pollutant.

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
2-Ethylhexyl nitrate 27247-96-7	Present									
Solvent naphtha, heavy aromatic 64742-94-5	Present									
2-Ethylhexanol 104-76-7	Present									
1,2,4-Trimethylbenzene 95-63-6	Present									
2-Butoxyethanol 111-76-2	Present									

Legend:

TSCA *- United States Toxic Substances Control Act Section 8(b) Inventory*

DSL/NDSL *- Canadian Domestic Substances List/Non-Domestic Substances List*

EINECS/ELINCS *- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

ENCS *- Japan Existing and New Chemical Substances*

IECSC *- China Inventory of Existing Chemical Substances*

KECL *- Korean Existing and Evaluated Chemical Substances*

PICCS *- Philippines Inventory of Chemicals and Chemical Substances*

AICS *- Australian Inventory of Chemical Substances*

US Federal Regulations

SARA 313

This product contains the following chemicals subject to the reporting requirements of Section 313 of Title III of SARA and 40 CFR Part 372: 1,2,4-Trimethylbenzene (1 – 10 %); 2-Butoxyethanol, as Certain glycol ethers (1 – 10 %); Naphthalene (< 1 %); Xylene (< 1 %); Cumene (< 1 %).

SARA 311/312 Hazard Categories

Flammable (gases, aerosols, liquids, or solids); Acute toxicity; Skin corrosion or irritation; Serious eye damage or eye irritation; Specific target organ toxicity (single or repeated exposure); Aspiration hazard; Carcinogenicity; Reproductive toxicity.

CERCLA

Reportable quantities: Naphthalene 100 lb; Xylene 100 lb; Cumene 5,000 lb. Because these are present below 1 %, the reportable quantity of the product is above 10,000 lb.

US State Regulations

U.S. State Right-to-Know Regulations

New Jersey and Pennsylvania Right-to-Know: 2-Ethylhexyl nitrate, 2-Butoxyethanol, Naphthalene, Solvent naphtha (heavy aromatic). Minnesota and Rhode Island Right-to-Know: 2-Butoxyethanol. Massachusetts: all listed ingredients are disclosed in Section 3.

California Proposition 65

WARNING: This product can expose you to chemicals including cumene and naphthalene, which are known to the State of California to cause cancer, and methyl-1H-benzotriazole, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

16. OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	2	2	0	None
HMIS	**Health Hazards**	**Flammability**	**Physical Hazards**	**Personal Protection**
	2*	2	0	B (safety glasses, gloves)

Issue Date: 26-Jun-2014
Revision Date: 13-Oct-2026
Revision Note: Corrected flash point (151 °F, combustible); new GHS format (HazCom 2024)

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet