

SAFETY DATA SHEET

1. Identification

Product identifier Fuel Therapy® Diesel Injector Cleaner Plus

Other means of identification

Product code 05225, 05255 Fuel additive Recommended use Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name

CRC Industries, Inc.

Address

885 Louis Dr.

Warminster, PA 18974 US

Telephone

Website

General Information

215-674-4300 800-521-3168

Technical Assistance

Customer Service

800-272-4620

24-Hour Emergency

800-424-9300 (US)

(CHEMTREC)

703-527-3887 (International) www.crcindustries.com

2. Hazard(s) identification

Physical hazards Flammable liquids Category 3 Health hazards Skin corrosion/irritation Category 2 Germ cell mutagenicity Category 2

> Carcinogenicity Category 2

Specific target organ toxicity, single exposure

Category 3 respiratory tract irritation

Specific target organ toxicity, single exposure

Category 3 narcotic effects

Aspiration hazard

Category 1

Environmental hazards

Hazardous to the aquatic environment, acute

hazard

Category 3

Hazardous to the aquatic environment,

Category 3

long-term hazard

OSHA defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing genetic defects. Suspected of causing cancer. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Avoid breathing mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

Response

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical attention. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If exposed or concerned: Get medical attention. In case of fire: Do not use water jet as an extinguisher, as this will spread the fire.

Storage

Store in a well-ventilated place. Keep cool. Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national regulations,

Hazard(s) not otherwise classified (HNOC)

None known.

3. Composition/information on ingredients

ixtures			
Chemical name	Common name and synonyms	CAS number	%
Diesel Fuel No. 2		68476-34-6	80 - 90
Stoddard Solvent		8052-41-3	10 - 20
Solvent naphtha (petroleum), heavy arom.		64742-94-5	1 - 3
Naphthalene		91-20-3	< 1

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation 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.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation

occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

volinting docurs, recep flead low so that stomach content docsn't get into the jungs

Most important symptoms/effects, acute and delayed

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Aspiration may cause pulmonary edema and pneumonitis. Direct contact with eyes may cause temporary irritation. May cause respiratory irritation. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

General information

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special protective equipment Self-con and precautions for firefighters

Fire-fighting equipment/instructions General fire hazards

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Prevent entry into waterways, sewer, basements or confined areas.

Environmental precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, please see the product label.

Conditions for safe storage, including any incompatibilities

Occupational exposure limits

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Keep container tightly closed. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

10 ppm

8. Exposure controls/personal protection

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Value Components Type Naphthalene (CAS 91-20-3) PEL 50 mg/m3 10 ppm 400 mg/m3 PEL Solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5) 100 ppm 2900 mg/m3 PEL Stoddard Solvent (CAS 8052-41-3) 500 ppm **US. ACGIH Threshold Limit Values** Form Value Components Type 100 mg/m3 Inhalable fraction and Diesel Fuel No. 2 (CAS **TWA** 68476-34-6) vapor.

TWA

Naphthalene (CAS 91-20-3)

JS. ACGIH Threshold Limit Values
Components

Type **TWA**

Value 200 mg/m3

Form Non-aerosol.

Solvent naphtha (petroleum), heavy arom.

(CAS 64742-94-5) Stoddard Solvent (CAS

TWA

100 ppm

8052-41-3) US. NIOSH: Pocket Guide to Chemical Hazards

Components

Type

Value

Naphthalene (CAS 91-20-3)

STEL

75 mg/m3 15 ppm

TWA

50 mg/m3 10 ppm 1800 mg/m3

Stoddard Solvent (CAS 8052-41-3)

Ceiling TWA

350 mg/m3

Biological limit values

No biological exposure limits noted for the ingredient(s),

Exposure guidelines

US ACGIH Threshold Limit Values: Skin designation

Diesel Fuel No. 2 (CAS 68476-34-6) Naphthalene (CAS 91-20-3)

Can be absorbed through the skin, Can be absorbed through the skin. Can be absorbed through the skin.

Solvent naphtha (petroleum), heavy arom. (CAS

64742-94-5)

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. 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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear protective gloves such as: Nitrile, Neoprene, Polyvinyl chloride (PVC),

Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state

Liquid. Liquid.

Form Color

Dark amber.

Odor

Petroleum.

Odor threshold

Not available.

Melting point/freezing point

Not available.

Initial boiling point and boiling

-94 °F (-70 °C) estimated

315 °F (157.2 °C) estimated

range

Flash point

140 °F (60 °C) Tag Closed Cup

Evaporation rate

Not available. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower

0.6 % estimated

(%)

Flammability limit - upper

7.5 % estimated

(%)

Vapor pressure

0.7 hPa estimated

Vapor density

> 1 (air = 1)

Relative density

0.84

Solubility (water)

Negligible.

Partition coefficient

(n-octanol/water)

Not available.

Auto-ignition temperature

450 °F (232.2 °C) estimated

Decomposition temperature

Not available.

Viscosity (kinematic)

Not available.

Percent volatile

97.2 % estimated

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

products

Carbon oxides. Hydrocarbons.

11. Toxicological information

Information on likely routes of exposure

Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious Ingestion

chemical pneumonia.

May cause drowsiness and dizziness. Headache. Nausea, vomiting. May cause irritation to the Inhalation

respiratory system.

Skin contact

Causes skin irritation.

Eye contact

Direct contact with eves may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics May cause drowsiness and dizziness. Headache. Nausea, vomiting. Aspiration may cause pulmonary edema and pneumonitis. May cause respiratory irritation. Skin irritation. May cause

redness and pain.

Information on toxicological effects

Fuel Therapy® Diesel Injector Cleaner Plus

May be fatal if swallowed and enters airways. Narcotic effects. May cause respiratory irritation. Acute toxicity

Product Test Results

Acute

Dermal

LD50

Rabbit

2222.2222 mg/kg estimated

Inhalation

LC50

Rat

697.6898 mg/l, 4 hours estimated

Oral LD50

Rat

5733.9448 mg/kg estimated

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory sensitization

Not available.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

Suspected of causing genetic defects.

Carcinogenicity

Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Diesel Fuel No. 2 (CAS 68476-34-6)

3 Not classifiable as to carcinogenicity to humans.

Naphthalene (CAS 91-20-3)

2B Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

Naphthalene (CAS 91-20-3)

Reasonably Anticipated to be a Human Carcinogen.

Reproductive toxicity

Specific target organ toxicity -

This product is not expected to cause reproductive or developmental effects.

single exposure

May cause respiratory irritation. May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure Aspiration hazard

Not classified.

May be fatal if swallowed and enters airways, If aspirated into lungs during swallowing or vomiting,

may cause chemical pneumonia, pulmonary injury or death.

Chronic effects

Prolonged exposure may cause chronic effects.

12. Ecological information

otoxicity	Harmful to	aquatic life with long lasting e	ffects.
Product		Species	Test Results
Fuel Therapy® Diesel	Injector Cleaner Pl	JS	
Aquatic			
Acute			
Crustacea	EC50	Daphnia	1.8698 mg/l, 48 hours estimated
Fish	LC50	Fish	38.0413 mg/l, 96 hours estimated
Components		Species	Test Results
Diesel Fuel No. 2 (CA	S 68476-34-6)		

Aquatic

Acute

Fish LC50 Fathead minnow (Pimephales promelas) 35 mg/l, 96 hours

Naphthalene (CAS 91-20-3)

Aquatic

Acute

Crustacea

EC50

Water flea (Daphnia magna)

1.09 - 3.4 mg/l, 48 hours

Fish

LC50

Rainbow trout, donaldson trout

1.6 mg/l, 96 hours

(Oncorhynchus mykiss)

Solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)

Aquatic

Crustacea

EC50

Water flea (Daphnia pulex)

2.7 - 5.1 mg/l, 48 hours

Fish

LC50

Rainbow trout, donaldson trout

8.8 mg/l, 96 hours

(Oncorhynchus mykiss)

8.8 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available.

Partition coefficient n-octanol / water (log Kow)

Naphthalene

3.3

Stoddard Solvent

3.16 - 7.15

Mobility in soil

No data available.

^{*} Estimates for product may be based on additional component data not shown.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal of waste from residues / unused products

This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 - 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.

Hazardous waste code

Not regulated.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

NON-BULK

Not regulated as dangerous goods by ground.

DOT

Air

UN number

UN1268

UN proper shipping name

Petroleum distillates, n.o.s. or Petroleum products, n.o.s.

Transport hazard class(es)

Class

3

Subsidiary risk

3

Label(s) Packing group

III

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions

144, B1, IB3, T4, TP1, TP29 150

Packaging exceptions

Packaging non bulk

203

Packaging bulk

242

DOT

Maritime

UN number

UN1268

UN proper shipping name

Transport hazard class(es)

Petroleum distillates, n.o.s. or Petroleum products, n.o.s.

Class

3

Subsidiary risk

Label(s)

3

Packing group

Ш

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions

144, B1, IB3, T4, TP1, TP29

Packaging exceptions

150

Packaging non bulk

203

Packaging bulk

242

IATA

UN number

UN1268

UN proper shipping name

Petroleum products, n.o.s.

Transport hazard class(es) Class

ERG Code

3

Subsidiary risk

Packing group

Ш

Environmental hazards

No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed.

aircraft

Cargo aircraft only

Allowed.

IMDG

UN number

UN1268

UN proper shipping name

PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S.

Transport hazard class(es)

Class

3

Subsidiary risk

Ш

Packing group **Environmental hazards**

Marine pollutant

No.

EmS

F-E, S-E

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Naphthalene (CAS 91-20-3)

CERCLA Hazardous Substance List (40 CFR 302.4)

Naphthalene (CAS 91-20-3)

CERCLA Hazardous Substances: Reportable quantity

Naphthalene (CAS 91-20-3)

100 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug

Not regulated.

Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 Hazard categories Immediate Hazard - Yes Delayed Hazard - Yes

Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

No

hazardous substance

US state regulations

US, California Controlled Substances, CA Department of Justice (California Health and Safety Code Section 11100)

US. New Jersey Worker and Community Right-to-Know Act

Stoddard Solvent (CAS 8052-41-3)

Diesel Fuel No. 2 (CAS 68476-34-6)

Naphthalene (CAS 91-20-3)

Solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5)

US. Massachusetts RTK - Substance List

Stoddard Solvent (CAS 8052-41-3)

US. Pennsylvania Worker and Community Right-to-Know Law

Naphthalene (CAS 91-20-3)

Diesel Fuel No. 2 (CAS 68476-34-6)

Stoddard Solvent (CAS 8052-41-3)

US. Rhode Island RTK

Naphthalene (CAS 91-20-3)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Benzene (CAS 71-43-2)

Listed: February 27, 1987

Naphthalene (CAS 91-20-3)

Listed: April 19, 2002

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Benzene (CAS 71-43-2)

Listed: December 26, 1997

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Benzene (CAS 71-43-2)

Listed: December 26, 1997

Volatile organic compounds (VOC) regulations

VOC content (40 CFR

97.2 %

51.100(s))

Consumer products

Not regulated

(40 CFR 59, Subpt. C)

State

Consumer products

Not regulated

VOC content (CA)

97.2 %

VOC content (OTC)

97.2 %

Inventory name

Domestic Substances List (DSL)

International Inventories

Australia

Canada

Country(s) or region

Odridud	Domestic Gubstanees List (DGL)	163
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

Australian Inventory of Chemical Substances (AICS)

Yes

Yes

Yes

On inventory (yes/no)*

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

16. Other information, including date of preparation or last revision

03-09-2015 Issue date Version # 01

United States & Puerto Rico

CRC # 605P

Further information HMIS® ratings

Health: 1*

Flammability: 2 Physical hazard: 0 Personal protection: B

NFPA ratings

Health: 1 Flammability: 2

Instability: 0

NFPA ratings



Disclaimer

CRC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Industries.