



SAFETY DATA SHEET

1. Identification

| | |
|---|--|
| Product identifier | Fuel Therapy™ Diesel Injector Cleaner Plus |
| Other means of identification | |
| Product Code | No. 75202 (Item# 1006356) |
| Recommended use | Fuel additive |
| Recommended restrictions | None known. |
| Manufacturer/Importer/Supplier/Distributor information | |
| Manufactured or sold by: | |
| Company name | CRC Canada Co. |
| Address | 2-1246 Lorimar Drive Mississauga, Ontario L5S 1R2 Canada |
| Telephone | |
| General Information | 905-670-2291 |
| 24-Hour Emergency (CHEMTREC) | 800-424-9300 (Canada) 703-527-3887 (International) |
| Website | www.crc-canada.ca |
| E-mail | Support.CA@crcindustries.com |

2. Hazard(s) identification

| | | |
|------------------------------|--|-------------|
| Physical hazards | Flammable liquids | Category 3 |
| Health hazards | Acute toxicity, inhalation | Category 4 |
| | Skin corrosion/irritation | Category 2 |
| | Serious eye damage/eye irritation | Category 2A |
| | Germ cell mutagenicity | Category 2 |
| | Carcinogenicity | Category 2 |
| | Aspiration hazard | Category 1 |
| Environmental hazards | Hazardous to the aquatic environment, acute hazard | Category 2 |
| | Hazardous to the aquatic environment, long-term hazard | Category 2 |

Label elements



Signal word Danger

Hazard statement Flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. Suspected of causing genetic defects. Suspected of causing cancer. Toxic to aquatic life. Toxic 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, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use non-sparking tools. Take action to prevent static discharges. Use explosion-proof electrical/ventilating/lighting equipment. Avoid breathing vapors. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. 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. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. 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. IF exposed or concerned: Get medical advice/attention. In case of fire: Do not use water jet as an extinguisher, as this will spread the fire. Collect spillage. |
| Storage | Store in a well-ventilated place. Keep cool. Store locked up. |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Other hazards | None known. |
| Supplemental information | None. |

3. Composition/information on ingredients

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|---|--------------------------|------------|----------|
| distillates (petroleum), hydrodesulfurized middle | | 64742-80-9 | 80 - 100 |
| distillates (petroleum), hydrotreated light | | 64742-47-8 | 3 - 7 |
| naphtha (petroleum), hydrotreated heavy | | 64742-48-9 | 3 - 7 |
| oleic acid | | 112-80-1 | 1 - 5 |
| 2-ethylhexanol | | 104-76-7 | 0.1 - 1 |

The exact percentage (concentration) of composition has been withheld as a trade secret.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

| | |
|---|---|
| Inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. 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. Continue rinsing. 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. |
| Most important symptoms/effects, acute and delayed | Aspiration may cause pulmonary edema and pneumonitis. Dizziness. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. 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 warm. 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 | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂). |
| 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 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. |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire fighting equipment/instructions | In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. |
| General fire hazards | 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. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. 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). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

Environmental precautions

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

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. Use non-sparking tools and explosion-proof equipment. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

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. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

| Components | Type | Value | Form |
|--|------|---------------------|---------------------|
| distillates (petroleum), hydrodesulfurized middle (CAS 64742-80-9) | TWA | 5 mg/m ³ | Inhalable fraction. |

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

| Components | Type | Value | Form |
|--|------|----------------------------------|--------|
| distillates (petroleum), hydrodesulfurized middle (CAS 64742-80-9) | TWA | 1590 mg/m ³ | |
| distillates (petroleum), hydrotreated light (CAS 64742-47-8) | TWA | 400 ppm 200 mg/m ³ | Vapor. |
| naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9) | TWA | 1590 mg/m ³ | |
| | | 400 ppm | |

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

| Components | Type | Value | Form |
|--|------|-----------------------|--------------|
| distillates (petroleum), hydrotreated light (CAS 64742-47-8) | TWA | 200 mg/m ³ | Non-aerosol. |

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

| Components | Type | Value | Form |
|--|------|---------|---------------------|
| distillates (petroleum), hydrodesulfurized middle (CAS 64742-80-9) | TWA | 5 mg/m3 | Inhalable fraction. |

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

| Components | Type | Value | Form |
|--|------|-----------|---------------------|
| distillates (petroleum), hydrodesulfurized middle (CAS 64742-80-9) | TWA | 5 mg/m3 | Inhalable fraction. |
| naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9) | TWA | 525 mg/m3 | |

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

| Components | Type | Value |
|--|------|-----------------------|
| distillates (petroleum), hydrodesulfurized middle (CAS 64742-80-9) | TWA | 1590 mg/m3 |
| distillates (petroleum), hydrotreated light (CAS 64742-47-8) | TWA | 400 ppm 1590 mg/m3 |
| naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9) | TWA | 400 ppm 1590 mg/m3 |
| | | 400 ppm |

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines**Canada - Alberta OELs: Skin designation**

distillates (petroleum), hydrotreated light (CAS 64742-47-8) Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

distillates (petroleum), hydrotreated light (CAS 64742-47-8) Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

distillates (petroleum), hydrotreated light (CAS 64742-47-8) Can be absorbed through the skin.

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 should 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.

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

Observe any medical surveillance requirements. 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. |
| Form | Liquid. |
| Color | Dark amber. |

Odor Petroleum.

Odor threshold Not available.

pH Not available.

Melting point/freezing point 61.3 °F (16.3 °C) estimated

Initial boiling point and boiling range 315 °F (157.2 °C) estimated

Flash point 140 °F (60 °C) Tag Closed Cup

Evaporation rate Slow.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) 0.6 % estimated

Flammability limit - upper (%) 7.5 % estimated

Vapor pressure 0.6 hPa estimated

Vapor density > 1 (air = 1)

Relative density 0.81

Solubility(ies)

Solubility (water) Negligible.

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature 450 °F (232.2 °C) estimated

Decomposition temperature Not available.

Viscosity Not available.

Other information

Percent volatile 95.8 % 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.

11. Toxicological information

Information on likely routes of exposure

Inhalation Harmful if inhaled.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

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

Symptoms related to the physical, chemical and toxicological characteristics Aspiration may cause pulmonary edema and pneumonitis. Dizziness. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. Harmful if inhaled.

| Components | Species | Test Results |
|------------|---------|--------------|
|------------|---------|--------------|

2-ethylhexanol (CAS 104-76-7)

Acute

Dermal

| | | |
|------|--------|------------|
| LD50 | Rabbit | 1986 mg/kg |
|------|--------|------------|

Oral

| | | |
|------|-----|------------|
| LD50 | Rat | 2053 mg/kg |
|------|-----|------------|

distillates (petroleum), hydrodesulfurized middle (CAS 64742-80-9)

Acute

Dermal

| | | |
|------|--------|--------------|
| LD50 | Rabbit | > 2000 mg/kg |
|------|--------|--------------|

distillates (petroleum), hydrotreated light (CAS 64742-47-8)

Acute

Dermal

| | | |
|------|-----|--------------|
| LD50 | Rat | > 2000 mg/kg |
|------|-----|--------------|

Inhalation

| | | |
|------|-----|---------------------|
| LC50 | Rat | > 5.2 mg/l, 4 hours |
|------|-----|---------------------|

naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)

Acute

Dermal

| | | |
|------|--------|--------------|
| LD50 | Rabbit | > 2000 mg/kg |
|------|--------|--------------|

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

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity Suspected of causing genetic defects.

Carcinogenicity Suspected of causing cancer.

ACGIH Carcinogens

| | |
|--|--------------------------------|
| distillates (petroleum), hydrodesulfurized middle (CAS 64742-80-9) | A2 Suspected human carcinogen. |
|--|--------------------------------|

A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

| | |
|--|---|
| distillates (petroleum), hydrodesulfurized middle (CAS 64742-80-9) | Not classifiable as a human carcinogen. |
|--|---|

Suspected human carcinogen.

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

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

| Components | Species | Test Results |
|--|---------|---|
| 2-ethylhexanol (CAS 104-76-7) | | |
| Aquatic | | |
| Fish | LC50 | Bluegill (<i>Lepomis macrochirus</i>) |
| | | 10 - 33 mg/l, 96 hours |
| <i>Acute</i> | | |
| Crustacea | EC50 | Water flea (<i>Daphnia magna</i>) |
| | | 39 mg/l, 48 hours |
| distillates (petroleum), hydrodesulfurized middle (CAS 64742-80-9) | | |
| Aquatic | | |
| Fish | LC50 | Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>) |
| | | 8.8 mg/l, 96 hours |
| | | 8.8 mg/l, 96 hours |
| <i>Acute</i> | | |
| Crustacea | EC50 | Water flea (<i>Daphnia magna</i>) |
| | | 1.09 - 3.4 mg/l, 48 hours |
| distillates (petroleum), hydrotreated light (CAS 64742-47-8) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Crustacea | EC50 | Water flea (<i>Daphnia magna</i>) |
| | | 1.1 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (<i>Pimephales promelas</i>) |
| | | 3 mg/l, 96 hours |
| naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9) | | |
| Aquatic | | |
| Crustacea | EC50 | Water flea (<i>Daphnia pulex</i>) |
| | | 2.7 - 5.1 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>) |
| | | 8.8 mg/l, 96 hours |
| | | 8.8 mg/l, 96 hours |
| oleic acid (CAS 112-80-1) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Fish | LC50 | Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>) |
| | | 56 mg/l, 96 hours |

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

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Mobility in soil No data available.

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 instructions 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 of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code Not regulated.

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

14. Transport information

TDG

| | |
|-----------------------------------|--|
| UN number | UN1268 |
| UN proper shipping name | PETROLEUM PRODUCTS, N.O.S., Limited Quantity |
| Transport hazard class(es) | |
| Class | 3 |
| Subsidiary risk | - |

Packing group III
Environmental hazards No.
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Special provisions 16

IATA

UN number UN1268
UN proper shipping name Petroleum products, n.o.s., Limited Quantity
Transport hazard class(es)
Class 3
Subsidiary risk -
Packing group III
Environmental hazards No.
ERG Code 3L
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Other information
Passenger and cargo aircraft Allowed with restrictions.
Cargo aircraft only Allowed with restrictions.

IMDG

UN number UN1268
UN proper shipping name PETROLEUM DISTILLATES, N.O.S. or PETROLEUM PRODUCTS, N.O.S., Limited Quantity
Transport hazard class(es)
Class 3
Subsidiary risk -
Packing group III
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

Canadian regulations

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| China | Inventory of Existing Chemical Substances in China (IECSC) | No |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | No |
| 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 |
| Taiwan | Taiwan Toxic Chemical Substances (TCS) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*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).

16. Other information

| | |
|-----------------------------|--|
| Issue date | 04-11-2017 |
| Revision date | 02-16-2018 |
| Version # | 02 |
| Further information | CRC # 605Q/1002643 |
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| Revision information | Product and Company Identification: Product Codes Composition/information on ingredients: Component information Accidental release measures: Personal precautions, protective equipment and emergency procedures Accidental release measures: Methods and materials for containment and cleaning up Handling and storage: Conditions for safe storage, including any incompatibilities Transport Information: Material Transportation Information Other information: Further information |