

# Fuel Right Winter Max

## Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

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Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : Fuel Right Winter Max

#### 1.2. Recommended use and restrictions on use

Recommended use : Fuel additives

#### 1.3. Supplier

##### Manufacturer

Fuel Right  
41 Gerday Drive  
Wilmington, 19804 - USA  
T 302-425-4400

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC (800) 424-9300

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Flam. Liq. 4  
Skin Irrit. 2  
Eye Dam. 1  
Carc. 2  
Repr. 2  
STOT RE 2  
Asp. Tox. 1

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

Combustible liquid  
Causes skin irritation  
Causes serious eye damage  
Suspected of causing cancer  
Suspected of damaging fertility or the unborn child  
May cause damage to organs through prolonged or repeated exposure  
May be fatal if swallowed and enters airways

Precautionary statements (GHS US) :

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.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash hands, forearms and face thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If exposed or concerned: Get medical advice/attention.  
If swallowed: Immediately call a poison center or doctor.  
Do NOT induce vomiting.  
If on skin: Wash with plenty of water.  
Take off contaminated clothing and wash it before reuse.  
If skin irritation occurs: Get medical advice/attention.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a poison center or doctor.

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Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                                       | Product identifier     | %         |
|--|------------------------|-----------|
| Solvent naphtha, petroleum, heavy aromatic | (CAS-No.) 64742-94-5   | 10 – 30   |
| Dipropylene glycol monomethyl ether        | (CAS-No.) 34590-94-8   | 5 – 10    |
| Cyclic Amino Compound                      | (CAS-No.) Trade Secret | 1 – 5     |
| Naphthalene                                | (CAS-No.) 91-20-3      | 1 – 5     |
| Kerosine(petroleum),hydrodesulfurized      | (CAS-No.) 64742-81-0   | 0.1 – 1.5 |
| Aliphatic Diamine                          | (CAS-No.) Trade Secret | 0.1 – 1.5 |
| Hexanoic acid, 2-ethyl-, ethenyl ester     | (CAS-No.) 94-04-2      | < 0.3     |

Comments : \*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
- First-aid measures after ingestion : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after inhalation : May cause irritation to the respiratory tract.
- Symptoms/effects after skin contact : Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
- Symptoms/effects after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
- Symptoms/effects after ingestion : May be fatal if swallowed and enters airways. May result in aspiration into the lungs, causing chemical pneumonia.
- Chronic symptoms : Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

### 4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Dry chemical. Foam. Carbon dioxide (CO<sub>2</sub>).
- Unsuitable extinguishing media : None known.

### 5.2. Specific hazards arising from the chemical

- Fire hazard : Combustible liquid. Products of combustion may include, and are not limited to: oxides of carbon. Oxides of nitrogen.

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### 5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Use water spray to keep fire-exposed containers cool.  
Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Use special care to avoid static electric charges. Use only non-sparking tools.

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

- For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).  
Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Do not swallow. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear cold insulating gloves/face shield/eye protection. Handle and open container with care. Do not eat, drink or smoke when using this product.  
Hygiene measures : Take off contaminated clothing and wash it before reuse. Wash hands, forearms and face thoroughly after handling.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep out of the reach of children. Store tightly closed in a dry, cool and well-ventilated place. Store locked up.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

|   |  |
|---|--|
| <b>Fuel Right Winter Max</b>                            |  |
| No additional information available                     |  |
| <b>Cyclic Amino Compound (Trade Secret)</b>             |  |
| No additional information available                     |  |
| <b>Dipropylene glycol monomethyl ether (34590-94-8)</b> |  |
| <b>USA - ACGIH - Occupational Exposure Limits</b>       |  |
| ACGIH TWA (ppm)   | 100 ppm  |
| ACGIH STEL (ppm)  | 150 ppm  |
| ACGIH chemical category                                 | Skin - potential significant contribution to overall exposure by the cutaneous route |
| <b>USA - OSHA - Occupational Exposure Limits</b>        |  |
| OSHA PEL (TWA) (mg/m <sup>3</sup> )                     | 600 mg/m <sup>3</sup>  |
| OSHA PEL (TWA) (ppm)                                    | 100 ppm  |
| Limit value category (OSHA)                             | prevent or reduce skin absorption  |
| <b>USA - IDLH - Occupational Exposure Limits</b>        |  |
| US IDLH (ppm)   | 600 ppm  |

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| <b>USA - NIOSH - Occupational Exposure Limits</b>              |  |
|--|--|
| NIOSH REL (TWA) (mg/m <sup>3</sup> )                           | 600 mg/m <sup>3</sup>  |
| NIOSH REL TWA [ppm]  | 100 ppm  |
| NIOSH REL (STEL) (mg/m <sup>3</sup> )                          | 900 mg/m <sup>3</sup>  |
| NIOSH REL STEL [ppm]   | 150 ppm  |
| US-NIOSH chemical category                                     | Potential for dermal absorption  |
| <b>Aliphatic Diamine (Trade Secret)</b>                        |  |
| No additional information available                            |  |
| <b>Naphthalene (91-20-3)</b>                                   |  |
| <b>USA - ACGIH - Occupational Exposure Limits</b>              |  |
| ACGIH TWA (ppm)  | 10 ppm   |
| ACGIH chemical category  | Skin - potential significant contribution to overall exposure by the cutaneous route, Confirmed Animal Carcinogen with Unknown Relevance to Humans       |
| <b>USA - ACGIH - Biological Exposure Indices</b>               |  |
| Biological Exposure Indices (BEI)                              | Parameter: 1-Naphthol with hydrolysis plus 2-Naphthol with hydrolysis - Sampling time: end of shift (nonquantitative, nonspecific)                       |
| <b>USA - OSHA - Occupational Exposure Limits</b>               |  |
| OSHA PEL (TWA) (mg/m <sup>3</sup> )                            | 50 mg/m <sup>3</sup>   |
| OSHA PEL (TWA) (ppm)   | 10 ppm   |
| <b>USA - IDLH - Occupational Exposure Limits</b>               |  |
| US IDLH (ppm)  | 250 ppm  |
| <b>USA - NIOSH - Occupational Exposure Limits</b>              |  |
| NIOSH REL (TWA) (mg/m <sup>3</sup> )                           | 50 mg/m <sup>3</sup>   |
| NIOSH REL TWA [ppm]  | 10 ppm   |
| NIOSH REL (STEL) (mg/m <sup>3</sup> )                          | 75 mg/m <sup>3</sup>   |
| NIOSH REL STEL [ppm]   | 15 ppm   |
| <b>Solvent naphtha, petroleum, heavy aromatic (64742-94-5)</b> |  |
| No additional information available                            |  |
| <b>Kerosine(petroleum),hydrodesulfurized (64742-81-0)</b>      |  |
| <b>USA - ACGIH - Occupational Exposure Limits</b>              |  |
| ACGIH TWA (mg/m <sup>3</sup> )                                 | 200 mg/m <sup>3</sup> (application restricted to conditions in which there are negligible aerosol exposures-total hydrocarbon vapor (Kerosene/Jet fuels) |
| ACGIH chemical category  | Skin - potential significant contribution to overall exposure by the cutaneous route, Confirmed Animal Carcinogen with Unknown Relevance to Humans       |
| <b>Hexanoic acid, 2-ethyl-, ethenyl ester (94-04-2)</b>        |  |
| No additional information available                            |  |

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
 Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Wear suitable gloves resistant to chemical penetration

#### Eye protection:

Wear eye/face protection

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |   |
|---|---|
| Physical state                              | : Liquid                                    |
| Appearance                                  | : No data available                         |
| Color                                       | : No data available                         |
| Odor  | : No data available                         |
| Odor threshold                              | : No data available                         |
| pH  | : No data available                         |
| Melting point                               | : No data available                         |
| Freezing point                              | : No data available                         |
| Boiling point                               | : No data available                         |
| Flash point                                 | : 73 °C / 163.4 °F                          |
| Relative evaporation rate (butyl acetate=1) | : No data available                         |
| Flammability (solid, gas)                   | : Flammable                                 |
| Vapor pressure                              | : No data available                         |
| Relative vapor density at 20 °C             | : No data available                         |
| Relative density                            | : 0.94 (24 °C / 75.2 °F)                    |
| Solubility                                  | : No data available                         |
| Partition coefficient n-octanol/water       | : No data available                         |
| Auto-ignition temperature                   | : No data available                         |
| Decomposition temperature                   | : No data available                         |
| Viscosity, kinematic                        | : 11.5 mm <sup>2</sup> /s (24 °C . 75.2 °F) |
| Viscosity, dynamic                          | : No data available                         |
| Explosion limits                            | : No data available                         |
| Explosive properties                        | : No data available                         |
| Oxidizing properties                        | : No data available                         |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions. May form flammable/explosive vapor-air mixture.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Heat. Sources of ignition. Incompatible materials.

### 10.5. Incompatible materials

Strong oxidizers.

### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Oxides of nitrogen. May release flammable gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

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| <b>Dipropylene glycol monomethyl ether (34590-94-8)</b> |            |
|---|------------|
| LD50 oral rat   | 5.35 g/kg  |
| LD50 dermal rabbit                                      | 9500 mg/kg |

| <b>Aliphatic Diamine (Trade Secret)</b> |                       |
|---|-----------------------|
| ATE US (oral)                           | 500 mg/kg body weight |

| <b>Naphthalene (91-20-3)</b> |  |
|------------------------------|--|
| LD50 oral rat                | 1110 mg/kg                                   |
| LD50 dermal rabbit           | 1120 mg/kg                                   |
| LC50 inhalation rat          | > 340 mg/m <sup>3</sup> (Exposure time: 1 h) |

| <b>Solvent naphtha, petroleum, heavy aromatic (64742-94-5)</b> |  |
|--|--|
| LD50 oral rat  | > 5000 mg/kg                                 |
| LD50 dermal rabbit   | > 2 ml/kg                                    |
| LC50 inhalation rat  | > 590 mg/m <sup>3</sup> (Exposure time: 4 h) |

| <b>Kerosine(petroleum),hydrodesulfurized (64742-81-0)</b> |   |
|---|---|
| LD50 oral rat   | > 5000 mg/kg                                  |
| LD50 dermal rabbit  | > 2000 mg/kg                                  |
| LC50 inhalation rat                                       | > 5200 mg/m <sup>3</sup> (Exposure time: 4 h) |

| <b>Hexanoic acid, 2-ethyl-, ethenyl ester (94-04-2)</b> |            |
|---|------------|
| LD50 oral rat   | 4290 mg/kg |

|                                   |                                |
|-----------------------------------|--------------------------------|
| Skin corrosion/irritation         | : Causes skin irritation.      |
| Serious eye damage/irritation     | : Causes serious eye damage.   |
| Respiratory or skin sensitization | : Not classified               |
| Germ cell mutagenicity            | : Not classified               |
| Carcinogenicity                   | : Suspected of causing cancer. |

| <b>Naphthalene (91-20-3)</b>                 |  |
|--|--|
| IARC group                                   | 2B - Possibly carcinogenic to humans                                       |
| National Toxicology Program (NTP) Status     | Evidence of Carcinogenicity, Reasonably anticipated to be Human Carcinogen |
| In OSHA Hazard Communication Carcinogen list | Yes  |

|                        |  |
|------------------------|--|
| Reproductive toxicity  | : Suspected of damaging fertility or the unborn child.               |
| STOT-single exposure   | : Not classified   |
| STOT-repeated exposure | : May cause damage to organs through prolonged or repeated exposure. |

| <b>Naphthalene (91-20-3)</b> |  |
|------------------------------|--|
| STOT-repeated exposure       | May cause damage to organs through prolonged or repeated exposure. |

|                                     |  |
|-------------------------------------|--|
| Aspiration hazard                   | : May be fatal if swallowed and enters airways.  |
| Symptoms/effects after inhalation   | : May cause irritation to the respiratory tract.   |
| Symptoms/effects after skin contact | : Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.  |
| Symptoms/effects after eye contact  | : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns. |
| Symptoms/effects after ingestion    | : May be fatal if swallowed and enters airways. May result in aspiration into the lungs, causing chemical pneumonia.   |
| Chronic symptoms                    | : Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.                           |
| Other information                   | : Likely routes of exposure: ingestion, inhalation, skin and eye.  |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                   |   |
|-------------------|---|
| Ecology - general | : May cause long-term adverse effects in the aquatic environment. |
|-------------------|---|

| <b>Dipropylene glycol monomethyl ether (34590-94-8)</b> |  |
|---|--|
| LC50 fish 1   | > 10000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 1  | 1919 mg/l (Exposure time: 48 h - Species: Daphnia magna)                   |

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| <b>Naphthalene (91-20-3)</b>                                   |  |
|--|--|
| LC50 fish 1  | 5.74 – 6.44 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1   | 2.16 mg/l (Exposure time: 48 h - Species: Daphnia magna)                             |
| LC50 fish 2  | 1.6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])         |
| EC50 Daphnia 2   | 1.96 mg/l (Exposure time: 48 h - Species: Daphnia magna [Flow through])              |
| <b>Solvent naphtha, petroleum, heavy aromatic (64742-94-5)</b> |  |
| LC50 fish 1  | 19 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])                |
| EC50 Daphnia 1   | 0.95 mg/l (Exposure time: 48 h - Species: Daphnia magna)                             |
| LC50 fish 2  | 2.34 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)                       |
| <b>Kerosine(petroleum),hydrodesulfurized (64742-81-0)</b>      |  |
| LC50 fish 1  | 45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])          |
| EC50 Daphnia 1   | 4720 mg/l (Exposure time: 48 h - Species: Den-dronereides heteropoda)                |
| LC50 fish 2  | 1740 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])              |

### 12.2. Persistence and degradability

| <b>Fuel Right Winter Max 2020</b> |                  |
|-----------------------------------|------------------|
| Persistence and degradability     | Not established. |

### 12.3. Bioaccumulative potential

| <b>Fuel Right Winter Max 2020</b>                              |                   |
|--|-------------------|
| Bioaccumulative potential                                      | Not established.  |
| <b>Dipropylene glycol monomethyl ether (34590-94-8)</b>        |                   |
| Partition coefficient n-octanol/water                          | -0.064 (at 20 °C) |
| <b>Naphthalene (91-20-3)</b>                                   |                   |
| BCF fish 1   | 30 – 430          |
| Partition coefficient n-octanol/water                          | 3.6               |
| <b>Solvent naphtha, petroleum, heavy aromatic (64742-94-5)</b> |                   |
| BCF fish 1   | 61 – 159          |
| Partition coefficient n-octanol/water                          | 2.9 – 6.1         |
| <b>Kerosine(petroleum),hydrodesulfurized (64742-81-0)</b>      |                   |
| BCF fish 1   | 61 – 159          |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : No other effects known.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Additional information : Handle empty containers with care because residual vapors are flammable.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not regulated

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

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

|   |                    |
|---|--------------------|
| Poly(ethene-co-vinyl acetate-co-vinyl 2-ethylhexanoate) | CAS-No. 52856-75-4 |
|---|--------------------|

### 15.2. International regulations

No additional information available

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### 15.3. US State regulations

**⚠ WARNING:** This product can expose you to Naphthalene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### SECTION 16: Other information

Issue date : 11/04/2020  
Revision date : 11/04/2020  
Other information : None.  
Prepared by : Nexreg Compliance Inc.  
[www.Nexreg.com](http://www.Nexreg.com)



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