

Product identifier used on the label: FEDERATED 5W20 FS 6/1Q

Product Code: FEN52FPL Revision Date: 10-31-2023 Replaces: 10-07-2023

#### 1. Identification

Product identifier used on the label: FEDERATED 5W20 FS 6/1Q

**Product Code:** FEN52FPL **Other means of identification:** FEDR5279005

Other means of identification:

Synonyms: No data available

Recommended use of the chemical and restrictions on use:

Recommended use: Motor Oil

**Restrictions on use:**Uses other than those described above

Name, address, and telephone number

of the chemical manufacturer,

Highline Warren LLC 4500 Malone Road

importer, or other responsible party:

Todo Maiorio Road

Memphis, TN 38118

**Phone number:** +01 (901) 437-8615

**E-mail address:** sds@highlinewarren.com

**Emergency phone number:** CHEMTREC: +1 (800) 424-9300 International: +01 (703) 527-3887

#### 2. Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200:

GHS Classification: Not classified as hazardous under OSHA

**Hazards not otherwise classified:**No data available

#### 3. Composition/information on ingredients

| Chemical Name   | Common name and synonyms | CAS#       | %         |
|---|--------------------------|------------|-----------|
| Lubricating oils, petroleum, hydrotreated spent                             | No data available        | 64742-58-1 | 30 - 60   |
| Lubricating oils (petroleum),<br>C20-50, hydrotreated neutral oil-<br>based | No data available        | 72623-87-1 | 15 - 40   |
| Petroleum distillates,<br>hydrotreated heavy paraffinic                     | No data available        | 64742-54-7 | 5 - 10    |
| Highly refined synthetic base stocks  | No data available        | 64742-54-7 | 1 - 5     |
| Benzenamine, ar-nonyl-N-  | No data available        | 36878-20-3 | 0.5 - 1.5 |

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| Chemical Name   | Common name and synonyms | CAS#       | %         |
|---|--------------------------|------------|-----------|
| (nonylphenyl)-  |                          |            |           |
| Zinc O,O,O',O'-tetrakis(1,3-<br>dimethylbutyl)<br>bis(phosphorodithioate) | No data available        | 2215-35-2  | 0.5 - 1   |
| Petroleum distillates, solvent-<br>refined heavy paraffinic               | No data available        | 64741-88-4 | 0.1 - 0.5 |
| Distillates, petroleum, solvent-<br>dewaxed heavy paraffinic              | No data available        | 64742-65-0 | 0.1 - 0.5 |

#### 4. First-aid measures

Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:

**Inhalation:** Remove to fresh air. If breathing is difficult, have a trained individual

administer oxygen.

Eye Contact: None expected to be needed, however, use an eye wash to remove a

chemical from your eye regardless of the level of hazard.

**Skin Contact:** Wash with soap and water. Get medical attention if irritation develops or

persists.

**Ingestion:** Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical

attention immediately. Provide medical care provider with this SDS.

Most important symptoms/effects,

acute and delayed:

May cause mild skin irritation.

Indication of immediate medical attention and special treatment

needed, if necessary:

No additional first aid information available.

#### 5. Fire-fighting measures

#### Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media: Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting

fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the

fire. Do not direct a stream of water into the hot burning liquid.

**Unsuitable extinguishing media:** No data available

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Specific hazards arising from the

chemical:

Material may be ignited only if preheated to temperatures above the

high flash point, for example in a fire.

**Hazardous combustion products:** Carbon monoxide, Sulfur containing gases, Nitrogen containing gases,

oxides of phosphorus, Hydrogen sulfide

Special protective equipment and precautions for fire-fighters:

Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment. Use methods for the

surrounding fire.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

No health affects expected from the clean up of this material if contact can be avoided. Follow personal protective equipment recommendations

found in Section 8 of this SDS.

Methods and materials for containment and cleaning up:

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Dispose of according to Federal, State, Local, or Provincial regulations.

Used fluid should be disposed of at a recycling center.

#### 7. Handling and storage

**Precautions for safe handling:** Mildly irritating material. Avoid unnecessary exposure. Follow all

protective equipment recommendations provided in Section 8.

Conditions for safe storage, including

any incompatibilities:

**Safe storage conditions:** Store in a cool dry place. Isolate from incompatible materials.

Materials to Avoid/Chemical

Incompatibility:

Strong oxidizing agents

#### 8. Exposure controls/personal protection

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available:

| Chemical component           | OSHA PEL    | ACGIH TLV   | ACGIH STEL    | IDLH      | US WEEL   |
|------------------------------|-------------|-------------|---------------|-----------|-----------|
| Lubricating oils, petroleum, | 5 mg/m3 TWA | 5 mg/m3 TWA | 10 mg/m3 STEL | No data   | No data   |
| hydrotreated spent           |             |             |               | available | available |

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| Lubricating oils<br>(petroleum), C20-50,<br>hydrotreated neutral oil-<br>based | 5 mg/m3 TWA | 5 mg/m3 TWA | 10 mg/m3 STEL | No data<br>available | No data<br>available |
|--|-------------|-------------|---------------|----------------------|----------------------|
| Petroleum distillates,<br>hydrotreated heavy<br>paraffinic                     | 5 mg/m3 TWA | 5 mg/m3 TWA | 10 mg/m3 STEL | No data<br>available | No data<br>available |
| Highly refined synthetic base stocks   | 5 mg/m3 TWA | 5 mg/m3 TWA | 10 mg/m3 STEL | No data<br>available | No data<br>available |
| Distillates, petroleum,<br>solvent-dewaxed heavy<br>paraffinic                 | 5 mg/m3 TWA | 5 mg/m3 TWA | 10 mg/m3 STEL | No data<br>available | No data<br>available |

**Appropriate engineering controls:** 

Use local exhaust ventilation or other engineering controls to minimize

exposures and maintain operator comfort.

Individual protection measures, such as personal protective equipment:

**Respiratory Protection:** Respiratory protection may be required to avoid overexposure when

handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.

**Respirator Type(s):**None required where adequate ventilation is provided. If airborne

concentrations are above the applicable exposure limits, use

NIOSH/MSHA approved respiratory protection.

**Eye protection:** Wear safety glasses when handling this product if there is a likelihood of

contact with eyes.

**Skin protection:** Where use can result in skin contact, practice good personal hygiene and

wear impervious gloves. Wash hands and other exposed areas with mild

soap and water before eating, drinking, and when leaving work.

Gloves: Nitrile, Neoprene

**General hygiene conditions:** Follow all protective equipment recommendations provided in Section 8.

### 9. Physical and chemical properties

Appearance (physical state, color etc.):

Physical state:LiquidColor:Brown

Odor: Mild Petroleum
Odor Threshold: Not determined

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No data available pH:

Melting point/freezing point:

**Melting Point:** No data available Freezing point: No data available No data available

Initial boiling point and boiling range

(°C):

Flash Point (°C): 228

No data available **Evaporation Rate:** No data available Flammability (solid, gas):

Upper/lower flammability or explosive

limits:

Upper flammability or explosive

limits:

Not established

Lower flammability or explosive

limits:

Not established

Vapor pressure: No data available Vapor density: No data available

0.85 Relative density:

Solubility(ies): Insoluble in water No data available Partition coefficient: n-octanol/water: No data available **Auto-ignition temperature: Decomposition Temperature:** Not determined

46.94 **Viscosity:** 

10. Stability and reactivity

Reactivity: There are no known reactivity hazards associated with this product.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: None expected under standard conditions of storage.

Conditions to avoid (e.g., static discharge, shock, or vibration):

Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition.

Moisture (will lead to product performance degradation).

Incompatible materials: Strong oxidizing agents

Carbon monoxide, Sulfur containing gases, Nitrogen containing gases, Hazardous decomposition products:

oxides of phosphorus, Hydrogen sulfide

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### 11. Toxicological information

Description of the various toxicological (health) effects and the available data used to identify those effects:

Information on the likely routes of exposure (inhalation, ingestion, skin

and eye contact):

Eye contact, Ingestion, Inhalation, Skin contact

Symptoms related to the physical,

chemical and toxicological

characteristics:

May cause mild skin irritation.

Delayed and immediate effects and also chronic effects from short- and long-term exposure:

**Ingestion:** May be harmful if swallowed. Estimated to be 2.0 - 5.0 g/kg.

**Skin Contact:** This material is likely to be slightly irritating to skin based on animal

data. Can cause severe irritation, defatting, and dermatitis. Irritation effects may last for hours or days but will not likely result in permanent

damage.

**Inhalation:** No hazard in normal industrial use. Likely to be practically non-toxic

based on animal data.

**Eye Contact:** This material is likely to be non-irritating to eyes based on animal data.

Can cause minor irritation.

**Sensitization:** Non-hazardous under Respiratory Sensitization category.

Mutagenicity: No data available to indicate product or any components present at

greater than 0.1% is mutagenic or genotoxic.

Carcinogenicity: Not expected to cause cancer. This product meets the IP-346 criteria of

<3% PAH's and is not considered a carcinogen by the International

Agency for Research on Cancer.

**Reproductive toxicity**Not known or reported to cause reproductive or developmental toxicity.

STOT-single exposure:

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

Other information: None known.

**Numerical measures of toxicity (such as acute toxicity estimates)** Based on available data, the classification criteria are not met.

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Is the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA:

| Chemical Name              | OSHA Carcinogen | IARC Carcinogen | NTP Carcinogen |
|----------------------------|-----------------|-----------------|----------------|
| There are no components    |                 |                 |                |
| that are known or reported |                 |                 |                |
| to cause cancer.           |                 |                 |                |

### 12. Ecological information

Ecotoxicity (aquatic and terrestrial, where available):

Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife.

#### **Ecological Toxicity Data:**

| Chemical Name  | CAS#       | Aquatic EC50<br>Crustacea               | Aquatic ERC50<br>Algae               | Aquatic LC50 Fish   |
|--|------------|---|--------------------------------------|---|
| Distillates, petroleum,<br>solvent-dewaxed heavy<br>paraffinic             | 64742-65-0 | EC50 (48h) Daphnia<br>magna > 1000 mg/L | No data available                    | LC50 (96h)<br>Rainbow Trout ><br>5000 mg/L                  |
| Petroleum distillates,<br>solvent-refined heavy<br>paraffinic              | 64741-88-4 | EC50 (48h) Daphnia<br>magna > 1000 mg/L | No data available                    | LC50 (96h)<br>Rainbow Trout ><br>5000 mg/L                  |
| Zinc O,O,O',O'-tetrakis(1,3-<br>dimethylbutyl)<br>bis(phosphorodithioate)  | 2215-35-2  | EC50 (48h) Daphnia<br>magna 4 - 6 mg/L  | Aquatic ERC50<br>(96h) 1 - 5 mg/L    | LC50 (96h) > 100<br>mg/L                                    |
| Benzenamine, ar-nonyl-N-<br>(nonylphenyl)-                                 | 36878-20-3 | EC50 (48h) Daphnia<br>magna > 100 mg/L  | EC50 (72h) Green<br>Algae > 100 mg/L | LC50 (96h) Pimephales promelas (Fathead Minnow) > 1000 mg/L |
| Highly refined synthetic base stocks                                       | 64742-54-7 | EC50 (48h) Daphnia<br>magna > 1000 mg/L | No data available                    | LC50 (96h)<br>Rainbow Trout ><br>5000 mg/L                  |
| Petroleum distillates,<br>hydrotreated heavy<br>paraffinic                 | 64742-54-7 | EC50 (48h) Daphnia<br>magna > 1000 mg/L | No data available                    | LC50 (96h)<br>Rainbow Trout ><br>5000 mg/L                  |
| Lubricating oils (petroleum),<br>C20-50, hydrotreated<br>neutral oil-based | 72623-87-1 | EC50 (48h) Daphnia<br>magna > 1000 mg/L | No data available                    | LC50 (96h)<br>Rainbow Trout ><br>5000 mg/L                  |

**Persistence and degradability:**Biodegrades slowly.

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**Bioaccumulative potential:** Bioconcentration may occur.

**Mobility in soil:** This material is expected to have essentially no mobility in soil. It absorbs

strongly to most soil types.

Other adverse effects (such as hazardous to the ozone layer):

None known.

#### 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated

Spent or discarded material is non-hazardous according to environmental

regulations.

packaging:

**Contaminated packaging:** Recycle containers whenever possible.

### 14. Transport information

Carriage of dangerous goods by road (DOT), rail or inland waterways:

**DOT Basic Description:**Not regulated for road transport

International carriage of dangerous goods by sea (IMDG/IMO):

**UN number**: Not regulated by IMDG

UN Proper shipping name:

Transport hazard class(es):

Packing group, if applicable:

Not applicable

Not applicable

International carriage of dangerous goods by air (IATA):

**UN number:**Not regulated by IATA

UN Proper shipping name:

Transport hazard class(es):

Packing group, if applicable:

Not applicable

Not applicable

Environmental hazards (e.g., Marine

pollutant (Yes/No)):

None.

Transport in bulk (according to Annex II No data available

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of MARPOL 73/78 and the IBC Code):

Special precautions which a user needs to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises:

No data available

### 15. Regulatory information

Safety, health and environmental regulations specific for the product in question:

**TSCA Status:** All components of this material are on the Active US TSCA Inventory or

are exempt.

#### **Regulated Components:**

| Chemical Name          | CAS#         | CERCLA | Sara EHS | Sara 313 | U.S. HAP |  |
|------------------------|--------------|--------|----------|----------|----------|--|
| Lubricating oils,      |              |        |          |          |          |  |
| petroleum,             | 64742-58-1   | N      | N        | N        | N        |  |
| hydrotreated spent     |              |        |          |          |          |  |
| Lubricating oils       |              |        |          |          |          |  |
| (petroleum), C20-50,   | 72623-87-1   | N      | N        | N        | N        |  |
| hydrotreated neutral   | 72023-07-1   | IV     | IN IN    | I N      | IN       |  |
| oil-based              |              |        |          |          |          |  |
| Petroleum distillates, |              |        |          |          |          |  |
| hydrotreated heavy     | 64742-54-7   | N      | N        | N        | N        |  |
| paraffinic             |              |        |          |          |          |  |
| Highly refined         | 64742-54-7   | N      | N        | N        | N        |  |
| synthetic base stocks  | 04742-34-7   | IV     | IV       | IV       | IV       |  |
| Benzenamine, ar-       |              |        |          |          |          |  |
| nonyl-N-               | 36878-20-3   | N      | N        | N        | N        |  |
| (nonylphenyl)-         |              |        |          |          |          |  |
| Zinc 0,0,0',0'-        |              |        |          |          |          |  |
| tetrakis(1,3-          |              |        |          |          |          |  |
| dimethylbutyl)         | 2215-35-2    | N      | N        | N        | N        |  |
| bis(phosphorodithio    |              |        |          |          |          |  |
| ate)                   |              |        |          |          |          |  |
| Distillates,           |              |        |          |          |          |  |
| petroleum, solvent-    | 64742-65-0   | N      | N        | N        | N        |  |
| dewaxed heavy          | 04742-03-0   | IV     | I V      | I IV     | IV       |  |
| paraffinic             |              |        |          |          |          |  |
| Petroleum distillates, | 64741-88-4   | N      | N        | N        | N        |  |
| solvent-refined        | 0-7-7-1-00-4 | IV     | IV       | IV       | IV       |  |

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| heavy paraffinic |  |  |  |
|------------------|--|--|--|
| ricavy pararrinc |  |  |  |

| Chemical Name   | CAS#       | California Prop<br>65 - Cancer | California Prop<br>65 - Dev. Toxicity | California Prop<br>65 - Reprod fem | California Prop<br>65 - Reprod male |
|---|------------|--------------------------------|---------------------------------------|------------------------------------|-------------------------------------|
| Lubricating oils,<br>petroleum,<br>hydrotreated spent                         | 64742-58-1 | N                              | N                                     | N                                  | N                                   |
| Lubricating oils<br>(petroleum), C20-50,<br>hydrotreated neutral<br>oil-based | 72623-87-1 | N                              | N                                     | N                                  | N                                   |
| Petroleum distillates,<br>hydrotreated heavy<br>paraffinic                    | 64742-54-7 | N                              | N                                     | N                                  | N                                   |
| Highly refined synthetic base stocks  | 64742-54-7 | N                              | N                                     | N                                  | N                                   |
| Benzenamine, ar-<br>nonyl-N-<br>(nonylphenyl)-                                | 36878-20-3 | N                              | N                                     | N                                  | N                                   |
| Zinc O,O,O',O'- tetrakis(1,3- dimethylbutyl) bis(phosphorodithio ate)         | 2215-35-2  | N                              | N                                     | N                                  | N                                   |
| Distillates,<br>petroleum, solvent-<br>dewaxed heavy<br>paraffinic            | 64742-65-0 | N                              | N                                     | N                                  | N                                   |
| Petroleum distillates,<br>solvent-refined<br>heavy paraffinic                 | 64741-88-4 | N                              | N                                     | N                                  | N                                   |

### California Prop 65

WARNING: This product can expose you to chemicals including Benzene which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

| Chemical Name     | CAS#       | Massachusetts<br>RTK List | New Jersey<br>RTK List | Pennsylvania<br>RTK List | Rhode<br>Island RTK<br>List | Minnesota<br>Hazardous<br>Substance<br>List |
|-------------------|------------|---------------------------|------------------------|--------------------------|-----------------------------|---|
| Lubricating oils, | 64742-58-1 | N                         | N                      | N                        | N                           | N   |

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| petroleum,             |            |      |      |      |      |    |
|------------------------|------------|------|------|------|------|----|
| hydrotreated spent     |            |      |      |      |      |    |
| Lubricating oils       |            |      |      |      |      |    |
| (petroleum), C20-50,   | 70/00 07 4 | N.I. |      | N.   | N.I. | N. |
| hydrotreated neutral   | 72623-87-1 | N    | N    | N    | N    | N  |
| oil-based              |            |      |      |      |      |    |
| Petroleum distillates, |            |      |      |      |      |    |
| hydrotreated heavy     | 64742-54-7 | N    | N    | N    | N    | N  |
| paraffinic             |            |      |      |      |      |    |
| Highly refined         | (4740 54 7 | N.I. | N.I. | N.I. | N.I. | NI |
| synthetic base stocks  | 64742-54-7 | N    | N    | N    | N    | N  |
| Benzenamine, ar-       |            |      |      |      |      |    |
| nonyl-N-               | 36878-20-3 | N    | N    | N    | Ν    | N  |
| (nonylphenyl)-         |            |      |      |      |      |    |
| Zinc O,O,O',O'-        |            |      |      |      |      |    |
| tetrakis(1,3-          |            |      |      |      |      |    |
| dimethylbutyl)         | 2215-35-2  | N    | N    | N    | N    | N  |
| bis(phosphorodithio    |            |      |      |      |      |    |
| ate)                   |            |      |      |      |      |    |
| Distillates,           |            |      |      |      |      |    |
| petroleum, solvent-    | (4740 (5.0 | N.I. | N.   | N.   | N.I. | N. |
| dewaxed heavy          | 64742-65-0 | N    | N    | N    | N    | N  |
| paraffinic             |            |      |      |      |      |    |
| Petroleum distillates, |            |      |      |      |      |    |
| solvent-refined        | 64741-88-4 | N    | N    | N    | Ν    | N  |
| heavy paraffinic       |            |      |      |      |      |    |

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

SDS Prepared by: EHUGHES
Revision Date: 10-31-2023

Revision Number: 3

**Reason for revision:** Activated by Document Formulation Generation

References: No data available Other Info: No data available

**Disclaimer:** This safety data sheet and the information it contains is offered to you in

good faith as accurate. We have reviewed any information contained in the data sheet which we have received from outside sources and we believe the information to be correct, but cannot guarantee its accuracy

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or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product in a safe manner and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.