

Product identifier used on the label: FEDERATED 0W20 DXS 6/1Q

Product Code: FE0D02P6 Revision Date: 10-31-2023 Replaces: 10-06-2023

#### 1. Identification

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Other means of identification:

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

importer, or other responsible party:

4500 Malone 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), C20-50, hydrotreated neutral oil-	No data available	72623-87-1	45 - 70
based			
Distillates, petroleum, solvent-	No data available	64742-65-0	10 - 30
dewaxed heavy paraffinic			
Petroleum distillates,	No data available	64742-54-7	5 - 10
hydrotreated heavy paraffinic			
Highly refined synthetic base	No data available	64742-54-7	1 - 5
stocks			
Benzenamine, ar-nonyl-N-	No data available	36878-20-3	1 - 5

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Chemical Name	Common name and synonyms	CAS#	%
(nonylphenyl)-			
Distillates, petroleum, hydrotreated light paraffinic	No data available	64742-55-8	1 - 5
Distillates, petroleum, solvent- dewaxed light paraffinic	No data available	64742-56-9	1 - 5
Zinc O,O,O',O'-tetrakis(1,3- dimethylbutyl) bis(phosphorodithioate)	No data available	2215-35-2	0.5 - 1
Petroleum distillates, solvent- refined heavy paraffinic	No data available	64741-88-4	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:** Flush with water. If irritation occurs, get medical attention. Rest eyes for

30 minutes. If redness, burning, blurred vision, or swelling occurs, transport to nearest medical facility for additional treatment.

**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:

Eye irritation. 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

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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

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:

No special spill clean up considerations. Collect and discard in regular

trash.

#### 7. Handling and storage

Precautions for safe handling:

Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Empty containers may retain product residues/ vapors. Use proper bonding and grounding during bulk product transfer. 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

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

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Physical state: Liquid Color: Amber

Odor: Mild Petroleum
Odor Threshold: Not determined
pH: No data available

Melting point/freezing point:

Melting Point:No data availableFreezing point:No data availableInitial boiling point and boiling rangeNo data available

(°C):

Flash Point (°C): 227

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

Upper/lower flammability or explosive

limits:

Upper flammability or explosive

limits:

Not established

Lower flammability or explosive

limits:

Not established

Vapor pressure:No data availableVapor density:No data available

Relative density: 0.85

Solubility(ies):Negligible; 0-1%Partition coefficient: n-octanol/water:No data availableAuto-ignition temperature:No data availableDecomposition Temperature:Not determined

Viscosity: 43.76

#### 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.

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Moisture (will lead to product performance degradation).

**Incompatible materials:** Strong oxidizing agents

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

oxides of phosphorus, Hydrogen sulfide

#### 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:** No hazard in normal industrial use. Estimated to be > 5.0 g/kg.

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

Likely to be non-irritating to skin based on animal data. Can cause minor

skin irritation, defatting, and dermatitis.

**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.

Lubricating oils are generally considered no more than minimally

irritating to the eyes.

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

sensitizer

**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.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

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**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.

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):

Moderate ecological hazard. This product may be dangerous to plants

and/or wildlife.

**Ecological Toxicity Data:** 

Chemical Name	CAS#	Aquatic EC50 Crustacea	Aquatic ERC50 Algae	Aquatic LC50 Fish
Petroleum distillates, solvent-refined heavy paraffinic	64741-88-4	EC50 (48h) Daphnia magna > 1000 mg/L	No data available	LC50 (96h) Rainbow Trout > 5000 mg/L
Zinc O,O,O',O'-tetrakis(1,3- dimethylbutyl) bis(phosphorodithioate)	2215-35-2	EC50 (48h) Daphnia magna 4 - 6 mg/L	Aquatic ERC50 (96h) 1 - 5 mg/L	LC50 (96h) > 100 mg/L
Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9	EC50 (48h) Daphnia magna > 1000 mg/L	No data available	LC50 (96h) Rainbow Trout > 5000 mg/L
Distillates, petroleum, hydrotreated light paraffinic	64742-55-8	EC50 (48h) Daphnia magna > 1000 mg/L	No data available	LC50 (96h) Rainbow Trout > 5000 mg/L
Benzenamine, ar-nonyl-N- (nonylphenyl)-	36878-20-3	EC50 (48h) Daphnia magna > 100 mg/L	EC50 (72h) Green Algae > 100 mg/L	LC50 (96h) Pimephales promelas (Fathead Minnow) > 1000 mg/L
Highly refined synthetic base stocks	64742-54-7	EC50 (48h) Daphnia magna > 1000 mg/L	No data available	LC50 (96h) Rainbow Trout > 5000 mg/L

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Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	EC50 (48h) Daphnia magna > 1000 mg/L	No data available	LC50 (96h) Rainbow Trout > 5000 mg/L
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	EC50 (48h) Daphnia magna > 1000 mg/L	No data available	LC50 (96h) Rainbow Trout > 5000 mg/L
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	EC50 (48h) Daphnia magna > 1000 mg/L	No data available	LC50 (96h) Rainbow Trout > 5000 mg/L

**Persistence and degradability:**Biodegrades slowly.

**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 packaging:

Spent or discarded material is non-hazardous according to environmental

regulations.

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**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

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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

of MARPOL 73/78 and the IBC Code):

No data available

Special precautions which a user needs

to be aware of or needs to comply with in connection with transport or

onveyance 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), C20-50, hydrotreated neutral oil-based	72623-87-1	N	N	N	N
Distillates, petroleum, solvent- dewaxed heavy paraffinic	64742-65-0	N	N	N	N
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	N	N	N	N
Highly refined synthetic base stocks	64742-54-7	N	N	N	N
Benzenamine, ar-	36878-20-3	N	N	N	N

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nonyl-N-					
(nonylphenyl)-					
Distillates,					
petroleum, solvent-	64742-56-9	N	N	N	N
dewaxed light	04/42-30-9	IN IN	IN	IN.	IN
paraffinic					
Distillates,					
petroleum,	64742-55-8	N	N	N	N
hydrotreated light	04/42-33-8	IN IN	IN	IN IN	IN
paraffinic					
Zinc 0,0,0',0'-					
tetrakis(1,3-					
dimethylbutyl)	2215-35-2	N	N	N	N
bis(phosphorodithio					
ate)					
Petroleum distillates,					
solvent-refined	64741-88-4	N	N	N	N
heavy paraffinic					

Chemical Name	CAS#	California Prop 65 - Cancer	California Prop 65 - Dev. Toxicity	California Prop 65 - Reprod fem	California Prop 65 - Reprod male
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	N	N	N	N
Distillates, petroleum, solvent- dewaxed heavy paraffinic	64742-65-0	N	N	N	N
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	N	N	N	N
Highly refined synthetic base stocks	64742-54-7	N	N	N	N
Benzenamine, ar- nonyl-N- (nonylphenyl)-	36878-20-3	N	N	N	N
Distillates, petroleum, solvent- dewaxed light paraffinic	64742-56-9	N	N	N	N

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Distillates, petroleum, hydrotreated light paraffinic	64742-55-8	N	N	N	N
Zinc O,O,O',O'- tetrakis(1,3- dimethylbutyl) bis(phosphorodithio ate)	2215-35-2	N	N	N	N
Petroleum distillates, solvent-refined heavy paraffinic	64741-88-4	N	N	N	Z

#### 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 RTK List	New Jersey RTK List	Pennsylvania RTK List	Rhode Island RTK List	Minnesota Hazardous Substance List
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	N	N	N	N	N
Distillates, petroleum, solvent- dewaxed heavy paraffinic	64742-65-0	N	N	N	N	N
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	N	N	N	N	N
Highly refined synthetic base stocks	64742-54-7	N	N	N	N	N
Benzenamine, ar- nonyl-N- (nonylphenyl)-	36878-20-3	N	N	N	N	N
Distillates, petroleum, solvent- dewaxed light paraffinic	64742-56-9	Υ	N	N	N	N
Distillates,	64742-55-8	Υ	N	N	N	N

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petroleum, hydrotreated light paraffinic						
Zinc O,O,O',O'- tetrakis(1,3- dimethylbutyl) bis(phosphorodithio ate)	2215-35-2	N	N	N	N	N
Petroleum distillates, solvent-refined heavy paraffinic	64741-88-4	N	N	N	N	N

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

SDS Prepared by: CDURSTON

Revision Date: 10-31-2023

Revision Number: 10

**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 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.

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