

# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product Name:** STARFIRE DEXOS 1 GENERATION 2 FULL SYNTHETIC MOTOR OILS 0W20, 5W30

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended use:** Motor Oil  
**Recommended restrictions:** Not applicable

### 1.3. Details of the supplier of the safety data sheet

**Supplier:** PennStar  
6 Horwith Dr.  
Northampton, PA 18067  
**Information Phone:** +01 (484) 275-7990

### 1.4. Emergency telephone number

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

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Not classified under GHS

### 2.2. Label elements

### 2.3. Other hazards

**Hazards not otherwise classified:** Avoid prolonged or repeated contact with used motor oil. Used motor oil has been shown to cause skin cancer in laboratory animals.

Unknown acute toxicity (GHS-US)

## SECTION 3: Composition/information on ingredients

Chemical Name	%	CAS #	GHS Classification
Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).			

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation** Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.  
**Eyes** 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. Seek medical advice if symptoms persist.  
**Ingestion** No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this SDS.

### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms** Not determined

### 4.3. Indication of any immediate medical attention and special treatment needed

**Note to Doctor** Aspiration during swallowing or vomiting may severely damage the lungs. If evacuation of stomach contents is necessary, use method least likely to cause aspiration.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable and Unsuitable

#### 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.

### 5.2. Special hazards arising from the substance or mixture

#### Fire and/or Explosion

#### Hazards

Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.

### 5.3. Advice for firefighters

#### Fire Fighting Methods and

#### Protection

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

#### Hazardous Combustion

Carbon monoxide, Smoke

#### Products

## SECTION 6: Accidental release measures

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

**General Measures:** No data available.

### 6.2. Environmental precautions

Do not flush to sewer.

Avoid runoff into storm sewers and ditches that lead to waterways.

Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.

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

**Methods for 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.

### 6.4. Reference to other sections

Follow all protective equipment recommendations provided in Section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

No special handling instructions due to toxicity.

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

Store in a cool dry place. Isolate from incompatible materials.

#### Incompatible materials

See Section 10.

### 7.3. Specific end use(s)

Motor Oil

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Chemical Name

Oil mist, mineral

Oil mist, mineral

Oil mist, mineral

None.

None.

#### Occupational Exposure Limits

OSHA PEL

ACGIH TLV-TWA

ACGIH STEL

IDLH

OSHA PEL-Skin Notation

#### Value

5 mg/m<sup>3</sup>

5 mg/m<sup>3</sup>

10 mg/m<sup>3</sup>

### 8.2. Exposure controls

#### Engineering Measures

No engineering controls are likely to be required to maintain operator comfort under normal conditions of use.

#### Respiratory Protection

No respiratory protection required under normal conditions of use.

#### 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.

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## 8.2. Exposure controls

### Eye Protection Skin Protection

No special requirements under normal industrial use.

Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

### Gloves

Neoprene, Nitrile

## SECTION 9: Physical and chemical properties

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

Physical State	Liquid
Color	Brown
Odor	Mild
Odor threshold	Not determined
pH	Not determined
Freezing point	Not determined
Boiling Point	Not determined
Flash Point (°C)	204
Flash Point Method	COC
Evaporation Rate	Not determined
Upper Flammable/Explosive Limit, % in air	= 10
Lower Flammable/Explosive Limit, % in air	= 1
Flammability (solid, gas)	Not applicable
Vapor pressure	<0.20
Vapor Density	Not determined
Relative Density	0.85
Solubility in Water	Negligible; 0-1%
Octanol/Water Partition Coefficient	Not determined
Autoignition Temperature	Not determined
Decomposition Temperature	Not determined
Viscosity(°C)	42.59 - 62.09

### 9.2. Other information

Volatile organic compound (VOC) content and percentage of volatiles	0.000000
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## SECTION 10: Stability and reactivity

10.1. Reactivity	No data available.
10.2. Chemical stability	Stable under normal conditions.
10.3. Possibility of hazardous reactions	Hazardous polymerization will not occur.
10.4. Conditions to avoid	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).
10.5. Incompatible materials	Strong oxidizing agents
10.6. Hazardous decomposition products	Carbon monoxide, Smoke

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Ingestion Toxicity	Likely to be practically non-toxic by ingestion based on animal data.
Skin Contact	Likely to be non-irritating to skin based on animal data. No hazard in normal industrial use.
Absorption	Likely to be practically non-toxic based on animal data.
Inhalation Toxicity	No hazard in normal industrial use. Likely to be practically non-toxic based on animal data.

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## SECTION 11: Toxicological information

<b>Eye Contact</b>	This material is likely to be non-irritating to eyes based on animal data. No hazard in normal industrial use.
<b>Sensitization</b>	Non-hazardous under Respiratory Sensitization category.No data available to indicate product or components may be a skin sensitizer.
<b>Mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.
<b>Carcinogenicity</b>	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.
<b>Reproductive and Developmental Toxicity</b>	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
<b>Specific target organ toxicity-Single exposure</b>	Non-hazardous under Specific Target Organ Systemic Toxicity Single Exposure category.
<b>Specific target organ toxicity-Repeated exposure</b>	Non-hazardous under Specific Target Organ Systemic Toxicity Repeated Exposure category.
<b>Long-Term (Chronic) Health Effects</b>	No data available.
<b>Aspiration toxicity</b>	Non-hazardous under Aspiration category.
<b>Other information</b>	No data available.

### Agents Classified by IARC Monographs

Not applicable	IARC Group 1
Not applicable	IARC Group 2A
Not applicable	IARC Group 2B

### National Toxicity Program (NTP) Status

Not applicable	Known Human Carcinogen
Not applicable	Reasonably Anticipated To Be A Human Carcinogen

## SECTION 12: Ecological information

### 12.1. Toxicity

**Acute Aquatic ecotoxicity:** Non-hazardous under Aquatic Acute Environment category.

**Chronic Aquatic ecotoxicity:** Non-hazardous under Aquatic Chronic Environment category.

### 12.2. Persistence and degradability

Biodegrades slowly.

### 12.3. Bioaccumulative potential

Bioconcentration may occur.

### 12.4. Mobility in soil

This material is expected to have essentially no mobility in soil. It absorbs strongly to most soil types.

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

Not determined

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal Methods

Dispose of according to Federal, State, Local, or Provincial regulations. Recycle used oil.

#### Waste Disposal Code(s)

#### Waste Description for Spent Product

Spent or discarded material is non-hazardous according to environmental regulations.

#### Contaminated packaging:

Recycle containers whenever possible.

## SECTION 14: Transport information

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## SECTION 14: Transport information

<b>DOT</b>	<b>Proper Shipping Name:</b> No data available.
	<b>UN Number:</b> Not regulated for road transport
	<b>Hazard Class:</b> No data available.
	<b>Packing Group:</b> No data available.
<b>DOT Basic Description</b>	Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO).
<b>IMDG</b>	<b>Proper Shipping Name:</b> No data available.
	<b>UN Number:</b> No data available.
	<b>Hazard Class:</b> No data available.
	<b>Packing Group:</b> No data available.
	<b>Marine Pollutant:</b> No data available.
<b>IATA</b>	<b>Proper Shipping Name:</b> No data available.
	<b>UN Number:</b> No data available.
	<b>Hazard Class:</b> No data available.
	<b>Packing Group:</b> No data available.

## SECTION 15: Regulatory information

### Chemical Inventories

**U.S. State Restrictions:** Not applicable  
**WHMIS:** Uncontrolled product according to WHMIS classification criteria.

<b>Chemical Name</b>	<b>Regulation</b>	<b>CAS #</b>	<b>%</b>
None.	CERCLA		
None.	SARA 313		
None.	SARA EHS		
None.	TSCA 12b		

### U.S. State Regulations

<b>Chemical Name</b>	<b>Regulation</b>	<b>CAS #</b>	<b>%</b>
None.	California Prop 65- Cancer		
None.	California Prop 65- Dev. Toxicity		
None.	California Prop 65- Reprod -fem		
None.	California Prop 65- Reprod-male		
None.	Massachusetts RTK List		
None.	New Jersey RTK List		
None.	Pennsylvania RTK List		
None.	Rhode Island RTK List		
None.	Minnesota Hazardous Substance List		

### HMIS Ratings:

Health: 0  
Fire: 1  
Reactivity: 0  
PPE: B

### NFPA Ratings:

Health: 0  
Fire: 1  
Reactivity: 0

KEY: 0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Extreme

## SECTION 16: Other information

**Revision Date** 01/02/2018 12:30 PM

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## SECTION 16: Other information

**Supersedes:** 2/18/2016

**References** No data available.

**Disclaimer**

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