



# FVP ALL SEASON ISO 32 MULTI-VISCOSITY ANTI-WEAR HYDRAULIC FLUID

## 2 GAL.

### Safety Data Sheet

#### Section 1. Identification

Factory Motor Parts 1380 Corporate Center Curve, Suite 200 Eagan, MN 55121 866-387-3343	SDS Information	Transportation Emergency (Infotrac)	1-800-424-9300 1-800-535-5053
Product name	All Season ISO 32 Multi-Viscosity Hydraulic Fluid	SDS no.	1019-867173.HL
Product Number	FVP5W20HYD-2GAL	Revision date	07/10/18
Chemical name	Lubricating oil. Hydrocarbon.	Chemical formula	Mixture
Chemical family			

Relevant identified uses of the substance or mixture and uses advised against

Lubricant.

#### Section 2. Hazards identification

OSHAIHCS status	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	
GHS label elements	N
Signal word	o
Hazard statements	t
Precautionary statements	c
General	l
Prevention Response Storage Disposal	a
Hazards not otherwise classified (HNOC)	s
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No known significant effects or critical hazards.

Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

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Hazardous Material Information System (U.S.A.)

Health:  
Health:

0  
0

Flammability :  
Flammability :

Physical hazards : 0  
Instability : 0

National Fire Protection Association (U.S.A.)

### Section 3. Composition/information on ingredients

Substance/mixture  
Chemical name  
Other means of identification

Mixture  
Lubricating oil.  
Industrial hydraulic fluid.

Ingredient name	%	CAS number
2,6-Di-tert-butylphenol	0.1 - 1	128-39-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

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**Section 4. First aid measures**

Description of necessary first aid measures

Eye contact

If material comes in contact with the eyes, immediately wash the eyes with large amounts of water for 15 minutes, occasionally lifting the lower and upper lids. Get medical attention.

Inhalation

If person breathes in large amounts of material, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep the person warm and at rest. Get medical attention as soon as possible.

Skin contact

If the material comes in contact with the skin, wash the contaminated skin with soap and water promptly. If the material penetrates through clothing, remove the clothing and wash the skin with soap and water promptly. If irritation persists after washing, get medical attention immediately.

Ingestion

If material has been swallowed, do not induce vomiting. Get medical attention immediately.

Most important symptoms/effects acute and delayed

Potential acute health effects

Eye contact Inhalation Skin contact Ingestion

No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact Inhalation Skin contact

No known significant effects or critical hazards.

Ingestion

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Adverse symptoms may include the following: pain or irritation, watering, redness. Adverse symptoms may include the following: respiratory tract irritation, coughing. Adverse symptoms may include the following: irritation, redness. No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed if necessary

Notes to physician

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

No specific treatment.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing media

Use water spray to cool fire exposed surfaces and to protect personnel. Foam, dry chemical or water spray (fog) to extinguish fire.

Unsuitable extinguishing media

None known.

Specific hazards arising from the chemical Hazardous thermal decomposition products Special protective actions for fire-fighters

Toxic fumes gases or

vapors may evolve on

Special protective equipment for fire-fighters

burning. No specific data.

When fighting fires wear full turnout gear and self contained breathing apparatus. Water may

cause splattering.

Material floats on

water. Not

applicable.

## Section 6. Accidental release measures

### Personal precautions protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary and unprotected personnel from entering. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

### Methods and materials for containment and cleaning up

Spill

Contain with dikes or absorbent to prevent migration to sewers/streams. Take up small spill with dry chemical absorbent; large spills may require pump or vacuum prior to absorbent. May require excavation of severely contaminated soil.

## Section 7. Handling and storage

### Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

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Conditions for safe storage, including any incompatibilities

Do not store above the following temperature: 113°C (235.4°F).  
Odorous and toxic fumes may form from the decomposition of this product if stored at excessive temperatures for extended periods of time. Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Appropriate engineering controls

Use only with adequate ventilation.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

#### Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Recommended: Splash goggles and a face shield, where splash hazard exists.

Skin protection Hand protection Body protection

Other skin protection

Respiratory protection

4- 8  
hours  
(breakthrough time):  
Nitrile gloves.  
Recommended:  
Long sleeved coveralls

Recommended:  
Impervious boots.

If ventilation is inadequate, use a NIOSH-certified respirator with an organic vapor cartridge and P95 particulate filter.

### Section 9. Physical and chemical properties

Appearance Physical state

Odor threshold pH

Color

Melting point

Flash point

Odor

Boiling point

Flammability

Lower and upper explosive (flammable) limits

Liquid.	Relative density	Evaporation rate	0.84 to 0.88
Amber.	Solubility		<1 (Butyl acetate = 1)
Mild.	Solubility in water		Insoluble in the following materials: cold water and hot water.
Not available.	Partition coefficient: n octanol/water		Insoluble
Not available.	Auto-ignition temperature		Not available.
Not available.	Decomposition temperature		
Closed cup: >200°C (>392°F)	SADT	Viscosity	N
Not available.	Vapor pressure		o
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			Not available.
			<0.13 kPa (<1
			mm Hg) (68°F)
			Not available.

## Section 10. Stability and reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	
Incompatible materials	No specific data.
Hazardous decomposition products	Reactive or incompatible with the following materials: oxidizing materials. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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**Section 11. Toxicological information**

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2,6-Di-tert-butylphenol	LD50 Dermal	Rabbit	>10 g/kg	-
	LD50 Oral	Rat	1320 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,6-Di-tert-butylphenol	Skin - Moderate irritant	Rat	-	0.5 mL	-

Sensitization Skin Respiratory

Mutagenicity

There is no data available. Carcinogenicity

There is no data available. Reproductive toxicity There is no data available. Teratogenicity

There is no data available.

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Specific target organ toxicity (single exposure) There

is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely routes of exposure

Dermal contact. Eye contact. Inhalation. Ingestion.

## Section 12. Ecological information

There is no data available.

Persistence and degradability

There is no data available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2,6-Di-tert-butylphenol	4.5	-	high

Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>)

Other adverse effects

There is no data available.

No known significant effects or critical hazards.

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**Section 13. Disposal considerations**

Disposal methods Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

**Section 14. Transport information**

DOT IDENTIFICATION NUMBER Not applicable. DOT proper shipping name Not applicable.  
 DOT Hazard Class(es) Not applicable. PG Not applicable. DOT EMER. RESPONSE GUIDE NO. Not applicable

**Section 15. Regulatory information**

U.S. Federal regulations TSCA 4(a) final test rules: 2-Butenedioic acid (E)-, di-C8-18-alkyl esters  
 TSCA 8(a) PAIR: 2-Butenedioic acid (E)-, di-C8-18-alkyl esters  
 TSCA 8(a) CDR Exempt/Partial exemption: Not determined  
 United States inventory (TSCA 8b): All components are listed or exempted.  
 Clean Water Act (CWA) 307: Zinc O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate); Toluene  
 Clean Water Act (CWA) 311: Toluene; Vinyl acetate

Clean Air Act Section 602 Class I Substances : Not listed  
 Clean Air Act Section 602 Class II Substances : Not listed  
 Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Not listed  
 DEA List I Chemicals (Precursor Chemicals) DEA List II Chemicals (Essential Chemicals) Not listed  
 Not listed  
 Not listed

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA302TPQ		SARA304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Vinyl acetate	0-0.1	Yes.	1000	129	5000	644.8

SARA 304 RQ SARA 311/312

69444444.4 lbs / 31527777.8 kg [96846020.4 gal / 366602067.2 L]

Hazard classifications

: Not applicable.

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
2,6-Di-tert-butylphenol	0.1 - 1	No.	No.	No.	Yes.	No.

SARA 313

This product (does/not) contain toxic chemicals subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

Product name	CAS number	%
Zinc compounds	Mixture	0.032 as Zinc

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

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The following components are listed: Distillates (petroleum),  
hydrotreated heavy paraffinic

None of the components are listed.

WARNING: This product contains less than 0.1% of a  
chemical known to the State of California to cause cancer.

WARNING: This product contains less than 1% of a chemical known to  
the State of California to cause birth  
defects or other reproductive harm.

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Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Toluene	No.	Yes.	No.	7000 IJg/day (ingestion) 13000 IJg/day (inhalation)
Vinyl acetate	Yes.	No.	No.	No.
Ethyl acrylate	Yes.	No.	No.	No.

**Section 16. Other information****Revision date****02/15/2017****Supersedes****01/06/2017****Revised Section(s)****1, Product name****Prepared by****KMK Regulatory Services Inc.**Notice to reader

THE INFORMATION CONTAINED IN THIS SDS RELATES ONLY TO THE SPECIFIC MATERIAL IDENTIFIED. IT DOES NOT COVER USE OF THAT MATERIAL IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY PARTICULAR PROCESS. IN COMPLIANCE WITH 29 C.F.R. 1910.1200(g), CHS HAS PREPARED THIS SDS IN SEGMENTS, WITH THE INTENT THAT THOSE SEGMENTS BE READ TOGETHER AS A WHOLE WITHOUT TEXTUAL OMISSIONS OR ALTERATIONS. CHS BELIEVES THE INFORMATION CONTAINED HEREIN TO BE ACCURATE, BUT MAKES NO REPRESENTATION, GUARANTEE, OR WARRANTY, EXPRESS OR IMPLIED, ABOUT THE ACCURACY, RELIABILITY, OR COMPLETENESS OF THE INFORMATION OR ABOUT THE FITNESS OF CONTENTS HEREIN FOR EITHER GENERAL OR PARTICULAR PURPOSES. PERSONS REVIEWING THIS SDS SHOULD MAKE THEIR OWN DETERMINATION AS TO THE MATERIAL'S SUITABILITY AND COMPLETENESS FOR USE IN THEIR PARTICULAR APPLICATIONS.