



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

## SAFETY DATA SHEET

### Section 1. Identification

Factory Motor Parts  
1380 Corporate Center Curve, #200  
Eagan, MN 55121  
866-387-3343

Emergency Contact: Infotrac 1-800-535-5053

Product name

Part #

FVP All Season ISO 32 Multi-Viscosity Anti-wear Hydraulic Fluid  
FVP5W20HYD-2GAL

SDS no. 1019-867173.HL

Common name

Industrial hydraulic fluid

Revision date

07/12/18

Chemical name

Chemical family

Lubricating oil. Hydrocarbon.

Chemical formula

Mixture

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

Lubricant.

### Section 2. Hazards identification

OSHAHCS status

Classification of the substance or mixture

GHS label elements

Signal word

Hazard statements

Precautionary statements

General

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Prevention Response Storage Disposal

Hazards not otherwise classified  
(HNOC)

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.

Not classified.

No signal word.

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.

Not applicable. Not applicable. Not applicable. Not

applicable. None known.

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

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

Health:

Health:

0 Flammability :

0 Flammability :

Physical hazards : 0

Instability : 0

### 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

Inhalation

Skin contact

Ingestion

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.  
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.  
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.  
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

#### Over-exposure signs/symptoms

Eye contact Inhalation Skin contact  
Ingestion

No known significant effects or critical hazards. No known significant effects or critical hazards. 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

Unsuitable extinguishing media

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

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Special protective equipment for fire-fighters

Use water spray to cool fire exposed surfaces and to protect personnel. Foam, dry chemical or water spray (fog) to extinguish fire. None known.

Toxic fumes gases or vapors may evolve on 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.
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## Section 7. Handling and storage

### Precautions for safe handling

Protective measures

Advice on general occupational hygiene

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.

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

Environmental exposure controls

Individual protection measures

Hygiene measures

Eye/face protection

Skin protection Hand protection Body protection

Other skin protection

Respiratory protection

Use only with adequate ventilation.

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

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.

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

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 Color

Odor

Odor threshold pH

Melting point

Boiling point

Flash point

Flammability

Lower and upper explosive (flammable) limits

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Liquid. Amber.

Mild.

Not available. Not available. Not available.

Not available.

Closed cup: >200°C (>392°F) Not available.

Not available.

Relative density Evaporation rate Solubility

Solubility in water

Partition coefficient: n  
octanol/water

Auto-ignition temperature

Decomposition temperature

SADT Viscosity

Vapor pressure

Vapor density

0.84 to 0.88

<1 (Butyl acetate = 1)

Insoluble in the following materials: cold water and hot water.

Insoluble

Not available.



Not available. Not available. Not available.

<0.13 kPa (<1 mm Hg) (68°F) Not available.

## Section 10. Stability and reactivity

Reactivity

Chemical stability

Possibility of hazardous reactions

Conditions to avoid

Incompatible materials

Hazardous decomposition products

No specific test data related to reactivity available for this product or its ingredients. The product is stable.

Under normal conditions of storage and use, hazardous reactions will not occur.

No specific data.

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.

There is no data available. There is no data available.

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.

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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',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)

### SARA 302/304

Composition/information on ingredients

DEA List I Chemicals (Precursor Chemicals) DEA List II Chemicals (Essential Chemicals) Not listed

Not listed

Not listed

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

Hazard classifications

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

: 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.

State regulations Massachusetts New York

New Jersey Pennsylvania California Prop. 65

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None of the components are listed. None of the components are listed.

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

Revised Section(s)

Notice to reader

02/15/2017

1, Product name

Supersedes

01/06/201

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.

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