Conforms to HazCom 2012/United States



SAFETY DATA SHEET

288 HTC Extreme Performance with DYNAVIS® ISO 15, 22, 32, 46

Section 1. Identification

GHS product identifier

Other means of Identification

: 288 HTC Extreme Performance with DYNAVIS® ISO 15, 22, 32, 46

: Not available.

Product type : Liquid

Identified uses : Multi-grade anti-wear hydraulic fluid.

Supplier's details : Schaeffer Mfg. Company

102 Barton Street

Saint Louis, Missouri 63104

Tel: 314-865-4100 Fax: 314-865-4107

Toll Free: 1-800-325-9962 E-Mail: safety@schaefferoil.com Web: www.schaefferoil.com

Emergency Phone Number: +1 314 865-4105 (24-hour response number)

(with hours of operation)

Section 2. Hazards identification

OSHA/HCS 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 Not classified.

GHS label elements

Signal word : No signal word.

Hazard statements : No known or significant effects or critical hazards.

Precautionary

statements

Prevention : Not applicable. Not applicable. Response **Storage** Not applicable. **Disposal** Not applicable. **Hazards not otherwise** None known.

classified

Section 3. Composition/information on ingredients

Substance/mixture: Mixture

Ingredient Name	%	CAS number
Base Oil(s)(*)	60-100	See below.
1-Decene, homopolymer, hydrogenated	60-100	68037-01-4
White mineral oil (petroleum)	1-5	8042-47-5
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.

Base oil(s) contained in this material may be described by one or more of the following CAS Nos.: 64742-47-8, 64742-53-6, 72623-86-0.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get immediate medical attention if irritation occurs.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact

: Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

Ingestion

: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed Potential acute health effects

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.

Over-exposure signs/symptons

Eye contact: No known significant effects or critical hazards.Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

Section 4. First aid measures

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 an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical

: No specific fire or explosion hazard.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide

Special protective actions for fire-fighters

: No special measures are required.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also information in "For non-emergency personnel."

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. U.S.A. regulations may require reporting spills of this material that could reach any surface waters. Report spills to all applicable Federal, State, Provincial and local authorities and/or the United States National Response Center at (800) 424-8802 as appropriate or required.

Section 6. Accidental release measures

Methods and materials for containment and clean up

Small spill

: Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8).

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. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Base oil(s)(*)	NIOSH REL (United States, 10/2013)
	TWA: 5 mg/m ³ 10 hours. Form: Mist
	STEL: 10 mg/m ³ 15 minutes. Form: Mist
	ACGIH TLV (United States)
	TWA: 5 mg/m ³ . Form: Oil mist
	STEL: 10 mg/m ³ . Form: Oil mist
	OSHA PEL (United States)
	TWA: 5 mg/m ³ . Form: Oil mist
White mineral oil (Petroleum)	ACGIH TWA (United States, 4/2014)
	TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction.
	NIOSH REL (United States, 10/2013)
	TWA: 5 mg/m ³ 10 hours. Form: Mist
	STEL: 10 mg/m ³ 15 minutes. Form: Mist
	OSHA PEL (United States, 2/2013)
	TWA: 5 mg/m ³ 8 hours.

Section 8. Exposure controls and personal protection

Appropriate engineering controls

Environmental exposure controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : 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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Wear eye protection such as safety glasses, chemical goggles, or face shields if engineering controls or work practices are not adequate to prevent eye contact.

Skin protection

Hand protection Body protection : Use nitrile or oil resistant gloves.

: Personal protective clothing such as gloves, aprons, boots and complete facial protection should be selected based on the task being performed and the risks involved. Users should determine acceptable performance characteristics of protective clothing. Consider physical requirements and other substances present when selecting protective clothing.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.

Respiratory protection

: If a risk assessment indicates that respiratory protection is required, use a properly fitted, air-purifying or supplied air respirator that complies with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid. [Clear.]

Color : Blue.
Odor : Petroleum.
Odor threshold : Not available.
pH : Not applicable.
Melting point/Dropping point : Not available.
Boiling pint : >315°C (>600°F)

Flash point : Open cup: 199°-227°C (390.2°-440.6°F) [Cleveland.]

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive (flammable) : Not available.

limits

Section 9. Physical and chemical properties

Vapor pressure: Not available.Vapor density: >1 [Air = 1]Relative density: 0.88

Solubility : Negligible in water.

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Kinematic (40°C): 13.5 to 110 cSt

Volatility: Not available.VOC content: Not available.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its

ingredients.

Chemical stability : This material is considered stable under normal ambient and anticipated

storage and handling conditions of temperature and pressure.

Possibility of hazardous: May react with oxygen and strong oxidizing agents, such as chlorates,

peroxides, etc.

Conditions to avoid : No specific data.

Incompatible materials: Reactive or incompatible with the following materials: Strong acids, bases

and oxidizers.

Hazardous decomposition: Under normal conditions of storage and use, hazardous decomposition

products products should not be produced.

Section 11. Toxicological information

Information on toxicological effects Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrotreated	LC50 Inhalation Vapor	Rat	2180 mg/m ³	4 hours
light naphthenic	LD50 Oral	Rat	>5000 mg/kg	-
White mineral oil (petroleum)	LD50 Oral	Rat	>5000 mg/kg	-
2,6-di-tert-Butylphenol	LD50 Dermal	Rabbit	>10g/kg	-
	LD50 Oral	Rat	1320 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Distillates (petroleum),	Skin – Moderate irritant	Rabbit	-	24 hours 0.5 mL	-
hydrotreated light naphthenic					
2,6-di-tert-Butylphenol	Skin – Moderate irritant	Rat	-	0.5 mL	-

Sensitization

There is no data available

Section 11. Toxicological information

Carcinogenicity Classification

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
White mineral oil (petroleum)	-	-	-	A4	-	-

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

Name	Result
1-Decene, homopolymer, hydrogenated	ASPIRATION HAZARD – Category 1
Distillates (petroleum), hydrotreated light naphthenic	ASPIRATION HAZARD – Category 1
Distillates (petroldum), hydtrotreated light	ASPIRATION HAZARD – Category 1
Lubricating oils (petroleum, C15-30, hydrotreated neutral oil-based	ASPIRATION HAZARD – Category 1
White mineral oil (petroleum)	ASPIRATION HAZARD – Category 1

Information on the likely routes of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact: No known significant effects or critical hazards.Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No known significant effects or critical hazards.Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

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

Short term exposure

Potential immediate : No known significant effects or critical hazards.

effects

Potential delayed effects: No known significant effects or critical hazards.

Long term exposure

Potential immediate : No known significant effects or critical hazards.

effects

Potential delayed effects: No known significant effects or critical hazards.

Section 11. Toxicological information

Potential chronic health effects

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates There is no data available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Distillates (petroleum),	EC50 > 3200 mg/L WAF	Algae – Skeletonema costatum	72 hours
hydrotreated light naphthenic	LC50 > 3200 mg/L WAF	Crustaceans – Acartia tonsa	48 hours
	LC50 > 1800 mg/L WAF	Fish – Scophthalmus maximus –Embryo	96 hours
	NOEC 3200 mg/L WAF	Algae – Skeletonema costatum	72 hours
	NOEC 3200 mg/L WAF	Crustaceans – Acartia tonsa	48 hours
	NOEC 1800 mg/L WAF	Fish – Scophthalmus maximus – Embryo	96 hours
Distillates (petroleum), hydrotreated light	Acute LC 50 2200µg/L Fresh water	Fish – Lepomis macrochirus	4 days

Persistence and degradability

There is no data available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential			
1-Decene, homopolymer, hydrogenated	>6.5	-	High			
White mineral oil (petroleum)	>6	-	High			
2,6-di-tert-Butylphenol	4.5	-	High			

Mobility in soil

Soil/water partition coefficient (K_{oc})

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

DOT Classification : Not regulated. : Not regulated. **IMDG** IATA/ICAO : Not regulated. **AERG** : Not applicable

Special precautions for user : Transport within user's premises: always transport in closed

containers that are upright and secure. Ensure that persons

transporting the product know what to do in the event of an accident

or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

Section 15. Regulatory information

U.S. Federal regulation : TSCA 8(a) PAIR: Diphenylamine; Naphthalene

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: Toluene, Naphthalene Clean Water Act (CWA) 311: Toluene, Naphthalene

Clean Air Act Section 112 : Not listed. (b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 : Not listed.

Class I Substances

Clean Air Act Section 602 : Not listed.

Class li Substances

DEA List I Chemicals

(Precursor Chemicals)

: Not listed.

: Not listed.

DEA List II Chemicals

(Essential Chemicals)

SARA 302/304

Composition/information on ingredients No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Distillates (petroleum), hydtrotreted light	1-5	Yes	No	No	No	No
2,6-di-tert-Butylphenol	0.1-1	No	No	No	Yes	No

Section 15. Regulatory information

SARA 313 No products were found.

State regulations

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

light naphthenic; Distillates (petroleum), hydrotreated light naphthenic

New York : None of the components are listed.

New Jersey : The following components are listed: White mineral oil (petroleum);

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based;

Distillates (petroleum), hydrotreated light naphthenic; Distillates (petroleum),

hydrotreated light naphthenic

Pennsylvania: None of the components are listed.

California Prop. 65

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.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Toluene	No	Yes	No	7000 μg/day (ingestion) 13000 μ/day (inhalation)
Naphthalene	Yes	No	Yes	No
Ethyl acrylate	Yes	No	No	No

Section 16. Other information

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

Health: 1 Flammability: 1 Physical hazards: 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller.

The customer is responsible for determining the PPE code for this material.

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

Health: 1 Flammability: 1 Instability: 0

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Section 16. Other information

US Tariff Heading Number: 2710.19.3020 **Schedule B Code**: 2710.19.3020

History

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Version : 1

Prepared by : KMK Regulatory Services Inc.

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