



# SAFETY DATA SHEET

Issuing Date 05-Dec-2023

Revision date 05-Dec-2023

Revision Number 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier** BOSS Syntec 46 All Season Hydraulic Oil

**Other means of identification**

**Product Code(s)** GHSRBS-015

**Synonyms** None

**Recommended use of the chemical and restrictions on use**

**Recommended use** Synthetic VHVI Hydraulic Fluid

**Restrictions on use** No information available.

**Details of the supplier of the safety data sheet**

**Initial supplier identifier**

BOSS Lubricants

**Manufacturer Address**

6303 30 ST SE Calgary, AB T2C 1R4

**Emergency telephone number**

**Initial supplier phone number** (800) 844-9457

**Emergency Telephone** Chemtrec 1-800-424-9300

## 2. Hazard(s) identification

**Classification**

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS) Not a hazardous substance or mixture according to Canada's Hazardous Product Regulations.

**Label elements**

None

**Hazard statements**

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS). Not a hazardous substance or mixture according to Canada's Hazardous Product Regulations.

**Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

**Other information**



### 3. Composition/information on ingredients

#### Substance

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based -IP346<3%	72623-87-1	40 - 60	-	
1-Decene, homopolymer, hydrogenated	68037-01-4	20 - 30	-	
Zinc alkyl dithiophosphate	Confidential	0.1 - <1	-	

### 4. First aid measures

#### Description of first aid measures

Inhalation	Assure fresh air breathing. Allow the victim to rest. In case of breathing difficulties administer oxygen. In all cases of doubt, or when symptoms persist, seek medical advice.
Skin contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.
Eye contact	In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Obtain medical attention if pain, blinking or redness persist.
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Never give anything by mouth to an unconscious person.

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

**Symptoms** Prolonged contact may cause redness and irritation.

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

**Note to physicians** Treat symptomatically.

### 5. Firefighting measures

**Suitable Extinguishing Media** Carbon dioxide (CO2). Foam. Dry chemical. Water spray or fog.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

**Specific hazards arising from the chemical** No information available.

#### Explosion data

**Sensitivity to mechanical impact** None.

Sensitivity to static discharge None.

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Use personal protective equipment as required. See section 8 for more information.

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

**Methods for containment** Stop leak if you can do it without risk. Keep out of drains, sewers, ditches and waterways. Ventilate the area. Avoid breathing vapors or mists.

**Methods for cleaning up** Cover liquid spill with sand, earth, or other non-combustible absorbent material. Prevent product from entering drains.

## 7. Handling and storage

### Precautions for safe handling

**Advice on safe handling** Avoid breathing dust/fume/gas/mist/vapors/spray. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use spark-proof tools and explosion-proof equipment. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation.

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

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

## 8. Exposure controls/personal protection

### Control parameters

**Exposure Limits** Mineral oil, as a mist, is regulated by Provincial authorities and range from 0.2 mg/m<sup>3</sup> (British Columbia) to 5 mg/m<sup>3</sup> (Alberta, Manitoba, Ontario, Quebec, Saskatchewan). Consult Provincial Occupational Health & Safety authority's websites for details.

### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles). Avoid contact with eyes.

**Hand protection** Wear suitable gloves.

**Skin and body protection** No special protective equipment required.

<b>Respiratory protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid
<b>Appearance</b>	viscous
<b>Color</b>	Clear to light amber.
<b>Odor</b>	Mild petroleum odor
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	No data available	None known
<b>Melting point / freezing point</b>	No data available	None known
<b>Boiling point / boiling range</b>	No data available	None known
<b>Flash point</b>	202 °C / 395 °F	ASTM D92
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Vapor pressure</b>	No data available	None known
<b>Vapor density</b>	> 10 mm Hg at 20°C	ASTM D2879
<b>Relative density</b>	0.868 g/cm <sup>3</sup> at 15.6 °C	ASTM D1298
<b>Water solubility</b>	Water: < 0.1 % insoluble	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient</b>	No data available	None known
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	45 cSt at 40 °C	ASTM D445
<b>Dynamic viscosity</b>	No data available	None known

### Other information

<b>Explosive properties</b>	No information available.
<b>Oxidizing properties</b>	No information available.
<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Liquid Density</b>	No information available
<b>Bulk density</b>	No information available

## 10. Stability and reactivity

### Reactivity

<b>Reactivity</b>	None under normal conditions.
<b>Chemical stability</b>	Stable at normal temperatures and pressures.

<b>Possibility of hazardous reactions</b>	Hazardous polymerization will not occur.
<b>Conditions to avoid</b>	Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks, heat, or other potential ignition sources.
<b>Incompatible materials</b>	Strong acid. Strong bases. oxidizing agents.
<b>Hazardous decomposition products</b>	Carbon monoxide. Carbon dioxide. Unburned hydrocarbons. Combustion products may include carbon oxides and irritating fumes.

## 11. Toxicological information

### Information on toxicological effects

#### 1-Decene, homopolymer, hydrogenated (68037-01-4)

LD50 oral rat > 5000 mg/kg

LD50 dermal rat > 2000 mg/kg

Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based -IP346<3% (72623-87-1)

LD50 oral rat > 5000 mg/kg

LD50 dermal rabbit > 2000 mg/kg

LC50 inhalation rat (mg/l) > 5 mg/l/4h

ATE (dust, mist) > 5 mg/l/4h

Likely routes of exposure	Ingestion, Inhalation, Skin and Eye contact.
Acute toxicity (oral)	May be harmful if swallowed in large quantities.
Acute toxicity (dermal)	Based on available data, the classification criteria are not met.
Acute toxicity (inhalation)	Not classified.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

## 12. Ecological information

Ecology – general May be toxic to aquatic life.

### Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based -IP346<3% (72623-87-1)

LC50 fishes 1 > 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)

EC50 Daphnia 1 > 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

**Persistence and degradability** No information available.

<b>Bioaccumulation</b>	No information available.
<b>Other adverse effects</b>	No information available.

### 13. Disposal considerations

#### Waste treatment methods

Sewage disposal recommendations	Prevent entry to sewers and public waters. An environmental fate analysis is not available for this specific product. Plants and animals may experience harmful or fatal effects when coated with petroleum products. Petroleum-based (mineral) lubricating oils normally will float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway may be sufficient to cause a fish kill or create an anaerobic environment.
Waste disposal recommendations	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Additional information	Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks, heat, or other potential ignition sources. Used oil, may contain harmful impurities. Used motor oil was associated with cancer in lifetime skin painting studies with laboratory animals.
Ecology - waste materials	Avoid release to the environment. Hazardous waste due to toxicity.

### 14. Transport information

<u>Transport Canada</u>	Not regulated.
<u>TDG</u>	Not regulated.
<u>DOT</u>	Not regulated.

### 15. Regulatory information

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Regulations

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable.

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

#### **1-Decene, homopolymer, hydrogenated (68037-01-4)**

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### **Lubricating oils, petroleum, C20-50, hydrotreated neutral oil-based -IP346<3% (72623-87-1)**

Listed on the Canadian DSL (Domestic Substances List) inventory.

**International Inventories**

<b>TSCA</b>	Complies.
<b>DSL/NDSL</b>	Complies.
<b>EINECS/ELINCS</b>	Contact supplier for inventory compliance status.
<b>ENCS</b>	Contact supplier for inventory compliance status.
<b>IECSC</b>	Contact supplier for inventory compliance status.
<b>KECL</b>	Contact supplier for inventory compliance status.
<b>PICCS</b>	Contact supplier for inventory compliance status.
<b>AICS</b>	Contact supplier for inventory compliance status.

**Legend:****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**AICS** - Australian Inventory of Chemical Substances**16. Other information****Key or legend to abbreviations and acronyms used in the safety data sheet**

<b><u>NFPA</u></b>	<b>Health hazards</b> 0	<b>Flammability</b> 1	<b>Instability</b> 0	<b>Physical and chemical properties</b> -
<b><u>HMIS</u></b>	<b>Health hazards</b> 0	<b>Flammability</b> 1	<b>Physical hazards</b> 0	<b>Personal protection</b> X

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Key literature references and sources for data used to compile the SDS.**

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGl(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 RTECS (Registry of Toxic Effects of Chemical Substances)  
 World Health Organization

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**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**

### Data for Regulatory Rules

Region	Template name	Revision Note
Canada	HGHS	2.0

### GHS Product Information

Kinematic viscosity 45 CST @ 40°C  
 Physical state Liquid  
 Flash point °C 202

### Component Information

### Canada

**GHS Classification**

Not Hazardous	Not a hazardous substance or mixture according to the Globally Harmonized System (GHS) Not a hazardous substance or mixture according to Canada's Hazardous Product Regulations.
Signal word	None
Precautionary Statements - Disposal	Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.