### STIHL HP (HIGH PERFORMANCE) 2-CYCLE ENGINE OIL

Packaged for Stihl Incorporated, 536 Viking Drive, Virginia Beach, VA 23452



# Safety Data Sheet

Conforms to HCS 2012 (29 CFR 1910.1200)

### **Section 1. Identification**

**Product identifier** 

Product Name: STIHL HP (High Performance) 2-Cycle Engine Oil

Other names: F3E

Part/Product Number(s): 0781-319-8008, 0781-319-8009, 0781-319-8010, 0781-319-8014, 0781-319-8015, 0781-319-8016,

0781-319-8044, 0781-319-8045, 0781-319-8049, 0781-319-8051, 7010-871-0208, 7010-871-0177

Material Use: 2-cycle engine fuel additive

Uses advised against: Not for use in non-2-cycle engines

Manufacturer: Omni Specialty Packaging, LLC

10399 Hwy 1 South Shreveport, LA 71115 1-318-524-1100

**Issuing date:** May 21, 2015 **Revision date:** June 2, 2015

Revision number: 001

Company contact: OMNI EHS Department; E-Mail: <a href="mailto:sds@osp.cc">sds@osp.cc</a>; Contact phone: 318-524-1100

(Monday-Friday, 8:00 AM - 4:00 PM, CST)

In case of emergency: CHEMTREC: Within USA and Canada: 1 (800) 524-9300 (24/7)

CHEMTREC Outside USA and Canada: +1 703-527-3887 (24/7)

### Section 2. Hazards Identification

OSHA/HCS Status: This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29

CFR 1910.1200).

Classification of the substance or Mixture: Not classified

**GHS Label Elements** 

Hazard pictograms:

Signal word: None

Appearance: Blue Physical State: Liquid Odor: Petroleum distillates

Hazard statement: None

**Precautionary statements** 

General: Read label before use. Keep out of reach of children. If medical advice is needed, have product

container or label at hand.

Prevention: Not applicable
Response: Not applicable
Storage: Not applicable
Disposal: Not applicable

Hazards not otherwise classified (HNOC): Defatting to the skin.

Other information:

Product diluted with gasoline must be handled with the same precautions used for gasoline. Before mixing, the Safety Data Sheet for gasoline should be consulted for any precautionary measures necessary.

# Section 3. Composition/Information on Ingredients

Petroleum mineral oil lubricant base stock with proprietary performance additives mixture.

**Substance/mixture:** Mixture

Components Name	CAS number	<u>Weight %*</u>
Lubricant Base Oil (Petroleum) Highly refined mineral oils (C15-C50)	Various	85 – 95
2-Cycle Engine Oil Additives Mixture	Proprietary	5 – 15

This product does not contain known hazardous materials at the ≥ 1% level or known carcinogens at the ≥ 0.1% level as defined by 29 CFR 1910.1200.

## **Section 4. First Aid Measures**

Description of necessary first aid measures

General Advice: No specific first aid measures are required. Get medical attention if irritation develops and

persists.

Eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids

should be held away from the eyeball to ensure thorough rinsing. Check for and remove any

contact lenses. Get medical attention if irritation develops and persists.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and

shoes. Get medical attention if irritation or allergic reaction develops and persists.

In case of inhalation of decomposition products in a fire, symptoms may be delayed. If

inhaled, remove to fresh air. The exposed person may need to be kept under medical

surveillance for 48 hours. Get medical attention if symptoms occur.

**Ingestion:** Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. Remove all

sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective

clothing (see section 8).

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

See Section 11 for more detailed information on health effects and symptoms.

**Most Important** 

Symptoms and Effects: Personnel with pre-existing skin disorders should avoid contact with this product. Under normal use

conditions, no adverse effects to health are known.

**Eye contact:** Not expected to cause prolonged or significant eye irritation.

Skin contact: Contact with skin is not expected to cause prolonged or significant irritation. Contact with skin is not

expected to cause an allergic skin response. Not expected to be harmful to internal organs if

absorbed through the skin.

Inhalation: Not expected to be harmful if inhaled. Contains petroleum-based mineral oil. May cause

respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended oil mist exposure limit. Symptoms of respiratory

irritation may include coughing and difficult breathing.

**Ingestion:** Not expected to be harmful if swallowed.

**Note to physician:** Treat symptomatically.

<sup>\*</sup> The exact percentage of composition has been withheld as a trade secret.

# **Section 5. Fire-Fighting Measures**

Uniform Fire Code: Class IIIB
Flash Point: 222°C (432°F)

**Extinguishing Media** 

Suitable Media: In case of fire, use extinguishing measures that are appropriate to local circumstances and

the surrounding environment. Use water fog, alcohol resistant foam, dry chemical, carbon

dioxide (CO2) extinguisher or spray.

Unsuitable Media: CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific Hazards Arising from** 

the Chemical:

Keep product and empty container away from heat and sources of ignition as product will burn. Contact with strong oxidizers may cause fire. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be contained, prevented from being discharged to any waterway, sewer or drain and disposed of in

accordance with local regulations.

Hazardous Combustion Products: Combustion products may include the following: Carbon dioxide (CO2) Carbon

monoxide (CO), and Nitrogen oxides.

Protection of Fire Fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if

there is a fire. No action shall be taken involving any personal risk or without suitable training. As in any fire, wear self-contained breathing apparatus pressure-demand,

MSHA/NIOSH (approved or equivalent) and full protective gear.

# 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.

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.

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. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must

be grounded. See also the information in "For non-emergency personnel".

**Environmental precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains

and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). See Section 12 for ecological information.

#### Methods and materials for containment and cleaning up

Small Spills: Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in

an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spills: Stop leak if without risk. Move containers from spill area. 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. Dispose of via a licensed waste disposal contractor.

NOTE: If RQ (Reportable Quantity) is exceeded or if spills enter a body of water, report immediately to the USEPA's National Response Center at (800) 424-8802. Check with your local and state regulators regarding their reporting requirements.

# Section 7. Handling and Storage

Precautions for safe handling

Protective measures: Eye protection and face shield should be used if material is used under conditions that

increase the chances of splattering. Put on appropriate personal protective equipment

(see Section 8). Keep out of reach of children.

NOTE: Product diluted with gasoline must be handled with the same precautions used for gasoline. Before mixing, the

Safety Data Sheet for gasoline should be consulted for any precautionary measures necessary.

Advice on general occupational hygiene:

Do not get in eyes, on skin or on clothing. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment

before entering eating areas.

See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, Including any incompatibilities:

lities: 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.

direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, strong oxidizing agents (see Section 10) and food and drink. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). 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. Use appropriate containment to avoid environmental contamination. Avoid contaminating

soil or releases into sewage or drainage systems and bodies of water.

# **Section 8. Exposure Controls/Personal Protection**

**Control parameters** 

**Occupational Exposure Limits** 

Chemical name	ACGIH		OSHA		NIOSH	
Chemical name	TLV	STEL	PEL	STEL	TWA	Ceiling
Lubricant Base Oil (Petroleum)	5 mg/m3	10 mg/m3	5 mg/m3			
Highly refined mineral oils (C15-C50)	(mist)	(mist)	(mist)	_	_	_

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne

contaminants. Emergency shower and eyewash station.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure

they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**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 safety glasses with side shields. A face shield may be necessary under

some conditions.

**Skin and Body Protection** 

Hand protection: Wear protective gloves if prolonged or repeated contact is likely. Wear

chemical resistant gloves. Recommended: Nitrile gloves. Consult your supervisor

or Standard Operating Procedure (SOP) for special handling instructions.

**Body protection:** No protective equipment is needed under normal use conditions. For non-routine

tasks, personal protection equipment for the body should be selected based on the

task being performed and the risks involved.

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: No respiratory protection is normally required. If user operation generates an oil

mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from measured concentrations of this material. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide

adequate protection.

# **Section 9. Physical and Chemical Properties**

Appearance (Typical or Target)

Physical State: Liquid Color: Blue

Odor: Petroleum distillates
Odor threshold: Not available
pH: Not applicable
Boiling Point: Not available

Flash Point (Closed cup): 222°C (432°F) (Typical or Target)
Pour Point: -25°C (-13°F) (Typical or Target)

Evaporation rate (Butyl acetate = 1): Not available

Flammability (solid, gas): Not applicable. Based on - Physical state

Flammable) Limit in Air
Vapor pressure:

Not available
Not available

Vapor density (Air = 1): >1

Relative density: 0.8820 - 0.8990 g/l at 15°C (Typical or Target)

Solubility: In soluble in water
Partition coefficient (n-Octanol/water): Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity – Kinematic (cSt (mm2/s) @ 40°C): 85 to 100
Viscosity – Kinematic (cSt (mm2/s) @ 100°C):10.3 to 12
VOC %: <0.026%

### Section 10. Stability and Reactivity

Reactivity: Not reactive under normal storage conditions
Chemical stability: Stable under normal storage conditions

Possibility of hazardous reactions: None under normal processing.

Hazardous polymerization: Hazardous polymerization does not occur.

Conditions to avoid: Heat, flames and sparks.

Incompatible materials: Oxidizing agents, Halogens, Halogenated compounds

Hazardous decomposition products: May include: Fumes, Oil vapors, Smoke, Carbon Oxides (including carbon monoxide

and carbon dioxide), Aldehydes, Nitrogen oxides, and incomplete combustion

products.

# Section 11. Toxicological Information

Information on toxicological effects

Basis for Assessment: Information given is based on product data, a knowledge of the components and the

toxicity of similar products.

**Likely Routs of Exposure:** Exposure may occur via skin absorption, skin or eye contact, inhalation, ingestion.

Substance/Mixture

Acute Toxicity	Oral LD50	Dermal LD50	Inhalation LC50
Lubricant Base Oil (Petroleum) Highly refined mineral oils (C15-C50) Mixture - Typical	>2000 mg/Kg (rat)	>2000 mg/Kg (rabbit)	>2.18 mg/L (rat) 4h (mist)

Aspiration hazard: Not expected to be an aspiration hazard.

Skin Corrosion/Irritation: No known significant effects or critical hazards.

Serious Eye Damage/Irritation: No known significant effects or critical hazards.

**Skin Sensitization:** No known significant effects or critical hazards.

**Respiratory Sensitization:** No known significant effects or critical hazards.

Specific Target Organ Toxicity (Single Exposure) - STOT-SE: Specific Target Organ Toxicity

No known significant effects or critical hazards.

(Repeated Exposure) – STOT-RE: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Germ Cell Mutagenicity: No known significant effects or critical hazards.

Reproductive Toxicity No known significant effects or critical hazards.

### **Information on Toxicity Effects of Compounds**

### **Lubricant Base Mineral Oil (Petroleum)**

Mineral oils are known to cause cancer because of carcinogenic components (e.g. Benzene). The lubricant base mineral oils in this product have been highly refined by a variety of processes including severe solvent extraction, severe hydro cracking or severe hydro treating to reduce aromatics and improve performance characteristics. The oils in the is product meets the IP-346 criteria of less than 3 percent PHA's and are not considered to be a carcinogen by the International Agency for Research on Cancer.

None of the oils in this product requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IRAC) as: carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

#### 2-Cycle engine oils mix with gasoline:

2-cycle engine oils diluted with gasoline must be handled with the same precautions used for gasoline. Before mixing, the Safety Data Sheet for gasoline should be consulted for any precautionary measures necessary.

# Section 12. Ecological Information

The information is based on data available for the material, the components of the material, and similar materials.

**Ecotoxicity:** No testing has been performed by the manufacturer. Ecotoxicity hazard is based on an evaluation of data for the components or a similar material. Not expected to be harmful to aquatic organisms.

Mobility: Base oil component – Low solubility and floats and is expected to migrate from water

to land. Expected to partition to sediment and wastewater solids.

Soil/water partition
coefficient (Koc):

Not available.

**Persistence and degradation** 

Biodegradation: The material is not expected to be readily biodegradable. The biodegradability of

this material is based on an evaluation of data for the components or a similar

material.

**Bioaccumulative potential** 

Bioaccumulation: This product is not expected to bioaccumulate through food chain in the

environment.

Other adverse effects: No known significant effects or critical hazards.

Other ecological information:

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

# Section 13. Disposal Considerations

Disposal recommendations based on material supplied.

Waste treatment methods: This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR

261). Consult the appropriate state, regional, or local regulations for additional requirements.

The generation of waste should be avoided or minimized wherever possible.

Product waste: Significant quantities of waste product residues should not be disposed of via the sanitary

sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Incineration or landfill should only be considered when recycling is not

feasible. Oil collection services are available for used oil recycling.

Contaminated packaging: Empty containers or liners may retain some product residues and could pose a potential fire and

explosion hazard. Do not cut, puncture, or weld containers.

Other information: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and

sewers

## Section 14. Transport Information

General information: Petroleum Lubricating oil - Not regulated.

	DOT Classification	IMDG	IATA
Stihl HP 2-Cycle	Not Regulated	Not Regulated	Not Regulated

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.

# Section 15. Regulatory Information

**United States Regulations** 

United States Inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304: No products were found.

SARA 311/312: Immediate (Acute) Health Effects: No

Delayed (Chronic) Health Effects: No Fire Hazard: No Sudden Release of Pressure Hazard: No Reactivity Hazard: No

**SARA 313**:

The following components of this material are found on the EPCRA 313 list:

None

Supplier notification: This product does not contain any hazardous ingredients at or above regulated

thresholds.

CWA (Clean Water Act): This product does not contain any substances regulated as pollutants pursuant to the

Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA:** This material, as supplied, does not contain any substances regulated as a hazardous

substance under the Comprehensive Environmental Response Compensation and Liability

Act (CERCLA) (40 CFR 302).

**State Regulations** 

Massachusetts:None of the components are at or above regulated thresholds.New Jersey:None of the components are at or above regulated thresholds.Pennsylvania:None of the components are at or above regulated thresholds.

California Proposition 65: WARNING: This product contains a chemical known to the State of California to cause cancer.

Ethylbenzene - < 0.1

**Canada** 

WHMIS Hazard Class: Not classified.

#### **International Chemical Inventories:**

All components comply with the following chemical inventory requirements: DSL (Canada)

### **Section 16. Other Information**

NFPA Rating:	Health Hazard - 1	Flammability - 1	Instability/Reactivity - 0
HMIS Rating:	Health Hazard - 1	Flammability - 1	Physical Hazards - 0

(NFPA & HMIS Hazard Rating Key: 0 - Minimum Hazard; 1 - Slight Hazard; 2 - Moderate Hazard; 3 - High Hazard; 4 - Extreme Hazard; \* - Chronic Hazard Indicator, & PPE - Personal Protective Equipment Index A to L. These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS or Hazardous Material Identification System).

#### Key to abbreviations:

OSHA = Occupational Safety and Health Administration ACGIH= American Conference of Industrial Hygienists

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service Registry Number

cSt = Centistroke (mm2/s)

GHS = Global Harmonized System of Classification and Labeling Of Chemicals.

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

OEL = Occupational Exposure Limit

SDS = Safety Data Sheet STEL = Short term exposure Limit

UN = United Nations

UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on

the Transportation of Dangerous Goods

Prepared By: OMNI Specialty Packaging EH&S Department

Revision Date: June 2, 2015

Status: Final

Revision Note: Revision 001 of OSHA GHS SDS format.

### Consumer Product Improvement Act of 2008, General Conformity Certification

For Consumer Product Packages: This product has been evaluated and is certified to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission. Where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No testing is required to certify compliance with the provisions. The date of the manufacturing is stamped on the product container.

#### **Disclaimer**

All reasonably practicable steps have been taken to ensure 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 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. This information is furnished upon condition that the person receiving it shall make their own determination of the suitability of the material for their particular purpose.