# **Material Safety Data Sheet**



## 1. Product and company identification

Product name Stihl Two Stroke Engine Oil

MSDS # 460317

Code 460317-CA01

Product use Engine oils.

For specific application advice see appropriate Technical Data Sheet or consult our company

representative.

Manufacturer Castrol Canada Inc.

3660 Lakeshore Blvd. Toronto, Ontario M8W 1P2 Telephone: (416) 252-5511 Telecopier: (416) 252-1774

**EMERGENCY HEALTH** 

**INFORMATION:** 

1 (800) 447-8735

Outside the US: +1 703-527-3887 (CHEMTREC)

EMERGENCY SPILL 1 (800) 424-9300 CHEMTREC (USA)

OTHER PRODUCT 1 (866) 4 BP - MSDS

**INFORMATION** (866-427-6737 Toll Free - North America)

email: bpcares@bp.com

### 2. Hazards identification

Physical state Liquid.

Color Not available.

Emergency overview WARNING!

COMBUSTIBLE LIQUID AND VAPOR.
MAY CAUSE ALLERGIC SKIN REACTION.

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

Combustible liquid. Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis. Keep away from heat, sparks and flame. Do not breathe vapor or mist. Do not get on skin or clothing. Avoid contact with eyes. Use only with adequate ventilation Keep container

tightly closed and sealed until ready for use. Wash thoroughly after handling.

Routes of entry Dermal contact. Eye contact. Inhalation. Ingestion.

**Potential health effects** 

**Eyes** May cause eye irritation.

Skin May cause skin irritation. May cause allergic skin reaction. Prolonged or repeated contact can

defat the skin and lead to irritation and/or dermatitis.

**Inhalation** May cause respiratory tract irritation.

**Ingestion** Ingestion may cause gastrointestinal irritation and diarrhea.

See toxicological Information (section 11).

Product name Stihl Two Stroke Engine Oil Product code 460317-CA01 Page: 1/6

Version 1 Date of issue 10/18/2011. Format Canada Language ENGLISH.

Build 6.3.2 (Canada) (ENGLISH)

## 3. Composition/information on ingredients

Ingredient nameCAS #%Base oil - highly refinedMixture65 - 75Petroleum naphtha64742-47-820 - 25

### 4. First aid measures

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

attention if symptoms occur.

**Skin contact** Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes.

Wash clothing before reuse. Thoroughly clean shoes before reuse. In the event of any complaints

or symptoms, avoid further exposure. Get medical attention if symptoms occur.

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by

mouth to an unconscious person. If large quantities of this material are swallowed, call a physician

immediately. Get medical attention if symptoms occur.

## 5. Fire-fighting measures

Flammability of the

product

Combustible liquid.

Flash point

Closed cup: 60.6°C (141.1°F)

Fire/explosion hazards In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a

subsequent explosion.

**Extinguishing media** 

Suitable Use DRY chemicals, CO<sub>2</sub>, water spray or foam.

Not suitable Do not use water jet.

Fire-fighting procedures 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. Move containing

vessels from fire area if without risk. Use water spray to keep fire-exposed containers cool.

**Hazardous combustion** 

products

Decomposition products may include the following materials:

carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide)

**Protective clothing (fire)** Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus

(SCBA) with a full facepiece operated in positive pressure mode.

### 6. Accidental release measures

**Personal precautions** 

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. Shut off all ignition sources. No flares, smoking or flames in hazard area. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**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).

### Methods and materials for containment and clean-up

Large spill

Version 1

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth, and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. 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

**Product code** 

Product name Stihl Two Stroke Engine Oil

Date of issue 10/18/2011.

Format Canada

460317-CA01 Page: 2/6

Build 6.3.2 (Canada)

(ENGLISH)

Language ENGLISH.

information and section 13 for waste disposal.

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

## 7. Handling and storage

Handling

Put on appropriate personal protective equipment (see Section 8). Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems should not be employed in any process in which this preparation is used. Do not get in eyes, 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. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame, or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

**Storage** 

Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10). Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that are opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

### **Occupational exposure limits**

Ingredient name Occupational exposure limits

Base oil - highly refined ACGIH (United States).

STEL: 10 mg/m³ 15 minute(s). Form: Oil mist, mineral TWA: 5 mg/m³ 8 hour(s). Form: Oil mist, mineral **ACGIH TLV (United States, 1/2007). Skin** 

Petroleum naphtha ACGIH TLV (United States, TWA: 200 mg/m³ 8 hour(s).

While specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

**Control Measures** 

Use only with adequate ventilation Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. The engineering controls also need to keep gas, vapor or dust concentrations below any explosive limits. Use explosion-proof ventilation equipment.

**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.

**Personal protection** 

Eyes Avoid contact with eyes. Safety glasses with side shields or chemical goggles.

Skin and body Avoid contact with skin and clothing. Wear suitable protective clothing.

**Respiratory** Use adequate ventilation. In accordance with good industrial hygiene and safety work practices,

airborne exposures should be controlled to the lowest extent practicable.

Hands

The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of

protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and

with a full assessment of the working conditions.

Consult your supervisor or S.O.P. for special handling directions

Product name Stihl Two Stroke Engine Oil

**Product code** 

460317-CA01 Page: 3/6

Version 1 Date of issue 10/18/2011.

Format Canada

Language ENGLISH.

Build 6.3.2 (Canada)

(ENGLISH)

## 9. Physical and chemical properties

Physical state Liquid.

ColorNot available.OdorNot available.Odor thresholdNot available.

Flash point Closed cup: 60.6°C (141.1°F)

Specific gravity Not available.

**Density** 866 kg/m³ (0.866 g/cm³) at 15°C

pH Not available.

Viscosity Kinematic: 26.74 mm<sup>2</sup>/s (26.74 cSt) at 40°C

Kinematic: 5.45 mm<sup>2</sup>/s (5.45 cSt) at 100°C

Boiling point / Range Not available.

Melting point / Range Not available.

Vapor pressure Not available.

Vapor density Not available.

Evaporation rate Not available.

Solubility Insoluble in water.

LogKow Not available.

## 10. Stability and reactivity

Stability and reactivity The product is stable. Under normal conditions of storage and use, hazardous polymerization will

not occur.

**Conditions to avoid** Keep away from heat, sparks and flame.

Incompatibility with various substances

Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

Hazardous polymerization Will not occur.

## 11. Toxicological information

#### Other information

#### Potential chronic health effects

Carcinogenicity

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

Teratogenicity

No known significant effects or critical hazards.

Fertility effects

No known significant effects or critical hazards.

Reproductive effects

No known significant effects or critical hazards.

Medical conditions

aggravated by over-

exposure

Pre-existing skin disorders may be aggravated by over-exposure to this product.

Product name Stihl Two Stroke Engine Oil Product code 460317-CA01 Page: 4/6

Version 1 Date of issue 10/18/2011. Format Canada Language ENGLISH.

Build 6.3.2 (Canada) (ENGLISH)

## 12. Ecological information

No testing has been performed by the manufacturer.

## 13. Disposal considerations

**Waste information** 

The generation of waste should be avoided or minimised wherever possible. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

NOTE: The generator of waste has the responsibility for proper waste identification (based on characteristic(s) or listing), transportation and disposal

## 14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification	NA1993	Combustible liquid, n.o.s. (Straight run kerosene)	Combustible liquid.	III	-
TDG Classification	Not regulated.	-	-	-	-
IMDG Classification	Not regulated.	-	-	-	-
IATA/ICAO Classification	Not regulated.	-	-	-	-

### 15. Regulatory information

U.S. Federal regulations

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

WHMIS (Canada)

Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).

Class D-2B: Material causing other toxic effects (TOXIC).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**Inventories** 

Version 1

Canada inventory: All components are listed or exempted.

Europe inventory: All components are listed or exempted.

Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): Not determined.

Japan inventory (ENCS): Not determined.

Korea inventory (KECI): Not determined.

Philippines inventory (PICCS): All components are listed or exempted.

Product name Stihl Two Stroke Engine Oil

**Date of issue** 10/18/2011.

**Product code** 

460317-CA01

Page: 5/6

**Format Canada** 

Language ENGLISH.

Build 6.3.2 (Canada)

(ENGLISH)

### 16. Other information

Label requirements WARNING!

COMBUSTIBLE LIQUID AND VAPOR. MAY CAUSE ALLERGIC SKIN REACTION.

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

**History** 

**Date of issue** 10/18/2011.

Date of previous issue No Previous Validation.

Prepared by Product Stewardship

**Notice to reader** 

NOTICE: This Material Safety Data Sheet is based upon data considered to be accurate at the time of its preparation. Despite our efforts, it may not be up to date or applicable to the circumstances of any particular case. We are not responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices or from hazards inherent in the nature of the product.

Product nameStihl Two Stroke Engine OilProduct code460317-CA01Page: 6/6

Version 1 Date of issue 10/18/2011. Format Canada Language ENGLISH.

Build 6.3.2 (Canada) (ENGLISH)