



# SAFETY DATA SHEET

Revision Date 09-01-2019

Version 5

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Code(s)** 41143910-M  
**Product Name** DASCO SPARK 1010  
**Recommended Use** Metalworking fluid  
**Uses advised against** Any other purpose.

### Manufacturer, Importer, Supplier

Houghton International Inc. Madison & Van Buren Aves. Valley Forge, PA 19482 Telephone: 610-666-4000 FAX: 610-666-1376 Website: www.houghtonintl.com Customer Service: 888-459-9844	Houghton Canada 915 Meyerside Drive Mississauga ON L5T 1R8
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### Emergency telephone number

United States of America/Canada : 3E Company - 1-866-519-4752 ( Code 333938 )

## SECTION 2: HAZARDS IDENTIFICATION

### Classification

This product is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Workplace Hazardous Materials Information System (WHMIS) 2015

Aspiration toxicity	Category 1
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### Label elements

**Signal word**  
DANGER

### Hazard statements

May be fatal if swallowed and enters airways



### Precautionary Statements

#### Precautionary Statements - Response

##### Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
Do NOT induce vomiting

#### Precautionary Statements - Storage

Store locked up

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

**Health** Not Applicable.  
**Physical** Not Applicable.

#### Other Information

Prolonged skin contact may defat the skin and produce dermatitis  
Repeated exposure may cause skin dryness or cracking

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Highly refined, low viscosity base oil (Viscosity <7 cSt @40°C)	-	80% - 100%

*The exact percentage (concentration) of composition has been withheld as a trade secret.*

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346. See Section 15 for additional information on base oils.

## SECTION 4: FIRST AID MEASURES

### Description of first-aid measures

<b>General advice</b>	Immediate medical attention is required. Do not get in eyes, on skin, or on clothing.
<b>Inhalation</b>	Move to fresh air. Get medical attention immediately if symptoms occur. Potential for aspiration if swallowed.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use.
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.
<b>Ingestion</b>	If symptoms persist, call a physician. Do not induce vomiting without medical advice. Clean mouth with water and afterwards drink plenty of water. Aspiration hazard if swallowed - can enter lungs and cause damage.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

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

**Main Symptoms** May be fatal if swallowed and enters airways

**Indication of immediate medical attention and special treatment needed**

**Notes to physician** Treat symptomatically.

**SECTION 5: FIRE FIGHTING MEASURES****Extinguishing media****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment:, Use CO2, dry chemical, or foam, Water spray or fog, Cool containers / tanks with water spray

**Extinguishing media which shall not be used for safety reasons**

Do not use a solid water stream as it may scatter and spread fire

**Special hazards arising from the substance or mixture****Special Hazard**

In the event of fire and/or explosion do not breathe fumes. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). This material creates a fire hazard because it floats on water. Thermal decomposition can lead to release of irritating gases and vapors.

**Hazardous decomposition products**

Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide

**Advice for firefighters****Special protective equipment for fire-fighters**

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**

Use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Remove all sources of ignition.

**Advice for non-emergency personnel**

Material can create slippery conditions.

**Advice for emergency responders** For personal protection see section 8.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

**Methods and materials for containment and cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dike to collect large liquid spills. After cleaning, flush away traces with water.

**Reference to other sections**

See Section 8/12/13 for additional information

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

#### Technical measures/Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition.

#### Recommended Shelf Life

Shelf life 12 months.

#### Incompatible materials

None under normal use conditions

### Specific end uses

**Specific use(s)** Metalworking fluid

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

*Legend:*

(s) - Skin; TWA - Time-Weighted Average; STEL - Short Term Exposure Limit; Ceiling - Ceiling Value; TLV® - Threshold Limit Value; PEL (Permissible Exposure Limit); IDLH (immediately dangerous to life and health); WEEL (Workplace Environmental Exposure Level Guides)

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	AIHA WEEL
Highly refined, low viscosity base oil (Viscosity <7 cSt @40°C)	5 mg/m <sup>3</sup> (mist)	5 mg/m <sup>3</sup> (mist)		

Hydrocarbon solvent vapor mixtures which do not have substance specific occupational exposure limits may be evaluated by the Reciprocal Calculation Procedure (RCP) which assigns a recommended occupational exposure limit based on the mass composition and hydrocarbon group guidance values (GGVs). Applicable recommended occupational exposure limits are shown in the table below.

Chemical name	RCP OEL	Manufacturer
Distillates (petroleum), hydrotreated middle 64742-46-7	RCP: TWA 1200 mg/m <sup>3</sup> 143ppm	
Distillates (petroleum), hydrotreated light 64742-47-8	RCP: TWA 1200 mg/m <sup>3</sup> 182ppm	
Naphtha (petroleum), hydrotreated heavy 64742-48-9	RCP: TWA 1000 mg/m <sup>3</sup>	
C12-C14 isoalkanes 68551-19-9	RCP: TWA 1200 mg/m <sup>3</sup>	
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	RCP C9-C15 aliphatics: 600mg/m <sup>3</sup>	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	TWA: 600 mg/m <sup>3</sup>	
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics,	RCP C9-C15 aliphatics: 600mg/m <sup>3</sup>	

<0.03% aromatics NOT AVAILABLE		
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	TWA: 150ppm TWA: 1200 mg/m <sup>3</sup>	
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics NOT AVAILABLE	TWA: 171 ppm TWA: 1200 mg/m <sup>3</sup>	
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics NOT AVAILABLE	RCP C9-C15 aliphatics: 600mg/m <sup>3</sup>	
Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	TWA: 165 ppm TWA: 1200 mg/m <sup>3</sup>	
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	RCP: TWA 1200 mg/m <sup>3</sup> 182ppm	
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics NOT AVAILABLE	RCP: TWA 600 mg/m <sup>3</sup>	
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics NOT AVAILABLE	RCP: TWA 600 mg/m <sup>3</sup>	
Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics NOT AVAILABLE	RCP: TWA 600 mg/m <sup>3</sup>	CEFIC-HSPA: 1200 mg/m <sup>3</sup>

**Exposure controls****Engineering Measures**

Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment****Eye/Face Protection**

Safety glasses with side-shields.

**Skin and body protection**

Wear protective gloves/clothing.

**Respiratory protection**

No special protective equipment required. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Physical state</b>	liquid	<b>Appearance</b>	clear colorless
<b>Odor</b>	No information available	<b>Odor threshold</b>	Not Determined

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
<b>pH</b>	Not applicable	Not applicable
<b>Melting point / freezing point</b>	Not Determined	
<b>Boiling point / boiling range</b>	Not Determined	
<b>Flash point</b>	> 100 Not Determined / > 212 °F	Cleveland Open Cup (BuAc = 1)
<b>Evaporation rate</b>	< 1	
<b>Flammability (solid, gas)</b>	Not Determined	
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit:</b>	Not Determined	
<b>Lower flammability limit:</b>	Not Determined	
<b>Vapor pressure</b>	Not Determined	negligible
<b>Vapor density</b>	Not Determined	
<b>Relative density</b>	~ 0.9	g/cm <sup>3</sup> @15.5°C

<b>Solubility(ies)</b>	Insoluble in water	
<b>Partition coefficient</b>	Not Determined	
<b>Autoignition temperature</b>	Not Determined	
<b>Decomposition temperature</b>	Not Determined	
<b>Kinematic viscosity</b>	< 20 cSt @ 40 °C	ASTM D 445
<b>Explosive properties</b>	Not applicable	
<b>Oxidizing Properties</b>	Not applicable	

**Other Information**

<b>Viscosity, kinematic (100°C)</b>	Not Determined	
<b>Pour Point</b>	-24 °C / -11 °F	
<b>VOC Content (ASTM E-1868-10)</b>	477 g/L	ASTM E-1868-10
<b>VOC content</b>	Not Determined	

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity**

None under normal use conditions

**Chemical stability**

Stable under normal conditions

**Possibility of hazardous reactions**

None under normal use conditions

**Conditions to avoid**

Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible materials**

None under normal use conditions.

**Hazardous decomposition products**

Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information** May be harmful if swallowed and enters airways.

**Inhalation** Risk of serious damage to the lungs (by aspiration)  
**Eye contact** Based on available data, the classification criteria are not met  
**Skin contact** Based on available data, the classification criteria are not met  
**Ingestion** Risk of product entering the lungs on vomiting after ingestion

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Highly refined, low viscosity base oil (Viscosity <7 cSt @40°C)	>2000 mg/kg	>2000 mg/kg	
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**Information on toxicological effects**

<b>Symptoms</b>	May be fatal if swallowed and enters airways. Prolonged skin contact may defat the skin and produce dermatitis.
<b><u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u></b>	
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met.
<b>Sensitization</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity (single exposure)</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity (repeated exposure)</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Risk of serious damage to the lungs (by aspiration).

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

No special environmental measures are necessary

**Persistence and degradability** The product is not readily biodegradable, but it can be degraded by micro-organisms, it is regarded as being inherently biodegradable.

**Bioaccumulation** No information available

**Mobility** The product is insoluble and floats on water. Is not likely mobile in the environment due its low water solubility.

**Other adverse effects** No information available

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Waste Disposal Methods** Dispose of in accordance with federal, state and local regulations.

**Contaminated packaging** Observe all label precautions until container is cleaned, reconditioned or destroyed.

## SECTION 14: TRANSPORT INFORMATION

**DOT** Not Regulated

**TDG** Not Regulated

IATA Not Regulated

IMDG Not Regulated

## SECTION 15: REGULATORY INFORMATION

### International Inventories

Inventory information may be utilizing alternative CAS#s or exemptions beyond those stated within this document For further information, please contact: ProductStewardship@houghtonintl.com

<b>TSCA</b>	Complies
<b>DSL</b>	Complies
<b>AICS</b>	Complies
<b>PICCS</b>	Complies
<b>KECL</b>	Complies
<b>IECSC</b>	Complies
<b>ENCS</b>	Complies
<b>TCSI</b>	Complies
<b>NZIoC</b>	Complies

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**AICS** - Australian Inventory of Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**TCSI** - Taiwan National Existing Chemical Inventory  
**NZIoC** - New Zealand Inventory of Chemicals

### U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

- Aspiration Hazard

#### 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

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this regulation, Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### U.S. State Regulations

#### SCAQMD Rule 1144

The sale or distribution in the SCAQM District of California for metal working fluids or direct-contact lubricants is allowed if EITHER the VOC of the product itself OR the VOC of the diluted product at the point of use is less than the following limits: (1) 75 g VOC/L for metal forming, metal removal, metal treating; (2) 50 g VOC/L for metal protection, direct-contact lubricant. The VOC of this product as sold is: 477 g/L



**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**International Regulations****Ozone-depleting substances (ODS)**

Not applicable

**Persistent Organic Pollutants**

Not applicable

**Chemicals Subject to Prior Informed Consent (PIC)**

Not applicable

**Other Information**

The highly refined, low viscosity base oil (Viscosity <7 cSt @40°C) contains one or more substance with the following CAS/EC numbers/REACH registration numbers:

Chemical name	CAS No
Distillates (petroleum), hydrotreated middle	64742-46-7
Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	64742-46-7
Distillates (petroleum), hydrotreated light	64742-47-8
Naphtha (petroleum), hydrotreated heavy	64742-48-9
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9
C12-C14 isoalkanes	68551-19-9
White mineral oil (petroleum)	8042-47-5
C18-C50 branched, cyclic and linear hydrocarbons – Distillates	848301-69-9
Alkanes, C14-16	90622-46-1
Alkanes, C12-26-branched and linear	90622-53-0
Alkanes, C11-15-iso-	90622-58-5
Alkanes, C16-20-iso-	90622-59-6
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	NOT AVAILABLE
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C11-C14, n-alkanes, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C14-C18, n-alkanes, cyclics, aromatics (2-30%)	NOT AVAILABLE
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C12-C16, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C13-C16, isoalkanes, cyclics, < 2% aromatics	NOT AVAILABLE
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	NOT AVAILABLE
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE
Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, < 2% aromatics	NOT AVAILABLE

<b>SECTION 16: OTHER INFORMATION</b>
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Key or legend to abbreviations and acronyms used in the safety data sheet

STOT SE - Specific target organ systemic toxicity (Single exposure)  
STOT RE - Specific target organ systemic toxicity (repeated exposure)  
VOC - Volatile organic compounds

**Revision Date** 09-01-2019

**Revision Note** Company Logo

**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**