



## SAFETY DATA SHEET

According to Canadian Hazardous Products Regulations (HPR) (SOR/2015/17)

SDS # : 33906

### COPAL SPRAY / AEROSOL

Date of the previous version: not applicable

Revision Date: 2018-06-01

Version 1

#### 1. IDENTIFICATION

##### Product identifier

Product name COPAL SPRAY / AEROSOL

##### Other means of identification

Product Code(s) 33906

Number LF9  
Substance/mixture Mixture

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

Identified uses Lubricating grease Gear

Uses advised against Do not use for any purpose other than the one for which it is intended.

##### Details of the supplier of the safety data sheet

Supplier TOTAL CANADA INC.  
220, LAFLEUR  
LASALLE, QUEBEC  
H8R 4C9  
Tel: (514) 595-7579  
Fax: (514) 595-5950

Contact Point service HSE

E-mail Address ProductSafety@total.com

##### Emergency telephone number

Emergency telephone 1-800-463-3955  
Company Phone Number +1 866 928 0789 (24h/24, 7d/7)  
+1 215 207 0061 (24h/24, 7d/7)

#### 2. HAZARDS IDENTIFICATION

##### Classification

Flammable Liquids Category 1  
Serious eye damage/eye irritation - Category 2A  
Specific target organ toxicity (single exposure) - Category 3  
Aspiration toxicity - Category 1

##### Label elements

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### WARNING

Extremely flammable aerosol  
 Pressurized container: May burst if heated  
 Causes serious eye irritation  
 May cause drowsiness or dizziness

#### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area  
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
 Do not spray on an open flame or other ignition source  
 Pressurized container: Do not pierce or burn, even after use

#### Precautionary Statements - Response

##### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention

##### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 Call a POISON CENTER or doctor if you feel unwell

##### Ingestion

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

#### Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed  
 Store locked up  
 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Unknown acute toxicity

10 % of the mixture consists of ingredient(s) of unknown toxicity

#### Other information

##### Physical-Chemical Properties

Aerosol: Pressurised container. This product contains a flammable component.

##### Environmental properties

The product may form an oil film on the water surface that may stop the oxygen exchange.

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Should not be released into the environment.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Chemical nature Mineral oil of petroleum origin.

Chemical Name	EC-No	CAS-No	Weight %
Hydrocarbons, C6, isoalkanes, <5% n-hexane	931-254-9	^	50-<60
carbon dioxide	204-696-9	124-38-9	10-<20
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts	270-608-0	68457-79-4	1-<2.5

### 4. FIRST AID MEASURES

#### First aid measures for different exposure routes

General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse.
Inhalation	Remove casualty to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration.
Ingestion	Clean mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately. Do not ingest. If swallowed then seek immediate medical assistance.
Protection of First-aiders	First aider needs to protect himself. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

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

Skin contact	Not classified based on available data.
Eye contact	Causes serious eye irritation.
Inhalation	Not classified based on available data. Inhalation of vapors in high concentration may

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cause irritation of respiratory system.

**Ingestion**

May be fatal if swallowed and enters airways.

**Symptoms**

No information available.

**Indication of immediate medical attention and special treatment needed, if necessary****Notes to physician**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**Carbon dioxide (CO<sub>2</sub>). ABC powder. Foam. Water spray or fog.**Unsuitable Extinguishing Media**

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

**Special Hazard**

Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Flash back possible over considerable distance. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. Phosphorous oxides. Combustion products include sulphur oxides ( SO<sub>2</sub> and SO<sub>3</sub> ) and Hydrogen sulphide H<sub>2</sub>S. Mercaptans. Zinc oxides.

**Explosion Data****Sensitivity to Mechanical Impact  
Sensitivity to Static Discharge**

None.

None.

**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. Evacuate non-essential personnel.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****General Information**

Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

**Other information**

See Section 12 for additional information.

**Environmental precautions****General Information**

Do not allow material to contaminate ground water system. Prevent entry into waterways, sewers, basements or confined areas. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. A vapor suppressing foam may be used to reduce vapors.

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### Methods and material for containment and cleaning up

**Methods for containment** If necessary dike the product with dry earth, sand or similar non-combustible materials.

**Methods for cleaning up** Dispose of contents/container in accordance with local regulation. In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 122 °F. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Never pierce, drill, grind, cut, saw or weld any empty container.

**Prevention of fire and explosion** Keep away from open flames, hot surfaces and sources of ignition. Empty containers may contain flammable or explosive vapors.

**Hygiene measures** Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

### Conditions for safe storage, including any incompatibilities

**Technical measures/Storage conditions** Keep in a dry, cool and well-ventilated place. For safety reasons in case of fire, cans should be stored separately in closed containments. Do not remove the hazard labels of the containers (even if they are empty). Keep away from heat. Protect from moisture.

**Materials to Avoid** Oxidizing agents. Strong acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure limits** Mineral oil mist:  
USA: OSHA (PEL) TWA 5 mg/m<sup>3</sup>, NIOSH (REL) TWA 5 mg/m<sup>3</sup>, STEL 10 mg/m<sup>3</sup>, ACGIH (TLV) TWA 5 mg/m<sup>3</sup> (highly refined).  
Ingredients with workplace control parameters.

Chemical Name	Alberta	British Columbia	Ontario	Quebec
carbon dioxide	TWA 5000 ppm	TWA 5000 ppm	TWA 5000 ppm	TWAEV 5000 ppm

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124-38-9	TWA 9000 mg/m <sup>3</sup> STEL 30000 ppm STEL 54000 mg/m <sup>3</sup>	STEL 15000 ppm	STEL 30000 ppm	TWAEV 9000 mg/m <sup>3</sup> STEV 30000 ppm STEV 54000 mg/m <sup>3</sup>
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### Legend

See section 16

### Exposure controls

#### Engineering Measures

Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

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

#### General Information

Protective engineering solutions should be implemented and in use before personal protective equipment is considered. These recommendations apply to the product as supplied.

#### Eye/face protection

If splashes are likely to occur, wear safety glasses with side-shields.

#### Skin and body protection

Wear suitable protective clothing. Protective shoes or boots.

#### Hand Protection

Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

#### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator with combination filter for vapor/particulate. Warning ! filters have a limited use duration. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and chemical properties

Color

black

Physical State @20°C

Aerosol

Odor

Characteristic

Odor Threshold

No information available

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<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH		Not applicable	
Melting point/range		Not applicable	
Boiling point/boiling range		Not applicable	
Flash point	< 0 °C < 32 °F		
Evaporation rate		No information available	
Flammability Limits in Air		No information available	
upper		No information available	
Lower		No information available	
Vapor Pressure		No information available	
Vapor density		No information available	
Relative density	0.780		
Density	780 kg/m <sup>3</sup>		
Water solubility		Insoluble	
Solubility in other solvents		No information available	
logPow		No information available	
Autoignition temperature		No information available	
Decomposition temperature		No information available	
Viscosity, kinematic		No information available	
Explosive properties	No information available		
Oxidizing Properties	No information available		
Possibility of hazardous reactions	No information available		
<u>Other information</u>			
Freezing Point		No information available	

### 10. STABILITY AND REACTIVITY

<u>Reactivity</u>	None under normal processing.
<u>Chemical stability</u>	Stable under recommended storage conditions.
<u>Possibility of hazardous reactions</u>	No dangerous reaction known under conditions of normal use.
<u>Conditions to avoid</u>	Keep away from open flames, hot surfaces and sources of ignition. Keep away from heat and sparks.
<u>Incompatible materials</u>	Oxidizing agents. Strong acids.
<u>Hazardous Decomposition Products</u>	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. Other decomposition products. Phosphorous oxides. Combustion products include sulphur oxides ( SO <sub>2</sub> and SO <sub>3</sub> ) and Hydrogen sulphide H <sub>2</sub> S. Mercaptans. Zinc oxides.

### 11. TOXICOLOGICAL INFORMATION

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### Information on likely routes of exposure

<b>Symptoms</b>	No information available.
<b>Skin contact</b>	Not classified based on available data.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Inhalation</b>	Not classified based on available data. Inhalation of vapors in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	May be fatal if swallowed and enters airways.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Acute toxicity - Product Information

<b>Oral</b>	Not classified based on available data
<b>Dermal</b>	Not classified based on available data
<b>Inhalation</b>	Not classified based on available data

#### Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrocarbons, C6, isoalkanes, <5% n-hexane ^	DL50 > 16750 mg/kg bw (rat - OECD 401)	LD50 (4h) > 3350 mg/kg bw (rabbit - OECD 402)	LC50 (4h) = 259354 mg/m <sup>3</sup> (vapour) (rat - OECD 403)
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts 68457-79-4	LD50 3600 mg/kg (Rat - OECD 401)	LD50 > 20000 mg/kg (Rabbit - OECD 402)	

<b>Skin corrosion/irritation</b>	Not classified based on available data.
<b>Serious eye damage/eye irritation</b>	Irritating to eyes.
<b>Respiratory or skin sensitization</b>	Not classified based on available data.
<b>Germ cell mutagenicity</b>	Not classified based on available data.
<b>Carcinogenicity</b>	Not classified based on available data.

<b>Reproductive toxicity</b>	Not classified based on available data.
<b>Target Organ Effects (STOT)</b>	None known.
<b>STOT - single exposure</b>	May cause drowsiness or dizziness.
<b>STOT - repeated exposure</b>	Not classified based on available data.
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways.

## 12. ECOLOGICAL INFORMATION

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### Ecotoxicity

#### Acute aquatic toxicity - Product Information

No information available

#### Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms
Hydrocarbons, C6, isoalkanes, <5% n-hexane ^	ErL50(72h) = 13.6 mg/l (Pseudokirchneriella subcapitata - QSAR Petrotox)	LL50 (96h) = 18.3 mg/l (Oncorhynchus mykiss - QSAR Petrotox)	EL50 (48h) = 31.9 mg/l (Daphnia magna - QSAR Petrotox)	-
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts 68457-79-4	EbL50 (72h) 21 mg/l (Scenedesmus subspicatus - OECD 201)	LC50 (96h) 4.5 mg/l (Cyprinodon variegatus - OECD 203)	EC50(48h) 23 mg/l (Daphnia magna-OECD 202)	

#### Chronic aquatic toxicity - Product Information

No information available

#### Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Hydrocarbons, C6, isoalkanes, <5% n-hexane ^	NOELR (72h) = 3.0 mg/l Pseudokirchneriella subcapitata - growth rate - QSAR Petrotox)	NOELR (21d) = 7.14 mg/l (Daphnia magna - QSAR Petrotox)	NOELR (28d) = 4.09 mg/l (Oncorhynchus mykiss - QSAR Petrotox)	
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts 68457-79-4		NOEC(21d) 0.8 mg/l (Daphnia magna)		

**Effects on terrestrial organisms** No information available.

### Persistence and degradability

No information available

### Bioaccumulative potential



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**Product Information** No information available.

**logPow** No information available

### Component Information

Chemical Name	log Pow
Hydrocarbons, C6, isoalkanes, <5% n-hexane ^	3.6
Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts 68457-79-4	0.69

### Mobility

**Soil** Given its physical and chemical characteristics, the product has no soil mobility.  
**Air** the product may evaporate  
**Water** The product is insoluble and floats on water

### Other adverse effects

**General Information** No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment

**Waste from residues/unused products** Should not be released into the environment. Do not empty into drains. Dispose of in accordance with all applicable national environmental laws and regulations. Where possible recycling is preferred to disposal or incineration. Other Regulatory Status: No Canadian federal standard; however, for general discharge guidance, federal installations limited to 15 mg/L for total oil and grease. Provincial criteria are likely and should be requested when notifying provincial authorities.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORT INFORMATION

### TDG

<b>UN/ID No</b>	UN1950
<b>Proper shipping name</b>	AEROSOLS
<b>Hazard class</b>	2.1
<b>Special Provisions</b>	80, 107
<b>Description</b>	UN1950, AEROSOLS, 2.1

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**DOT**

UN/ID No	UN1950
Proper shipping name	AEROSOLS
Hazard class	2.1
Special Provisions	N82
Description	UN1950, AEROSOLS, 2.1
Emergency Response Guide Number	126

**MEX**

UN/ID No	UN1950
Proper shipping name	AEROSOLS
Hazard class	2.1
Special Provisions	190, 277, 327, 344, 63
Description	UN1950, AEROSOLS, 2.1

**ICAO/IATA**

UN/ID No	UN1950
Proper shipping name	Aerosols, flammable
Hazard class	2.1
ERG Code	10L
Special Provisions	A145, A167, A802
Description	UN1950, Aerosols, flammable, 2.1
Excepted Quantity	E0
Limited quantity	30 kg G

**IMDG/IMO**

UN/ID No	UN1950
Proper shipping name	AEROSOLS
Hazard class	2.1
EmS No.	F-D, S-U
Special Provisions	63,190, 277, 327, 344, 381, 959
Marine pollutant	Marine pollutant
Description	UN1950, AEROSOLS (HYDROCARBONS, C6, ISOALKANES, <5% N-HEXANE), 2.1, MARINE POLLUTANT
Excepted Quantity	E0
Limited quantity	See SP277

**ADR/RID**

UN/ID No	UN1950
Proper shipping name	AEROSOLS
Hazard class	2
Classification Code	5F
Tunnel Restriction Code	(D)
Special Provisions	190, 327, 344, 625
Description	UN1950, AEROSOLS, 2, (D), Environmentally hazardous
ADR/RID-Labels	2.1
Environmental hazard	Yes
Limited quantity	1 L

**ADN**

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<b>UN/ID No</b>	UN1950
<b>Proper shipping name</b>	AEROSOLS
<b>Hazard class</b>	2
<b>Classification Code</b>	5F
<b>Special Provisions</b>	190, 327, 344, 625
<b>Description</b>	UN1950, AEROSOLS, 2, Environmentally hazardous
<b>Hazard Labels</b>	2.1
<b>Limited quantity</b>	1 L
<b>Ventilation</b>	VE01, VE04
<b>Equipment Requirements</b>	PP, EX, A

### 15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) (SOR/2015/17) and the Safety Data Sheet (SDS) contains all the information required by the HPR

<b>International Inventories</b>	All the substances contained in this product are listed or exempted from listing in the following inventories: Canada (DSL/NDSL) U.S.A. (TSCA)
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### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<b>NFPA</b>	<b>Health Hazard</b> 2	<b>Flammability</b> 2	<b>Instability</b> 0	<b>Special hazards -</b>
<b>HMIS</b>	<b>Health Hazard</b> 2	<b>Flammability</b> 2	<b>Physical Hazard</b> 0	<b>Personal protection</b> X

<b>Revision Date:</b>	2018-06-01
<b>Revision Note</b>	Initial Release

#### **Abbreviations, acronyms**

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

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OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

NTP = National Toxicology Program

### Section 8

TWA - Time Weight Average

STEL - Short Term Exposure Limits

+	Sensitizer	*	Skin designation
C:	Carcinogen	R:	Toxic to reproduction
Ceiling:	Ceiling Limit Value		

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the Safety Data Sheet