

# PHILLIPS & TEMRO ETHER CYLINDER

## SAFETY DATA SHEET

According to Canada's Hazardous Products Regulations (HPR) SOR/2015-17

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

#### Product identifier

Chemical Name	Mixture
CAS No.	Mixture
Trade Name	PHILLIPS & TEMRO 8200327,8201277
Product Code	10-500707, 10-500708

#### Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	Starting Fluid
Uses Advised Against	None

Company Identification	Spray Products Corporation P.O. Box 737 Norristown, PA 19404
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Telephone	(610) 277-1010
Fax	(610) 277-4390
E-Mail (competent person)	<a href="mailto:sds@sprayproducts.com">sds@sprayproducts.com</a>

#### Emergency telephone number

Emergency Phone No.	<b>Transportation Emergency:</b> CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)
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### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

HPR/WHIMIS 2015/GHS Classification	Flam. Gas 1; Liquefied gas; Skin Irrit. 2; Carc. 2; Repr. 2; STOT SE 3
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#### Label elements

Hazard Symbol



**DANGER**

Signal Word(s)

Hazard Statement(s)

Extremely flammable gas.  
Contains gas under pressure; may explode if heated.  
Causes skin irritation.  
Suspected of causing cancer.  
Suspected of damaging the unborn child.  
May cause drowsiness or dizziness.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Wash hands and exposed skin after use.  
Use only outdoors or in a well-ventilated area.  
Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.  
Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

Precautionary Statement(s)

# PHILLIPS & TEMRO ETHER CYLINDER

Eliminate all ignition sources if safe to do so.

## Other hazards

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt. *	CAS No.	Hazard classification
Diethyl Ether	55 - 65	60-29-7	Flam. Liq. 1; H224 Acute Tox. 4; H302 STOT SE 3; H336
Naptha (petroleum) hydrotreated light	20 - 30	64742-49-0	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Acute 2; H401 Aquatic Chronic 2; H11
Carbon Dioxide	10 - 15	124-38-9	Compressed dissolved gas; H280
Ethanol	<5	64-17-5	Flam. Liq. 2; H225 Eye Irrit. 2; H319
Chloroethane	< 2	75-00-3	Flam. Gas 1; H220 Carc. 2; H351
Petroleum Distillate	< 1	Mixture	Asp. Tox. 1; H304
Toluene	< 0.5	108-88-3	Flam. Liq. 2; H225 Repr. 2; H361 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Asp. Tox. 1; H304 STOT SE 3; H336 STOT RE 2; H373 Aquatic Acute 2; H401 Aquatic Chronic 3; H412

Additional Information – None

\* The exact percentage withheld as a trade secret.

## SECTION 4: FIRST AID MEASURES



### Description of first aid measures

Inhalation	Move person to fresh air. If breathing is laboured, administer oxygen. If symptoms develop, obtain medical attention.
Skin Contact	Wash affected skin with soap and water. If irritation (redness, rash, blistering) develops, get medical attention. Take off contaminated clothing and wash before reuse.
Eye Contact	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.
Ingestion	Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get immediate medical attention.

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

May cause drowsiness or dizziness.

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

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

# PHILLIPS & TEMRO ETHER CYLINDER

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

-Suitable Extinguishing Media

Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Keep containers cool by spraying with water if exposed to fire.

-Unsuitable Extinguishing Media

Do not use water jet.

### Special hazards arising from the substance or mixture

Contains gas under pressure; may explode if heated.

### Advice for fire-fighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Eliminate sources of ignition. Avoid contact with skin and eyes. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapours/spray.

### Environmental precautions

Prevent liquid entering sewers, basements and workpits. Avoid release to the environment.

### Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Collect spillage. Transfer to a container for disposal or recovery.

### Reference to other sections

None

### Additional Information

None

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Use product in a well-ventilated area only.

### Conditions for safe storage, including any incompatibilities

-Storage temperature

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

-Incompatible materials

This product should be stored away from sources of strong heat or oxidising chemicals.

### Specific end use(s)

Starting Fluid

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		OEL (Canada)	TLV (ACGIH)	OEL (Canada)	TLV (ACGIH)	
Alkanes (C5-C6)	-----	400 ppm**	1500 mg/m <sup>3</sup>	500 ppm**	-----	**n-heptane
Diethyl ether	60-29-7	400 ppm	400 ppm	500 ppm	500 ppm	-----
Chloroethane	75-00-3	100 ppm	100 ppm*	-----	-----	*A3
Carbon dioxide	124-38-9	5000 ppm	5000 ppm	30,000 ppm	30,000 ppm	-----
Toluene	108-88-3	50 ppm	20 ppm	-----	-----	*10-min. Ceiling

#Assure minimum oxygen content of work atmosphere. \*A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans

# PHILLIPS & TEMRO ETHER CYLINDER

## Recommended monitoring method

NIOSH 1500 (hydrocarbons, B.P. 36 - 126 °C); NIOSH 1610 (Ethyl ether); NIOSH 2519 (Ethyl chloride); NIOSH 1501 (Aromatic hydrocarbons)

## Exposure controls

### Appropriate engineering controls

Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded.

### Personal protection equipment

Eye/face protection



Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/ Other)



Wear suitable gloves if prolonged skin contact is likely. Check with protective equipment manufacturer's data.

Respiratory protection



Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with protective equipment manufacturer's data.

Thermal hazards

Not normally required. Use gloves with insulation for thermal protection, when needed.

## Environmental Exposure Controls

Avoid release to the environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance

Gases under pressure

Color

Colorless

Odour

Sweetish, Hydrocarbon-like

Odour Threshold (ppm)

Not available

pH (Value)

Not available

Melting Point (°C) / Freezing Point (°C)

Not available

Boiling point/boiling range (°C):

34 - 35 (Diethylether)

Flash Point (°C)

-45 (Diethylether)

Evaporation Rate

Not available

Flammability (solid, gas)

Extremely flammable

Explosive Limit Ranges

1.85% - 36.5% v/v (Diethylether)

Vapour pressure (Pascal)

$7.16 \times 10^4$  (Diethylether)

Vapour Density (Air=1)

Not available

Density (g/ml)

Not available

Solubility (Water)

Not available

Solubility (Other)

Not available

Partition Coefficient (n-Octanol/water)

Not available

Auto Ignition Point (°C)

175 (Diethylether)

Decomposition Temperature (°C)

Not available

Kinematic Viscosity (cSt)

Not available

Explosive properties

Not available Not explosive.

Oxidising properties

Not available

### Other information

Not available

## SECTION 10: STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions.

Chemical stability

Stable.

# PHILLIPS & TEMRO ETHER CYLINDER

<b>Possibility of hazardous reactions</b>	None anticipated.
<b>Conditions to avoid</b>	Avoid contact with heat and ignition sources.
<b>Incompatible materials</b>	This product should be stored away from sources of strong heat or oxidising chemicals.
<b>Hazardous decomposition product(s)</b>	Carbon monoxide, Carbon dioxide, Acid smoke

## SECTION 11: TOXICOLOGICAL INFORMATION

**Exposure routes:** Inhalation, Skin Contact, Eye Contact

### Information on toxicological effects

#### Diethyl Ether (CAS# 60-29-7):

<b>Acute toxicity</b>	Oral: LD50 = 1600 mg/kg-bw (rat) Dermal: LD50 >20000 mg/kg-bw (rabbit) May cause drowsiness or dizziness.
<b>Irritation/Corrosivity</b>	Non-irritant to skin and eye.
<b>Sensitisation</b>	It is not a skin sensitizer.
<b>Repeated dose toxicity</b>	Not to be expected.
<b>Carcinogenicity</b>	Not to be expected.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

<b>Mutagenicity</b>	Not to be expected.
<b>Toxicity for reproduction</b>	Not to be expected.

#### Toluene (CAS#108-88-3):

<b>Acute toxicity</b>	Oral LD50 = 5580 mg/kg (rat) Dermal LD50 >5000 mg/kg (rabbit) Inhalation LC50 (4 hour(s)) 28.1 mg/l (rat) - Vapours may cause drowsiness and dizziness.
<b>Irritation / Corrosivity</b>	Causes serious eye irritation. Causes skin irritation.
<b>Sensitisation</b>	It is not a skin sensitizer.
<b>Repeated dose toxicity</b>	Inhalation NOAEC = 1131 mg/m <sup>3</sup> (rat), 2 Year(s) - May cause damage to organs through prolonged or repeated exposure: neuropsychological effects, auditory dysfunction and effects on colour vision.
<b>Carcinogenicity</b>	It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

<b>Mutagenicity</b>	There is no evidence of mutagenic potential.
<b>Reproductive toxicity</b>	Suspected of damaging the unborn child. NOAEC: 2.8 mg/liter (rat)

#### Chloroethane (CAS# 75-00-3)

<b>Carcinogenicity</b>	
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NTP	IARC	ACGIH	OSHA	NIOSH
Clear Evidence in Female Mice	No.	A3 - Confirmed Animal Carcinogen	No.	Yes.

## SECTION 12: ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	
Short term	Not available.
Long Term	Not available.

# PHILLIPS & TEMRO ETHER CYLINDER

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

## SECTION 14: TRANSPORT INFORMATION

	Land transport (TDG)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	1954	1954	1954
Proper Shipping Name	Compressed gas, flammable, n.o.s. (contains diethyl ether and carbon dioxide)	Compressed gas, flammable, n.o.s. (contains diethyl ether and carbon dioxide)	Compressed gas, flammable, n.o.s. (contains diethyl ether and carbon dioxide)
Transport hazard class(es)	2.1	2.1	2.1
Packing group	Not applicable	Not applicable	Not applicable
Environmental hazards	None assigned	None assigned	None assigned
Special precautions for user	None assigned	None assigned	None assigned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

## SECTION 15: REGULATORY INFORMATION

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

This product has been classified in accordance to CPR Section 12 and the MSDS contains all the information required by the CPR.

Canada (DSL/NDL) - All chemicals listed.

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

Date of preparation: August 13, 2018

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

### Hazard Statement(s)

- H220: Extremely flammable gas.
- H224: Extremely flammable liquid and vapour.
- H225: Highly flammable liquid and vapour.
- H280: Contains gas under pressure; may explode if heated.
- H302: Harmful if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H336: May cause drowsiness or dizziness.
- H351: Suspected of causing cancer.
- H361d Suspected of damaging the unborn child.
- H373: May cause damage to organs through prolonged or repeated exposure.
- H401: Toxic to aquatic life.
- H411: Toxic to aquatic life with long lasting effects.
- H412: Harmful to aquatic life with long lasting effects.

Training advice: None.

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