# SIGMA-ALDRICH

# **Material Safety Data Sheet**

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RODUCT AND COMPA				
Draduat paras		4		
Product name	Eaton's Reag	gent		
Product Number	: 380814			
Brand	: Sigma-Aldrich			
Company	: Sigma-Aldrich Canada, Ltd 2149 Winston Park Drive OAKVILLE ON L6H 6J8			
Telephone	CANADA : +19058299500			
Fax	+19058299292			
Emergency Phone #	: 800-424-9300			
OMPOSITION/INFORM	IATION ON INGREDIENT	S		
Synonyms	: Phosphorus pe	ntoxide, 7.7 wt. % in methane	sulfonic acid	
CAS-No.	EC-No.	Index-No.	Concentration	
Phosphorus pentoxic				
1314-56-3	215-236-1	015-010-00-0	7.7 %	
Methanesulphonic ac	cid			
75-75-2	200-898-6	607-145-00-4	92.3 %	
13-13-2	200-030-0	007 140 00 4		
AZARDS IDENTIFICAT	TION		inhalation	
AZARDS IDENTIFICAT WHMIS Classification D1A Very Tox				
AZARDS IDENTIFICAT WHMIS Classification D1A Very Tox D1B Serious E HMIS Classification Health hazard: Flammability:	<b>FION</b> xic Material Causing Imme	ediate and Highly toxic by Toxic by skin al		
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### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

# If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

#### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

# In case of eye contact

Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# **5. FIRE-FIGHTING MEASURES**

#### Flammable properties

Flash point 113 °C (235 °F) - closed cup

Ignition temperature no data available

# Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

# Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

# 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### Environmental precautions

Do not let product enter drains.

## Methods for cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

# 7. HANDLING AND STORAGE

#### Handling

Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

#### Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

## **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves.

## Eye protection

Tightly fitting safety goggles. Faceshield (8-inch minimum).

# Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Form	liquid
Safety data	
рН	no data available
Melting point	no data available
Boiling point	122 °C (252 °F) at 1 hPa (1 mmHg)
Flash point	113 $^{\circ}$ C (235 $^{\circ}$ F) - closed cup
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	1.500 g/cm3
Water solubility	no data available

# **10. STABILITY AND REACTIVITY**

#### Storage stability

Stable under recommended storage conditions.

#### Materials to avoid

Water, Bases, Oxidizing agents, Strong oxidizing agents, Potassium, Metals, Amines, Ammonia, Alcohols, Peroxides, Strong reducing agents, Sodium/sodium oxides, Magnesium

## Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides

# **11. TOXICOLOGICAL INFORMATION**

# Acute toxicity

no data available

# Irritation and corrosion

no data available

# Sensitisation

no data available

## Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

# Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea

# **Potential Health Effects**

Inhalation	May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Skin	Toxic if absorbed through skin. Causes skin burns.
Eyes	Causes eye burns.
Ingestion	Harmful if swallowed. Causes burns.

# **12. ECOLOGICAL INFORMATION**

Elimination information (persistence and degradability)

no data available

## **Ecotoxicity effects**

no data available

## Further information on ecology

no data available

# 13. DISPOSAL CONSIDERATIONS

## Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

# Contaminated packaging

Dispose of as unused product.

# 14. TRANSPORT INFORMATION

## DOT (US)

UN-Number: 2922 Class: 8 (6.1) Packing group: II Proper shipping name: Corrosive liquids, toxic, n.o.s. (Methanesulphonic acid, Phosphorus pentoxide) Marine pollutant: No Poison Inhalation Hazard: No

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# IMDG

UN-Number: 2922 Class: 8 (6.1) Packing group: II EMS-No: F-A, S-B Proper shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (Phosphorus pentoxide, Methanesulphonic acid) Marine pollutant: No

# ΙΑΤΑ

UN-Number: 2922 Class: 8 (6.1) Packing group: II Proper shipping name: Corrosive liquid, toxic n.o.s. (Phosphorus pentoxide, Methanesulphonic acid)

# 15. REGULATORY INFORMATION

## DSL Status

All components of this product are on the Canadian DSL list.

### WHMIS Classification

D1A Very Toxic Material Causing Immediate and

D1B Serious Toxic Effects

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Highly toxic by inhalation Toxic by skin absorption Corrosive

# **16. OTHER INFORMATION**

## **Further information**

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