

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Prostaglandin A₂ solution

Product Number : 82472
Brand : Fluka

Company : Sigma-Aldrich Canada, Ltd
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CANADA

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : (5Z,13E,15S)-15-Hydroxy-9-oxoprostanoic acid
PGA₂

Formula : C₂₀H₃₀O₄

CAS-No.	EC-No.	Index-No.	Concentration
Methyl acetate			
79-20-9	201-185-2	607-021-00-X	99 %
Prostaglandins			
13345-50-1	-	-	1 %

3. HAZARDS IDENTIFICATION**Emergency Overview****Target Organs**

Eyes, Kidney, Central nervous system

WHMIS Classification

B2 Flammable Liquid

Flammable Liquid

D2A

Teratogen

D2B

Moderate eye irritant

HMIS Classification

Health Hazard: 2

Chronic Health Hazard: *

Flammability: 3

Physical hazards: 0

Potential Health Effects**Inhalation**

May be harmful if inhaled. Causes respiratory tract irritation. Vapours may cause drowsiness and dizziness.

Skin

May be harmful if absorbed through skin. Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

Eyes

Causes eye irritation.

Ingestion

May be harmful if swallowed.

4. FIRST AID MEASURES**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

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

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 -9 °C (16 °F)

Ignition temperature no data available

Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE**Handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

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. Store in cool place.

Recommended storage temperature: -20 °C

Light sensitive. Store under inert gas. Handle and store under inert gas. Moisture sensitive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Update	Basis
Methyl acetate	79-20-9	TWA	200 ppm 606 mg/m ³	2007-01-01	Canada, Alberta, Occupational Health and Safety Code (table 2: OEL)
		STEL	250 ppm 757 mg/m ³	2007-01-01	Canada, Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWA	200 ppm	2006-11-29	Canada, British Columbia OEL
		STEL	250 ppm	2006-11-29	Canada, British Columbia OEL
		TWAE V	200 ppm 605 mg/m ³	2005-12-17	Canada, Ontario OELs
		STEV	250 ppm 755 mg/m ³	2005-12-17	Canada, Ontario OELs
		TWAE V	200 ppm 606 mg/m ³	2006-12-29	Canada, Quebec OELs
		STEV	250 ppm 757 mg/m ³	2006-12-29	Canada, Quebec OELs

Personal protective equipment**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose 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

Safety glasses

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 clear, liquid

Colour light yellow

Safety data

pH no data available

Melting point no data available

Boiling point no data available

Flash point -9 °C (16 °F)

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Water solubility no data available

10. STABILITY AND REACTIVITY**Storage stability**

Stable under recommended storage conditions.

Conditions to avoid

Avoid moisture.
Heat, flames and sparks.

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Hazardous reactions

Vapours may form explosive mixture with air.

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.

Hazards and Symptoms of Exposure

Narcosis. This product is metabolized into formic acid. Humans and other primates metabolize formic acid more slowly than do rodents. Formic acid can build up in the body producing toxic effects possibly leading to death; therefore, data from studies in rodents may have limited relevance for human risk assessment. Lowered blood pressure. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects**Inhalation**

May be harmful if inhaled. Causes respiratory tract irritation. Vapours may cause drowsiness and dizziness.

Skin

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Eyes

Causes eye irritation.

Ingestion

May be harmful if swallowed.

Target Organs

Eyes, Kidney, Central nervous system,

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**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION**DOT (US)**

UN-Number: 1231 Class: 3 Packing group: II

Proper shipping name: Methyl acetate, solution

Poison Inhalation Hazard: No

Poison Inhalation Hazard: No

IMDG

UN-Number: 1231 Class: 3 Packing group: II

EMS-No: F-E, S-D

Proper shipping name: METHYL ACETATE, SOLUTION

Marine pollutant: No

IATA

UN-Number: 1231 Class: 3 Packing group: II

Proper shipping name: Methyl acetate, solution

15. REGULATORY INFORMATION**DSL Status**

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

Prostaglandins CAS-No. 13345-50-1

WHMIS Classification

B2 Flammable Liquid

Flammable Liquid

D2A

Teratogen

D2B

Moderate eye irritant

16. OTHER INFORMATION**Further information**

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