# SIGMA-ALDRICH

# Material Safety Data Sheet

Version 3.0 Revision Date 08/27/2009 Print Date 04/07/2010

	NY IDENTIFICATION			
Product name	Bis(acetylacetonato)dioxomolybdenum(VI)			
Product Number	: 227749			
Brand	: Aldrich			
Company	: Sigma-Aldrich Canada, Ltd 2149 Winston Park Drive OAKVILLE ON L6H 6J8 CANADA			
Telephone	: +19058299500			
Fax	: +19058299292			
Emergency Phone #	: 800-424-9300			
OMPOSITION/INFORM	IATION ON INGREDIENTS	5		
Formula	: C <sub>10</sub> H <sub>14</sub> MoO <sub>6</sub>			
Molecular Weight	: 326.15 g/mol			
CAS-No.	EC-No.	Index-No.	Concentration	]
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#### 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

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# **5. FIRE-FIGHTING MEASURES**

#### **Flammable properties**

Flash point no data available

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 dust formation. Avoid breathing dust. Ensure adequate ventilation.

## **Environmental precautions**

Do not let product enter drains.

## Methods for cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

# 7. HANDLING AND STORAGE

## Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Storage

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

# 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 dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

For prolonged or repeated contact use protective gloves.

#### Eye protection

Safety glasses with side-shields conforming to EN166

#### 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	powder
Colour	yellow
Safety data	
рН	no data available
Melting point	184 °C (363 °F) - lit.
Boiling point	no data available
Flash point	no data available
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.

#### Materials to avoid

Strong oxidizing agents, Strong bases

## Hazardous decomposition products

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

May liberate 2,4-pentanedione upon decomposition. 2,4-Pentanedione has the following toxicological hazards: toxic, irritant, neurological hazard, teratogen, possible mutagen, target organ - thymus. In humans, 2,4-pentanedione is reported to cause contact dermatitis and contact urticaria.

# **Potential Health Effects**

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

# **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.

# Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

# DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

#### ΙΑΤΑ

Not dangerous goods

# **15. REGULATORY INFORMATION**

#### **DSL Status**

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

Dioxobis(pentane-2,4-dionato-O,O')molybdenum

CAS-No. 17524-05-9

#### WHMIS Classification

Not WHMIS controlled.

Not WHMIS controlled.

# **16. OTHER INFORMATION**

## **Further information**

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