

# SAFETY DATA SHEET

1. Identification

Product identifier CALCIUM MOLYBDATE, 99.9%

Other means of identification

Product code A1497

**Recommended use** professional, scientific and technical activities: other professional, scientific and technical activities

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

**Manufacturer** 

**Company name Address**GFS Chemicals, Inc.
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Powell, OH 43065

United States

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Toll Free 800-858-9682 Fax 740-881-5989

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E-mail service@gfschemicals.com

**Emergency phone** Emergency Assistance Chemtrec 800-424-9300

number

2. Hazard(s) identification

Physical hazards Not classified.

**Health hazards** Acute toxicity, oral Category 3

Specific target organ toxicity, repeated Category 2

exposure

**Environmental hazards** Not classified. **OSHA defined hazards** Not classified.

**Label elements** 



Signal word Danger

**Hazard statement** Toxic if swallowed. May cause damage to organs through prolonged or repeated exposure.

**Precautionary statement** 

**Prevention** Do not breathe dust. Do not eat, drink or smoke when using this product. Wash thoroughly after

handling.

**Response** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Wash

hands after handling.

**Storage** Store locked up.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** None.

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## 3. Composition/information on ingredients

### **Substances**

Chemical name	Common name and synonyms	CAS number	%
CALCIUM MOLYBDATE		7789-82-4	100

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

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### 4. First-aid measures

**Inhalation** If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a

physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists. Eye contact

**Ingestion** Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without

advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested 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

Irritation of eyes. Upper respiratory tract irritation. Prolonged exposure may cause chronic effects.

**Indication of immediate** medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

under observation. Symptoms may be delayed.

**General information** If you feel unwell, seek medical advice (show the label where possible). Ensure that medical

personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media Use extinguishing agent suitable for type of surrounding fire. Water fog. Foam. Dry chemical

powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Use water spray to cool unopened containers.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Stop the flow of material, if this is without risk. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Do not breathe dust. Avoid contact with eyes. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

## **Occupational exposure limits**

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Material	Туре	Value
CALCIUM MOLYBDATE (CAS 7789-82-4)	PEL	5 mg/m3

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US. ACGIH Threshold Limit Values
Material Type Value Form

CALCIUM MOLYBDATE (CAS TWA 0.5 mg/m3 Respirable fraction.

7789-82-4)

Biological limit values

Appropriate engineering controls

No biological exposure limits noted for the ingredient(s).

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure

limits have not been established, maintain airborne levels to an acceptable level. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be

generated during handling or thermal processing.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles). Use tight fitting goggles if dust is generated.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Use of an impervious apron is recommended.

**Respiratory protection** Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels

exceeding the exposure limits. Wear respirator if there is dust formation.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** 

Solid. **Physical state** Powder. Form Color White. Odor Odorless. **Odor threshold** Not available. Not available. Melting point/freezing point 1769 °F (965 °C) Initial boiling point and Not available. boiling range

Flash point

Evaporation rate

Flammability (solid, gas)

Not available.

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit -

upper (%)

Not available.

**Explosive limit - lower** 

(%)

Not available.

**Explosive limit - upper** 

(%)

Not available.

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Insoluble.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

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Other information

Density4.50 g/cm3Molecular formulaCaMoO4Molecular weight200.02 g/mol

Specific gravity 4.5

# 10. Stability and reactivity

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

**Possibility of hazardous** 

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces

with compressed air).

**Incompatible materials** Strong oxidizing agents.

**Hazardous decomposition** 

products

Decomposition of this product may yield metallic oxides.

## 11. Toxicological information

## Information on likely routes of exposure

**Inhalation** May cause damage to organs through prolonged or repeated exposure by inhalation. Inhalation of

dusts may cause respiratory irritation.

**Skin contact** No adverse effects due to skin contact are expected.

**Eye contact** Dust in the eyes will cause irritation.

**Ingestion** Toxic if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Irritation of eyes. Upper respiratory tract irritation.

## Information on toxicological effects

**Acute toxicity** Toxic if swallowed.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Dust in the eyes will cause irritation.

# Respiratory or skin sensitization

**Respiratory sensitization** Not available.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

### **IARC Monographs. Overall Evaluation of Carcinogenicity**

Not listed

### **US OSHA Hazard Categories (1)**

Not regulated.

### **US OSHA Hazard Categories (10)**

Not regulated.

## **US OSHA Hazard Categories (2)**

Not regulated.

## **US OSHA Hazard Categories (3)**

Not regulated.

### **US OSHA Hazard Categories (4)**

Not regulated.

## **US OSHA Hazard Categories (5)**

Not regulated.

## **US OSHA Hazard Categories (6)**

Not regulated.

### **US OSHA Hazard Categories (7)**

Not regulated.

## **US OSHA Hazard Categories (8)**

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Not regulated.

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## **US OSHA Hazard Categories (9)**

Not regulated.

#### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity

- single exposure

Not classified.

Specific target organ toxicity

- repeated exposure

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not available.

**Chronic effects** May cause damage to organs through prolonged or repeated exposure.

# 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability No data is available on the degradability of this product.

**Bioaccumulative potential**No data available. **Mobility in soil**No data available.

**Other adverse effects**No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code**The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal

instructions).

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

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

# 14. Transport information

DOT

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

## 15. Regulatory information

**US federal regulations**This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard,

29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

**US OSHA Hazard Categories (1)** 

Not regulated.

**US OSHA Hazard Categories (2)** 

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Not regulated.

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**US OSHA Hazard Categories (3)** 

Not regulated.

**US OSHA Hazard Categories (4)** 

Not regulated.

**US OSHA Hazard Categories (5)** 

Not regulated.

**US OSHA Hazard Categories (6)** 

Not regulated.

**US OSHA Hazard Categories (7)** 

Not regulated.

**US OSHA Hazard Categories (8)** 

Not regulated.

**US OSHA Hazard Categories (9)** 

Not regulated.

**US OSHA Hazard Categories (10)** 

Not regulated.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

#### **SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312** Yes

**Hazardous chemical** 

SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Contaminate candidate list

### **US state regulations**

### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

## **US. Massachusetts RTK - Substance List**

Not regulated.

# **US. New Jersey Worker and Community Right-to-Know Act**

Not listed.

### US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

## **US. Rhode Island RTK**

Not regulated.

### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

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Country(s) or region **Inventory name** On inventory (yes/no)\* Japan Inventory of Existing and New Chemical Substances (ENCS) Korea Existing Chemicals List (ECL) Yes New Zealand New Zealand Inventory Yes Philippine Inventory of Chemicals and Chemical Substances **Philippines** Yes (PICCS)

Toxic Substances Control Act (TSCA) Inventory \*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

February-17-2016 **Issue date** 

Version # 01

United States & Puerto Rico

Disclaimer GFS Chemicals, Inc. cannot anticipate all conditions under which this information and its product,

> or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the

Yes

sheet was written based on the best knowledge and experience currently available.

**Revision information** Product and Company Identification: Physical States

Physical & Chemical Properties: Multiple Properties

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