


Chromium(III) Acetate Hydroxide		Pricing >
Signal Word	Warning	
Hazard Statements	H317	
Hazard Codes	Xi	
Precautionary Statements	P261-P280-P302+P352-P333+P313-P363-P501	
Risk Codes	R20/21/22 R36/37/38	
Safety Statements	S26 S37/39	
RTECS Number	AG3000000	
Transport Information	NONH for all modes of transport	
WGK Germany	2	
GHS Pictograms	GHS07 Exclamation Point 	

[Create Printable PDF](#)

SAFETY DATA SHEET

Date Accessed: 04/29/2024

Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #39430-51-8

Relevant identified uses of the substance:
Scientific research and development

Supplier details:
American Elements
10884 Weyburn Ave.
Los Angeles, CA 90024
Tel: +1 310-208-0551
Fax: +1 310-208-0351

Emergency telephone number:
Domestic, North America +1 800-424-9300
International +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin sensitization (Category 1), H317
GHS Label elements, including precautionary statements
Pictogram



Signal word Warning
Hazard statement(s)
H317 May cause an allergic skin reaction.
Precautionary statement(s)
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P501 Dispose of contents/ container to an approved waste disposal plant.
Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances
Formula : C₁₄H₂₃Cr₃O₁₆
Molecular weight : 603.31 g/mol
CAS-No. : 39430-51-8
EC-No. : 254-447-3

SECTION 4. FIRST AID MEASURES

Description of first-aid measures
General advice
Consult a physician. Show this material safety data sheet to the doctor in attendance.

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
Flush eyes with water as a precaution.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11
Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture
Carbon oxides
Chromium oxides
Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.
Further information
No data available

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
For personal protection see section 8.
Environmental precautions
Do not let product enter drains.
Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust.
Sweep up and shovel. Keep in
suitable, closed containers for disposal.
Reference to other sections
For disposal see section 13.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling
Advice on safe handling
Avoid contact with skin and eyes. Avoid formation of
dust and aerosols. Advice on safe
handling
Further processing of solid materials may result in the
formation of combustible dusts. The
potential for combustible dust formation should be
taken into consideration before
additional processing occurs.
Advice on protection against fire and explosion
Provide appropriate exhaust ventilation at places
where dust is formed.
Hygiene measures
Handle in accordance with good industrial hygiene
and safety practice. Wash hands before
breaks and at the end of workday.
For precautions see section 2.
Conditions for safe storage, including any
incompatibilities
Storage conditions
Keep container tightly closed in a dry and well-
ventilated place.
Keep in a dry place.
Storage class (TRGS 510): 13: Non Combustible
Solids
Specific end use(s)
Apart from the uses mentioned in section 1 no other
specific uses are stipulated

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Ingredients with workplace control parameters
Contains no substances with occupational exposure
limit values.
Exposure controls
Appropriate engineering controls
Handle in accordance with good industrial hygiene
and safety practice. Wash hands
before breaks and at the end of workday.
Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

a) Appearance Form: powder

Color: green

b) Odor No data available

c) Odor Threshold No data available

d) pH No data available

e) Melting point/freezing point

> 400 °C (> 752 °F) at ca.1,013 hPa - OECD Test Guideline 102

f) Initial boiling point and boiling range

No data available

g) Flash point () No data available

h) Evaporation rate No data available

i) Flammability (solid, gas)

not auto-flammable - Flammability (solids)

j) Upper/lower flammability or explosive limits

No data available

k) Vapor pressure No data available
l) Vapor density No data available
m) Relative density 0.91
n) Water solubility 675 g/l at 20 °C (68 °F) - OECD
Test Guideline 105
o) Partition coefficient: n-octanol/water
log Pow: 0.2 at 22 °C (72 °F)
p) Autoignition temperature
No data available
q) Decomposition temperature
No data available
r) Viscosity No data available
s) Explosive properties No data available
t) Oxidizing properties No data available
Other safety information
No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity
No data available
Chemical stability
Stable under recommended storage conditions.
Possibility of hazardous reactions
No data available
Conditions to avoid
No data available
Incompatible materials
Strong oxidizing agents
Hazardous decomposition products
In the event of fire: see section 5

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute toxicity
LD50 Oral - Rat - female - > 5,000 mg/kg
(OECD Test Guideline 423)
Inhalation: No data available
LD50 Dermal - Rat - male and female - > 2,000 mg/kg
(OECD Test Guideline 402)
No data available
Skin corrosion/irritation
No data available
Serious eye damage/eye irritation
No data available
Respiratory or skin sensitization
in vivo assay - Mouse
Result: May cause sensitization by skin contact.
(OECD Test Guideline 429)

Germ cell mutagenicity

Ames test

S. typhimurium

Result: negative

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

Reproductive toxicity

No data available

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish semi-static test LC50 - *Danio rerio*

(zebra fish) - > 100 mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

static test EC50 - *Daphnia magna* (Water flea) - > 100 mg/l - 48 h

(OECD Test Guideline 202)

Persistence and degradability

Biodegradability aerobic - Exposure time 9 d

Result: 91.8 % - Readily biodegradable.
(OECD Test Guideline 301A)
Bioaccumulative potential
No data available
Mobility in soil
No data available
Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical
safety assessment not required/not
conducted
Other adverse effects
No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a
licensed disposal company.
Contaminated packaging
Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods
Further information
Not classified as dangerous in the meaning of
transport regulations.

SECTION 15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the
reporting requirements of SARA Title III,
Section 302.
SARA 313 Components
This material does not contain any chemical
components with known CAS numbers that
exceed the threshold (De Minimis) reporting levels
established by SARA Title III, Section
313.
Massachusetts Right To Know Components
No components are subject to the Massachusetts

Right to Know Act.
Pennsylvania Right To Know Components
Chromium(III) acetate hydroxide CAS-No.
39430-51-8
Revision Date
2015-07-08
California Prop. 65 Components
This product does not contain any chemicals known to
the State of California to cause
cancer, birth, or any other reproductive defects.
This product does not contain any chemicals known to
the State of California to cause
cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No.
1907/2006 (REACH). The above information is
believed to be correct but does not purport to be all
inclusive and shall be used only as a guide. The
information in this document is based on the present
state of our knowledge and is applicable to the
product with regard to appropriate safety precautions.
It does not represent any guarantee of the properties
of the product. American Elements shall not be held
liable for any damage resulting from handling or from
contact with the above product. See reverse side of
invoice or packing slip for additional terms and
conditions of sale. COPYRIGHT 1997-2022
AMERICAN ELEMENTS. LICENSED GRANTED TO
MAKE UNLIMITED PAPER COPIES FOR INTERNAL
USE ONLY.
