

Safety Data Sheet
acc. to OSHA HCS

07/13/2016

Reviewed on 07/13/2016

1 Identification

- **Product identifier**
- **Trade name:** Chromic Acetate Solution
- **Article number:** 35420
- **Application of the substance / the mixture** Catalyst
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
McGean-Rohco, Inc.
2910 Harvard Ave.
Cleveland, OH 44105
USA
216-441-4900
msds.info@mcgean.com
- **Information department:** Environmental, Health, and Safety
- **Emergency telephone number:** Chemtrec: 800-424-9300 or 703-527-3887

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.

- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS05

- **Signal word** Danger
- **Hazard-determining components of labeling:**
acetic acid
- **Hazard statements**
H314 Causes severe skin burns and eye damage.
- **Precautionary statements**
P260 Do not breathe dusts or mists.
P280 Wear eye protection / face protection.

(Contd. on page 2)



SAFETY DATA SHEET

Safety Data Sheet
acc. to OSHA HCS

07/13/2016

Reviewed on 07/13/2016

Trade name: **Chromic Acetate Solution**

(Contd. of page 1)

- P264 Wash thoroughly after handling.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER/doctor.
- P321 Specific treatment (see on this label).
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P363 Wash contaminated clothing before reuse.
- P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
1066-30-4	chromium triacetate	50-85%
64-19-7	acetic acid	10-20%

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.

(Contd. on page 3)



SAFETY DATA SHEET

Safety Data Sheet
acc. to OSHA HCS

07/13/2016

Reviewed on 07/13/2016

Trade name: **Chromic Acetate Solution**

(Contd. of page 2)

- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

· Components with limit values that require monitoring at the workplace:	
1066-30-4 chromium triacetate	
PEL-TWA	Long-term value: 0.5 mg/m ³ Chromium (III) compounds as cr
64-19-7 acetic acid	
PEL	Long-term value: 25 mg/m ³ , 10 ppm

(Contd. on page 4)

Safety Data Sheet
acc. to OSHA HCS

07/13/2016

Reviewed on 07/13/2016

Trade name: Chromic Acetate Solution

(Contd. of page 3)

REL	Short-term value: 37 mg/m ³ , 15 ppm Long-term value: 25 mg/m ³ , 10 ppm
TLV	Short-term value: 37 mg/m ³ , 15 ppm Long-term value: 25 mg/m ³ , 10 ppm

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

(Contd. on page 5)



SAFETY DATA SHEET

Safety Data Sheet
acc. to OSHA HCS

07/13/2016

Reviewed on 07/13/2016

Trade name: *Chromic Acetate Solution*

(Contd. of page 4)

9 Physical and chemical properties

· Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	Liquid
Color:	Dark green
· Odor:	Pungent
· Odor threshold:	Not determined.
· pH-value at 20 °C (68 °F):	2.5
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	115 °C (239 °F)
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	485 °C (905 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	4.0 Vol %
Upper:	17.0 Vol %
· Vapor pressure at 20 °C (68 °F):	23 hPa (17 mm Hg)
· Density at 20 °C (68 °F):	1.29 g/cm ³ (10.765 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible.
· Partition coefficient (n-octanol/water): Not determined.	
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	10.0 %

(Contd. on page 6)



SAFETY DATA SHEET

Safety Data Sheet
acc. to OSHA HCS

07/13/2016

Reviewed on 07/13/2016

Trade name: **Chromic Acetate Solution**

(Contd. of page 5)

VOC content:	10.0 % 129.0 g/l / 1.08 lb/gl
Solids content:	50.0 %
Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
- **Carcinogenic categories**

IARC (International Agency for Research on Cancer)
None of the ingredients is listed.

NTP (National Toxicology Program)
None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

(Contd. on page 7)



SAFETY DATA SHEET

Safety Data Sheet
acc. to OSHA HCS

07/13/2016

Reviewed on 07/13/2016

Trade name: **Chromic Acetate Solution**

(Contd. of page 6)

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· UN-Number	
· DOT, ADN, IMDG, IATA	Not Regulated for Transport
· UN proper shipping name	
· DOT, ADN, IMDG, IATA	Not Regulated for Transport
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA	
· Class	Not Regulated for Transport
· Packing group	
· DOT, IMDG, IATA	Not Regulated for Transport
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	Not Regulated for Transport

(Contd. on page 8)

Safety Data Sheet
acc. to OSHA HCS

07/13/2016

Reviewed on 07/13/2016

Trade name: Chromic Acetate Solution

(Contd. of page 7)

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

<ul style="list-style-type: none"> · Section 355 (extremely hazardous substances):
<p style="margin-left: 20px;">None of the ingredients is listed.</p>

<ul style="list-style-type: none"> · Section 313 (Specific toxic chemical listings): 		
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border-right: 1px solid black; padding: 2px;">1066-30-4</td> <td style="padding: 2px;">chromium triacetate</td> </tr> </table>	1066-30-4	chromium triacetate
1066-30-4	chromium triacetate	

<ul style="list-style-type: none"> · TSCA (Toxic Substances Control Act):
<p style="margin-left: 20px;">All ingredients are listed.</p>

- **Proposition 65**

<ul style="list-style-type: none"> · Chemicals known to cause cancer:
<p style="margin-left: 20px;">None of the ingredients is listed.</p>

<ul style="list-style-type: none"> · Chemicals known to cause reproductive toxicity for females:
<p style="margin-left: 20px;">None of the ingredients is listed.</p>

<ul style="list-style-type: none"> · Chemicals known to cause reproductive toxicity for males:
<p style="margin-left: 20px;">None of the ingredients is listed.</p>

<ul style="list-style-type: none"> · Chemicals known to cause developmental toxicity:
<p style="margin-left: 20px;">None of the ingredients is listed.</p>

- **Carcinogenic categories**

<ul style="list-style-type: none"> · EPA (Environmental Protection Agency) 			
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border-right: 1px solid black; padding: 2px;">1066-30-4</td> <td style="padding: 2px;">chromium triacetate</td> <td style="padding: 2px; text-align: right;">A(inh), D(oral), K/L(inh), CBD(oral)</td> </tr> </table>	1066-30-4	chromium triacetate	A(inh), D(oral), K/L(inh), CBD(oral)
1066-30-4	chromium triacetate	A(inh), D(oral), K/L(inh), CBD(oral)	

<ul style="list-style-type: none"> · TLV (Threshold Limit Value established by ACGIH) 			
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border-right: 1px solid black; padding: 2px;">1066-30-4</td> <td style="padding: 2px;">chromium triacetate</td> <td style="padding: 2px; text-align: right;">A1</td> </tr> </table>	1066-30-4	chromium triacetate	A1
1066-30-4	chromium triacetate	A1	

<ul style="list-style-type: none"> · NIOSH-Ca (National Institute for Occupational Safety and Health) 		
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; border-right: 1px solid black; padding: 2px;">1066-30-4</td> <td style="padding: 2px;">chromium triacetate</td> </tr> </table>	1066-30-4	chromium triacetate
1066-30-4	chromium triacetate	

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS05

- **Signal word** Danger

- **Hazard-determining components of labeling:**
acetic acid

(Contd. on page 9)



SAFETY DATA SHEET

Page 9/9

Safety Data Sheet
acc. to OSHA HCS

07/13/2016

Reviewed on 07/13/2016

Trade name: Chromic Acetate Solution

(Contd. of page 8)

· **Hazard statements**

H314 Causes severe skin burns and eye damage.

· **Precautionary statements**

P260 Do not breathe dusts or mists.

P280 Wear eye protection / face protection.

P264 Wash thoroughly after handling.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P363 Wash contaminated clothing before reuse.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Environment Health and Safety

· **Contact:** Darla Rivera

· **Date of preparation / last revision** 07/13/2016 / 6

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Eye Dam. 1: Serious eye damage/eye irritation – Category 1