

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date 06.05.2018

Revision: 06.05.2018

1 Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: Ultrachromate 300**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
Protective coating
Corrosion inhibitors
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
UC300 LLC / Olympic Scientific INC
4246 24th Ave W
Seattle, WA 98199
Phone: (206) 623-5998
Email: Olysci@yahoo.com
- **1.4 Emergency telephone number:**
ChemTel Inc.
(800)255-3924, +1 (813)248-0585

2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The following classifications are applicable only to the general GHS regulations and not the specific CLP regulation: H313, H360.
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H335-H336, H360FD, H400, H410.



H360: May damage fertility or the unborn child



skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 2 H330 Fatal if inhaled.



health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.

Repr. 1B H360FD May damage fertility. May damage the unborn child.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

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corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.



environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



T+; Very toxic

R26: Very toxic by inhalation.



T; Toxic

R45-46-60-61-25-48/23: May cause cancer. May cause heritable genetic damage. May impair fertility. May cause harm to the unborn child. Toxic if swallowed. Toxic: danger of serious damage to health by prolonged exposure through inhalation.



C; Corrosive

R34: Causes burns.



Xn; Harmful

R21: Harmful in contact with skin.



Xn; Sensitising

R42/43: May cause sensitisation by inhalation and skin contact.



Xi; Irritant

R37: Irritating to respiratory system.



N; Dangerous for the environment

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

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- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



This pictogram only applicable for EU regulations. Not for use in the United States (OSHA GHS).



GHS05 GHS06 GHS08 GHS09

- **Signal word** Danger

- **Hazard-determining components of labelling:**

sodium dichromate anhydrate

- **Hazard statements**

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H335-H336, H360FD, H400, H410.

The following Hazard Statements are applicable only to the general GHS regulations and not the specific CLP regulation: H313, H360.

H360 May damage fertility or the unborn child.

H301 Toxic if swallowed.

H330 Fatal if inhaled.

H314 Causes severe skin burns and eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H340 May cause genetic defects.

H350 May cause cancer.

H360FD May damage fertility. May damage the unborn child.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

H372 Causes damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

- **Precautionary statements**

P284 Wear respiratory protection.

P281 Use personal protective equipment as required.

P264 Wash thoroughly after handling.

P260 Do not breathe mist/vapours/spray.

P314 Get medical advice/attention if you feel unwell.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

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

· **Additional information:**

Restricted to professional users.

· **Hazard description:**

· **WHMIS-symbols:**

D1A - Very toxic material causing immediate and serious toxic effects

D2A - Very toxic material causing other toxic effects

E - Corrosive material



· **NFPA ratings (scale 0 - 4)**



Health = 4

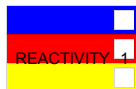
Fire = 0

Reactivity = 1

· **HMIS-ratings (scale 0 - 4)**

*4 Health = *4

0 Fire = 0



Reactivity = 1

* - Indicates a long term health hazard from repeated or prolonged exposures.

· **HMIS Long Term Health Hazard Substances**

7664-93-9	sulphuric acid
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· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **3.2 Mixtures**

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

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· Dangerous components:

CAS: 10588-01-9 EINECS: 234-190-3 Index number: 024-004-00-7	sodium dichromate anhydrate T+ R26; T Carc. Cat. 2, Muta. Cat. 2, Repr. Cat. 2 R45-46-60-61-25-48/23; C R34; Xn R21; Xn R42/43; O R8; N R50/53 Ox. Sol. 2, H272 Acute Tox. 3, H301; Acute Tox. 2, H330 Resp. Sens. 1, H334; Muta. 1B, H340; Carc. 1B, H350; Repr. 1B, H360FD; STOT RE 1, H372 Skin Corr. 1B, H314 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H312; Skin Sens. 1, H317	25-50%
CAS: 7664-93-9 EINECS: 231-639-5 Index number: 016-020-00-8	sulphuric acid C R35 Skin Corr. 1A, H314	< 2,5%
CAS: 7697-37-2 EINECS: 231-714-2 Index number: 007-004-00-1	nitric acid C R35; O R8 Ox. Liq. 3, H272 Skin Corr. 1A, H314	< 2,5%
CAS: 64-19-7 EINECS: 200-580-7 Index number: 607-002-00-6	acetic acid C R35 R10 Flam. Liq. 3, H226 Skin Corr. 1A, H314	< 2,5%
CAS: 7664-38-2 EINECS: 231-633-2 Index number: 015-011-00-6	phosphoric acid C R34 Skin Corr. 1B, H314	< 2,5%

· SVHC

10588-01-9 | sodium dichromate anhydrate

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· 4.1 Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing equipment only after contaminated clothing have been completely removed.

Take affected persons out into the fresh air.

· After inhalation:

Call a doctor immediately.

Supply fresh air or oxygen; call for doctor.

Provide oxygen treatment if affected person has difficulty breathing.

Do not use mouth to mouth or mouth to nose resuscitation.

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- **After skin contact:**

Immediately remove any clothing soiled by the product.
Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice.

Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.
Seek immediate medical help for blistering or open wounds.

- **After eye contact:**

Protect unharmed eye.
Rinse opened eye for several minutes under running water.
Remove contact lenses if worn, if possible.
Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing:**

Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.

- **4.2 Most important symptoms and effects, both acute and delayed**

Asthma attacks
Headache
Breathing difficulty
Coughing
Allergic reactions
Strong caustic effect on skin and mucous membranes.
Danger of severe eye injury.
Dizziness Thirst
Disorientation
Unconsciousness

- **Hazards**

Danger of gastric perforation.
Danger of impaired breathing.
Danger of severe eye injury.
May damage fertility or the unborn child.
Carcinogenic.
May cause harm to breast-fed children.
Danger of serious damage to health by prolonged exposure.
Danger of convulsion.
Causes damage to organs through prolonged or repeated exposure.
Possible risk of irreversible effects.

- **4.3 Indication of any immediate medical attention and special treatment needed**

Contains chromate salt.
Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.
Contains sodium dichromate anhydrate. May produce an allergic reaction.

5 Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet

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- **5.2 Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
Wear fully protective suit.
- **Additional information** No further relevant information available.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Isolate area and prevent access.
- **6.2 Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
Prevent from spreading (e.g. by damming-in or oil barriers).
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use calcium oxide as a neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **6.4 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

- **7.1 Precautions for safe handling**
Prevent formation of aerosols.
Work only in fume cupboard.
Waste air is to be released into the atmosphere only via suitable separators.
Avoid splashes or spray in enclosed areas.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Provide ventilation for receptacles.
Store only in the original receptacle.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from metals.

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- Store away from reducing agents.
Do not store together with alkalis (caustic solutions).
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Keep container tightly sealed.
 - **7.3 Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

Ingredients with limit values that require monitoring at the workplace:

10588-01-9 sodium dichromate anhydrate

PEL (USA)	Long-term value: 0,005* mg/m ³ Ceiling limit: 0,1** mg/m ³ *as Cr(VI) **as CrO ₃ ; see 29 CFR 1910,1026
REL (USA)	Long-term value: 0,001 mg/m ³ as Cr; See Pocket Guide Apps. A and C
TLV (USA)	Long-term value: 0,05 mg/m ³ as Cr; BEI
EL (Canada)	Short-term value: 0,1 mg/m ³ Long-term value: 0,025 mg/m ³ as Cr; ACGIH A1, IARC 1

7664-93-9 sulphuric acid

IOELV (EU)	Long-term value: 0,05 mg/m ³
PEL (USA)	Long-term value: 1 mg/m ³
REL (USA)	Long-term value: 1 mg/m ³
TLV (USA)	Long-term value: 0,2* mg/m ³ *as thoracic fraction
EL (Canada)	Long-term value: 0,2 mg/m ³ ACGIH A2; IARC 1
EV (Canada)	Long-term value: 0,2 mg/m ³

7697-37-2 nitric acid

IOELV (EU)	Short-term value: 2,6 mg/m ³ , 1 ppm
PEL (USA)	Long-term value: 5 mg/m ³ , 2 ppm
REL (USA)	Short-term value: 10 mg/m ³ , 4 ppm Long-term value: 5 mg/m ³ , 2 ppm
TLV (USA)	Short-term value: 10 mg/m ³ , 4 ppm Long-term value: 5,2 mg/m ³ , 2 ppm
EL (Canada)	Short-term value: 4 ppm Long-term value: 2 ppm

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EV (Canada)	Short-term value: 10 mg/m ³ , 4 ppm Long-term value: 5 mg/m ³ , 2 ppm
64-19-7 acetic acid	
IOELV (EU)	Long-term value: 25 mg/m ³ , 10 ppm
PEL (USA)	Long-term value: 25 mg/m ³ , 10 ppm
REL (USA)	Short-term value: 37 mg/m ³ , 15 ppm Long-term value: 25 mg/m ³ , 10 ppm
TLV (USA)	Short-term value: 37 mg/m ³ , 15 ppm Long-term value: 25 mg/m ³ , 10 ppm
EL (Canada)	Short-term value: 15 ppm Long-term value: 10 ppm
EV (Canada)	Short-term value: 37 mg/m ³ , 15 ppm Long-term value: 25 mg/m ³ , 10 ppm
7664-38-2 phosphoric acid	
IOELV (EU)	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³
PEL (USA)	Long-term value: 1 mg/m ³
REL (USA)	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³
TLV (USA)	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³
EL (Canada)	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³
EV (Canada)	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.

Ingredients with biological limit values:
10588-01-9 sodium dichromate anhydrate

BEI (USA)	25 µg/L Medium: urine Time: end of shift at end of workweek Parameter: Total chromium (fume)
	10 µg/L Medium: urine Time: increase during shift Parameter: Total chromium (fume)

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.

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Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Pregnant women should strictly avoid inhalation or skin contact.
Shower or take a bath at the end of work.

- **Respiratory protection:**



Respiratory protection required.

- **Protection of hands:**



Protective gloves

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

Contact lenses should not be worn.



Safety glasses

Face protection

- **Body protection:**

Wear appropriate protective faceshield, airline supplied mask or hood or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Full head, face and neck protection

Acid resistant protective clothing

- **Limitation and supervision of exposure into the environment**

No further relevant information available.

- **Risk management measures**

See Section 7 for additional information

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No further relevant information available.

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9 Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Liquid
Colour: Dark orange colour

· Odour: Acidic

· Odour threshold: Not determined.

· pH-value at 20 °C: < 1

· Change in condition

Melting point/Melting range: Not Determined.

Boiling point/Boiling range: 212 ° F / 100 °C

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not applicable.

· Auto/Self-ignition temperature: Not determined.

· Decomposition temperature: Not determined.

· Self-igniting: Product is not self-igniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined.

Upper: Not determined.

· Vapour pressure at 20 °C: 23 hPa

· Density at 20 °C: 1,1 g/cm³

· Relative density: Not determined.

· Vapour density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with water:

Soluble.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

· 9.2 Other information: No further relevant information available.

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10 Stability and reactivity

- **10.1 Reactivity**

- **10.2 Chemical stability**

- **Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

- **10.3 Possibility of hazardous reactions**

Reacts with various metals.

Develops corrosive gases/fumes.

Toxic fumes may be released if heated above the decomposition point.

May produce violent reactions with bases and numerous organic substances including alcohols and amines.

Violent reactions with strong alkalis and oxidizing agents.

Reacts with aldehydes.

Reacts with alkali, amines and strong acids.

- **10.4 Conditions to avoid** Store away from oxidizing agents.

- **10.5 Incompatible materials:** No further relevant information available.

- **10.6 Hazardous decomposition products:**

Toxic metal compounds

Toxic metal oxide smoke

Sulphur oxides (SO_x)

Nitrogen oxides (NO_x)

Hydrogen

11 Toxicological information

- **11.1 Information on toxicological effects**

- **Acute toxicity:**

- **Primary irritant effect:**

- **on the skin:** Strong caustic effect on skin and mucous membranes.

- **on the eye:** Strong caustic effect.

- **Sensitization:**

Sensitization possible through inhalation.

Sensitization possible through skin contact.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Corrosive

Irritant

Very toxic

Danger through skin adsorption.

Toxic if inhaled.

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Carcinogenic.

The product can cause inheritable damage.

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- Toxic and/or corrosive effects may be delayed up to 24 hours.
- May cause genetic defects.
- May damage fertility or the unborn child.
- **Sensitisation:**
 - Sensitization possible by skin contact.
 - Sensitization possible by inhalation and/or dermal contact.
- **Repeated dose toxicity:**
 - May cause damage to organs through prolonged or repeated exposure.
 - Repeated exposures may result in skin and/or respiratory sensitivity.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
 - Muta. 1B, Carc. 1B, Repr. 1B

12 Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** Toxic for aquatic organisms
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**
 - Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
 - Do not allow product to reach ground water, water course or sewage system, even in small quantities.
 - Danger to drinking water if even extremely small quantities leak into the ground.
 - The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary
 - Also poisonous for fish and plankton in water bodies.
 - Very toxic for aquatic organisms
 - Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
 - Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

13 Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
 - Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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Hand over to hazardous waste disposers.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water only.

14 Transport information

- **14.1 UN-Number**
 - **DOT, ADR, IMDG, IATA**
 - **14.2 UN proper shipping name**
 - **DOT**
 - **ADR**
 - **IMDG**
 - **IATA**
 - **14.3 Transport hazard class(es)**
- UN3289
- Toxic liquid, corrosive, inorganic, n.o.s. (sodium dichromate anhydrate, Sulfuric acid)
- 3289 TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S. (sodium dichromate anhydrate, SULPHURIC ACID), ENVIRONMENTALLY HAZARDOUS
- TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S. (sodium dichromate anhydrate, SULPHURIC ACID), MARINE POLLUTANT
- TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S. (sodium dichromate anhydrate, SULPHURIC ACID)

- **DOT**



- **Class**
 - **Label**
- 6.1 Toxic substances.
6.1+8

- **ADR**



- **Class**
 - **Label**
- 6.1 (TC3) Toxic substances.
6.1+8

- **IMDG**



- **Class**
- 6.1 Toxic substances.

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· Label	6.1+8
· IATA	
	
· Class	6.1 Toxic substances.
· Label	6.1+8
· 14.4 Packing group	
· DOT, ADR, IMDG, IATA	II
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: sodium dichromate anhydrate
· Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Toxic substances.
· Danger code (Kemler):	68
· EMS Number:	F-A,S-B
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	100 ml
· Transport category	2
· Tunnel restriction code	D/E
· UN "Model Regulation":	UN3289, TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S. (sodium dichromate anhydrate, SULPHURIC ACID), ENVIRONMENTALLY HAZARDOUS, 6.1 (8), II

15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

- **Section 355 (extremely hazardous substances):**

7664-93-9	sulphuric acid
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7697-37-2	nitric acid
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- **Section 313 (Specific toxic chemical listings):**

10588-01-9	sodium dichromate anhydrate
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7664-38-2	phosphoric acid
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7664-93-9	sulphuric acid
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7697-37-2	nitric acid
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· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65 (California):**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

10588-01-9 sodium dichromate anhydrate

· **Chemicals known to cause reproductive toxicity for males:**

10588-01-9 sodium dichromate anhydrate

· **Chemicals known to cause developmental toxicity:**

10588-01-9 sodium dichromate anhydrate

· **Carcinogenic Categories**

· **EPA (Environmental Protection Agency)**

10588-01-9 sodium dichromate anhydrate A(inh), D(oral), K/L(inh), CBD(oral)

· **IARC (International Agency for Research on Cancer)**

10588-01-9 sodium dichromate anhydrate 1

7664-93-9 sulphuric acid 1

· **TLV (Threshold Limit Value established by ACGIH)**

10588-01-9 sodium dichromate anhydrate A1

7664-93-9 sulphuric acid A2

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

10588-01-9 sodium dichromate anhydrate

· **Canada**

· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

10588-01-9 sodium dichromate anhydrate

7664-38-2 phosphoric acid

7664-93-9 sulphuric acid

7697-37-2 nitric acid

64-19-7 acetic acid

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

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- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

10588-01-9	sodium dichromate anhydrate
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- **15.2 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.

- **Relevant phrases**

H226 Flammable liquid and vapour.
 H272 May intensify fire; oxidiser.
 H301 Toxic if swallowed.
 H312 Harmful in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H330 Fatal if inhaled.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H340 May cause genetic defects.
 H350 May cause cancer.
 H360FD May damage fertility. May damage the unborn child.
 H372 Causes damage to organs through prolonged or repeated exposure.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

R10 Flammable.
 R21 Harmful in contact with skin.
 R25 Toxic if swallowed.
 R26 Very toxic by inhalation.
 R34 Causes burns.
 R35 Causes severe burns.
 R42/43 May cause sensitisation by inhalation and skin contact.
 R45 May cause cancer.
 R46 May cause heritable genetic damage.
 R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R60 May impair fertility.
 R61 May cause harm to the unborn child.
 R8 Contact with combustible material may cause fire.

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 ACGIH: American Conference of Governmental Industrial Hygienists

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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)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Ox. Liq. 3: Oxidising Liquids, Hazard Category 3
Ox. Sol. 2: Oxidising Solids, Hazard Category 2
Acute Tox. 3: Acute toxicity, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Acute Tox. 2: Acute toxicity, Hazard Category 2
Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Muta. 1B: Germ cell mutagenicity, Hazard Category 1B
Carc. 1B: Carcinogenicity, Hazard Category 1B
Repr. 1B: Reproductive toxicity, Hazard Category 1B
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Sources

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com