

## SAFETY DATA SHEET

Preparation Date: 8/20/2015

Revision Date: 8/20/2015

Revision Number: G1

### 1. IDENTIFICATION

**Product identifier**

**Product code:** A1179  
**Product Name:** AMMONIUM DICHROMATE, PURIFIED

**Other means of identification**

**Synonyms:** Ammonium bichromate  
 Dichromic acid, diammonium salt  
 Diammonium dichromate  
 Chromic acid, diammonium salt

**CAS #:** 7789-09-5  
**RTECS #** HX7650000  
**Cl#:** Not available

**Recommended use of the chemical and restrictions on use**

**Recommended use:** In photography. Wood preservation. Treating leather and textiles. Paints. Petroleum Production and Refining. Printing and Lithography.

**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>

**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Martin LaBenz (West Coast)  
**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Gases)	Category 2
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive toxicity	Category 1B

Specific target organ toxicity (repeated exposure)	Category 1
Oxidizing solids	Category 2

### Label elements

#### **Danger**

#### **Hazard statements**

Toxic if swallowed  
Harmful in contact with skin  
Fatal if inhaled  
Causes severe skin burns and eye damage  
May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause an allergic skin reaction  
May cause genetic defects  
May cause cancer  
May damage fertility or the unborn child  
Causes damage to organs through prolonged or repeated exposure  
May intensify fire; oxidizer



#### **Hazards not otherwise classified (HNOC)**

Not Applicable

#### **Other hazards**

Not available

### Precautionary Statements - Prevention

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Do not breathe dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Wear respiratory protection  
In case of inadequate ventilation wear respiratory protection  
Contaminated work clothing should not be allowed out of the workplace  
Wear protective gloves  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Keep/Store away from clothing/ .? /combustible materials  
Take any precaution to avoid mixing with combustibles .?

### Precautionary Statements - Response

*Specific treatment (see .? on this label)*  
*Specific measures (see .? on this label)*  
*Specific treatment is urgent (see .? on this label)*  
*Immediately call a POISON CENTER or doctor/physician*  
*Specific treatment (see .? on this label)*  
IN CASE OF FIRE: Use water to extinguish. Do not use dry chemicals or foams. CO<sub>2</sub> or Halon may provide limited control.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.  
Call a POISON CENTER or doctor/physician if you feel unwell  
Wash contaminated clothing before reuse  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
If skin irritation or rash occurs: Get medical advice/attention  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
Rinse mouth  
Do NOT induce vomiting

### Precautionary Statements - Storage

Store locked up  
Store in a well-ventilated place. Keep container tightly closed

### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
Ammonium Dichromate 7789-09-5	7789-09-5	100	*

## 4. FIRST AID MEASURES

### First aid measures

#### General Advice:

Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.

## 4. FIRST AID MEASURES

<b>Skin Contact:</b>	Toxic in contact with skin. Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.
<b>Eye Contact:</b>	Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.
<b>Inhalation:</b>	Toxic by inhalation. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
<b>Ingestion:</b>	Toxic if swallowed. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

### **Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	Fatal if inhaled. Toxic if swallowed. Harmful in contact with skin. Causes skin and eye burns. Causes damage to organs through prolonged or repeated exposure. May damage fertility or the unborn child. May cause sensitization by inhalation and skin contact. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. May cause cancer. May cause heritable genetic damage in humans. May cause respiratory irritation. May cause irritation to mucous membranes. May cause chemical burns to the respiratory tract. It may affect the kidneys. Renal failure. It may affect the blood. May affect the liver. Chronic exposure may affect liver, kidneys/urinary system, and blood.
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### **Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician:</b>	Treat symptomatically
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### **Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

## 5. FIRE-FIGHTING MEASURES

### **Extinguishing Media**

<b>Suitable Extinguishing Media:</b>	Water. CO2 may be of no value in extinguishing fires involving oxidizers and may only provide limited control.
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<b>Unsuitable Extinguishing Media:</b>	CO2. Dry chemical. Foam. Halons.
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### **Specific hazards arising from the chemical**

<b>Hazardous Combustion Products:</b>	Ammonia, Chromic oxides, Nitrogen oxides
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<b>Specific hazards:</b>	Oxidizer. Keep away from combustible materials (wood, paper, oil, clothing, etc.) The product is not flammable, but it may cause fire when in contact with other material Contact with combustible or organic materials may cause fire Will accelerate burning when involved in a fire Container explosion may occur under fire conditions or when heated
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### **Special Protective Actions for Firefighters**

<b>Specific Methods:</b>	For large fires, flood fire area with water from a distance. Cool affected containers with flooding quantities of water. Do not get water inside containers. DO NOT use combustible materials such as sawdust.
<b>Special Protective Equipment for Firefighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions:** Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Avoid dust formation. Remove all sources of ignition. Keep combustibles (wood, paper, oil, clothing, etc.) away from spilled material.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers.

### Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up** Sweep up and shovel. Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Do not use combustible materials such as paper towels, sawdust, clothing, etc. to clean up spill. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from open flames, hot surfaces and sources of ignition. Keep away from incompatible materials. All equipment used when handling the product must be grounded.

**Safe Handling Advice**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Use only in well-ventilated areas. Do not breathe vapours/dust. Do not ingest. When using do not smoke. Keep away from combustible material. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Do not store near combustible materials. Store at room temperature in the original container. Store away from incompatible materials. Store in a segregated and approved area.

**Incompatible Materials:**

Organic materials. Combustible materials. Powdered metals. Reducing agents. Acids. Hydrazine. Strong bases. Carbides. Alcohols. Ethylene glycol. Mercury cyanide.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

## National occupational exposure limits

### United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Ammonium Dichromate 7789-09-5	0.1 mg/m <sup>3</sup> Ceiling 5 ug/m <sup>3</sup> TWA	0.0002 mg/m <sup>3</sup> TWA (as Cr)	0.05 mg/m <sup>3</sup> TWA	None

### Canada

Components	Alberta	British Columbia	Ontario	Quebec
Ammonium Dichromate 7789-09-5	0.05 mg/m <sup>3</sup> TWA (as Cr)	0.1 mg.m <sup>3</sup> Ceiling (as Cr) 0.025 mg/m <sup>3</sup> TWA (as Cr)	0.05 mg/m <sup>3</sup> TWA (as Cr)	0.05 mg/m <sup>3</sup> TWAEV (as Cr)

### Australia and Mexico

Components	Australia	Mexico
Ammonium Dichromate 7789-09-5	0.05 mg/m <sup>3</sup> TWA (as Cr)	0.05 mg/m <sup>3</sup> TWA 0.5 mg/m <sup>3</sup> TWA LMPE-PPT

## Appropriate engineering controls

### Engineering measures to reduce exposure:

Ensure adequate ventilation, especially in confined areas. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

## Individual protection measures, such as personal protective equipment

### Personal Protective Equipment

- Eye protection:** Goggles.
- Skin and body protection:** Long sleeved clothing. Chemical resistant apron. Gloves.
- Respiratory protection:** Be sure to use an approved/certified respirator or equivalent.. Wear respirator with dust filter.
- Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b> Solid.	<b>Appearance:</b> Crystalline powder. Crystals.	<b>Color:</b> Orange. Red.
<b>Odor:</b> Odorless.	<b>Taste</b> No information available	<b>Formula:</b> (NH <sub>4</sub> ) <sub>2</sub> CrO <sub>7</sub>
<b>Molecular/Formula weight:</b> 252.10 g/mol	<b>Flammability:</b> Oxidizer	<b>Flash point (°C):</b> No data available
<b>Flashpoint (°C/°F):</b> No information available.	<b>Flash Point Tested according to:</b> Not available	<b>Autoignition Temperature (°C/°F):</b> 190-225°C/374-437°F 218°C/424°F
<b>Lower Explosion Limit (%):</b> No information available	<b>Upper Explosion Limit (%):</b> No information available	<b>pH:</b> 3.95 (1%) 3.45 (10%)
<b>Melting point/range(°C/°F):</b> 170°C/338°F	<b>Boiling point/range(°C/°F):</b> No information available	<b>Decomposition temperature(°C/°F):</b> 180°C/356°F
<b>Bulk density:</b> 1000 kg/m <sup>3</sup>	<b>Density (g/cm<sup>3</sup>):</b> 2.15	<b>Specific gravity:</b> No information available
<b>Vapor pressure @ 20°C (kPa):</b> No information available	<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> 8.7
<b>VOC content (g/L):</b> No information available	<b>Odor threshold (ppm):</b> No information available	<b>Partition coefficient (n-octanol/water):</b> No information available
<b>Viscosity:</b> No information available	<b>Miscibility:</b> No information available	<b>Solubility:</b> Soluble in Water Soluble in Alcohol Insoluble in Acetone

## 10. STABILITY AND REACTIVITY

### Reactivity

Oxidizer. Reacts with reducing agents, organic material, combustible materials, and powdered metals  
Incompatible with strong bases, hydrazine, carbide, acids, alcohols, ethylene glycol, and mercury cyanide

### Chemical stability

**Stability:** Stable under recommended storage conditions

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Avoid dust formation. Contact with combustible materials (wood, paper, oil, clothing, etc.). Incompatible materials.

**Incompatible Materials:** Organic materials. Combustible materials. Powdered metals. Reducing agents. Acids. Hydrazine. Strong bases. Carbides. Alcohols. Ethylene glycol. Mercury cyanide.

**Hazardous decomposition products:** Ammonia. Chromium oxides. Nitrogen oxides (NO<sub>x</sub>).

### Other Information

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Principal Routes of Exposure:**  
Ingestion. Inhalation. Skin. Eyes.

### Acute Toxicity

### Component Information

*Ammonium Dichromate - 7789-09-5*

**LD50/oral/rat** = 48 mg/kg Oral LD50 Rat  
80 mg/kg oral LD50 rat  
53 mg/kg oral LD50 rat

**LD50/oral/mouse** = No information available

**LD50/dermal/rat** = No information available

**LD50/dermal/rabbit** = 1640 mg/kg Dermal LD50 Rabbit  
1860 mg/kg dermal LD50 rabbit

**LC50/inhalation/rat** = 0.156 mg/L Inhalation LC50 Rat 4 h  
0.2 mg/L inhalation LC50 rat 4h

**LC50/inhalation/mouse** = No information available

**Other LD50 or LC50 information** = No information available

### Product Information

**LD50/oral/rat** =  
**VALUE- Acute Tox Oral** = 48mg/kg

**LD50/oral/mouse** =  
**Value - Acute Tox Oral** = No information available

**LD50/dermal/rabbit**  
**VALUE-Acute Tox Dermal** = 1640mg/kg

**LD50/dermal/rat**  
**VALUE -Acute Tox Dermal** = No information available

**LC50/inhalation/rat**  
**VALUE-Vapor** = No information available  
**VALUE-Gas** = No information available  
**VALUE-Dust/Mist** = 0.156mg/l (4-hr.)

**LC50/Inhalation/mouse**  
**VALUE-Vapor** = No information available  
**VALUE - Gas** = No information available  
**VALUE - Dust/Mist** = No information available

### Symptoms

**Skin Contact:** Harmful if absorbed through skin. Causes severe irritation and burns. May cause deep penetrating ulcers of the skin. May cause allergic skin reaction.

**Eye Contact:** Causes severe irritation and burns. Causes serious eye damage.. Eye contact may cause eye corrosion or ulceration.

**Product code:** A1179

**Product name:** AMMONIUM  
DICHROMATE, PURIFIED

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**Inhalation** Fatal if inhaled. May cause irritation of the respiratory tract and mucous membranes irritation. May cause nose, throat, and lung irritation. May cause chemical burns to the respiratory tract.

**Ingestion** Toxic if swallowed. May cause digestive (gastrointestinal) tract irritation. May affect the blood. It may affect the kidneys and liver. Symptoms of acute poisoning may include ulceration and corrosion, epigastric pain, nausea, vomiting, diarrhea, vertigo, fever, muscle cramps, hemorrhagic diathesis, toxic nephritis, renal failure, intravascular hemolysis, circulatory collapse, liver damage, peripheral vascular collapse, acute multisystem shock and coma, death depending on the dose.

**Aspiration hazard** No information available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** Chronic poisoning usually results from inhalation or ingestion. May affect the lungs, blood, kidneys and liver. Signs and symptoms may include lacrimation, dermatitis, penetrating ulcers, perforation of nasal septum, asthma, pneumonia, pulmonary edema, congestion, chronic rhinitis, polyps of the upper respiratory tract, inflammation of the lung, emphysema, tracheitis, bronchitis, pharyngitis, adhesions of the diaphragm, inflammation of larynx, conjunctivitis, loss of appetite, nausea, vomiting, inflammation of liver or even acute hepatitis with jaundice, respiratory irritations, leukocytosis, leukopenia, monocytosis, and eosinophilia. Prolonged or repeated ingestion may cause allergic dermatitis. Repeated or prolonged skin contact may cause skin sensitization. Prolonged or repeated inhalation may cause respiratory sensitization. Inhalation: May cause allergic respiratory reaction (occupational asthma).

**Sensitization:** May cause sensitization by inhalation and skin contact

**Mutagenic Effects:** May affect genetic material

**Carcinogenic effects:** Carcinogenic.

Components	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Ammonium Dichromate	Group 1 - Carcinogenic to humans - Monograph 49 [1990] Chromium[VI] Supplement 7 [1987] Monograph 23 [1980] Monograph 2 [1973] Monograph 100C [2012]	A1 Confirmed Human Carcinogen	Known Human Carcinogen	Present see 29 CFR 1910.1026	Not listed	Not listed

**Reproductive toxicity** May damage fertility or the unborn child

**Reproductive Effects:** Causes adverse reproductive effects  
May impair fertility

**Developmental Effects:** May cause adverse developmental effects  
**Teratogenic Effects:** No information available

## Specific Target Organ Toxicity

**STOT - single exposure** No information available  
**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure.  
**Target Organs:** Liver. Kidneys. Respiratory system. Lungs.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Ecotoxicity effects:** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

*Ammonium Dichromate - 7789-09-5*

**Freshwater Fish Species Data:** 136 mg/L LC50 96h  
212 mg/L LC50 Mosquito fish 48h  
50 mg/L LC50 Leuciscus idus (Golden orfe) 48h

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available

**Mobility:** No information available

## 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal. Do not re-use empty containers Dispose of as unused product.

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Ammonium Dichromate	None	None	None	None

## 14. TRANSPORT INFORMATION

### DOT

**UN-No:** UN1439  
**Proper Shipping Name:** Ammonium dichromate  
**Hazard Class:** 5.1  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**ERG No:** 141  
**Marine Pollutant** No data available  
**DOT RQ (lbs):** No information available  
**Symbol(s):** R2

## 14. TRANSPORT INFORMATION

### TDG (Canada)

**UN-No:** UN1439  
**Proper Shipping Name:** Ammonium dichromate  
**Hazard Class:** 5.1  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Description:** No information available

### ADR

**UN-No:** UN1439  
**Proper Shipping Name:** Ammonium dichromate  
**Hazard Class:** 5.1  
**Packing Group:** II  
**Subsidiary Risk:** No information available  
**Classification Code:** No information available  
**Description:** No information available  
**CEFIC Tremcard No:** No information available

### IMO / IMDG

**UN-No:** UN1439  
**Proper Shipping Name:** Ammonium dichromate  
**Hazard Class:** 5.1  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Description:** No information available  
**IMDG Page:** No information available  
**Marine Pollutant:** No information available  
**EMS:** F-H  
**MFAG:** No information available  
**Maximum Quantity:** No information available

### RID

**UN-No:** UN1439  
**Proper Shipping Name:** Ammonium dichromate  
**Hazard Class:** 5.1  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Classification Code:** No information available  
**Description:** No information available

### ICAO

**UN-No:** UN1439  
**Proper Shipping Name:** Ammonium dichromate  
**Hazard Class:** 5.1  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Description:** No information available

### IATA

**UN-No:** UN1439  
**Proper Shipping Name:** Ammonium dichromate  
**Hazard Class:** 5.1  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**ERG Code:** 5L  
**Description:** No information available

## 15. REGULATORY INFORMATION

### International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Ammonium Dichromate</i>	Present	Present KE-01653	Present	Present (1)-273	Present	Present	Present 232-143-1

### U.S. Regulations

#### *Ammonium Dichromate*

**Massachusetts RTK:** Present

**New Jersey RTK Hazardous Substance List:** 0097

3575

2245

**New Jersey (EHS) List:** 2245 500 lb TPQ

**New Jersey - Discharge Prevention - List of Hazardous Substances:** Present

**Pennsylvania RTK:** Environmental hazard

**Pennsylvania RTK - Environmental Hazard List** Present

**Pennsylvania RTK - Special Hazardous Substances** Present

**Minnesota - Hazardous Substance List:** Carcinogen (as Cr)

**New York Release Reporting - List of Hazardous Substances:**

10 lb RQ

**Louisiana Reportable Quantity List for Pollutants:** 10lbfinal RQ

4.54kgfinal RQ

**California Directors List of Hazardous Substances:** Present

### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### **Chemicals Known to the State of California to Cause Cancer:**

WARNING: This product contains a chemical known to the State of California to cause cancer. (See table below)

#### **Chemicals Known to the State of California to Cause Reproductive Toxicity:**

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
<i>Ammonium Dichromate</i>	carcinogen	developmental toxicity	male reproductive toxicity	female reproductive toxicity

### CERCLA/SARA

Components	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting <i>de minimis</i>
<i>Ammonium Dichromate</i>	10 lb final RQ 4.54 kg final RQ	None	None	None	0.1% de minimis concentration

### U.S. TSCA

Components	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
<i>Ammonium Dichromate</i>	Not Applicable	Not Applicable

### Canada

#### **WHMIS hazard class:**

C Oxidizing materials

D1A Very toxic materials

D2A Very toxic materials

D2B Toxic materials

**Ammonium Dichromate**

C D1A D2A D2B

**Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Ammonium Dichromate	1 %

**Inventory**

Components	Canada (DSL)	Canada (NDSL)
Ammonium Dichromate	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Ammonium Dichromate	Present	Not listed

**EU Classification****R-phrase(s)**

- R 2 - Risk of explosion by shock, friction, fire or other sources of ignition.
- R 8 - Contact with combustible material may cause fire.
- R21 - Harmful in contact with skin.
- R25 - Toxic if swallowed.
- R26 - Very toxic by inhalation.
- R34 - Causes burns.
- R45 - May cause cancer.
- R46 - May cause heritable genetic damage.
- R50 - Very toxic to aquatic organisms.
- R53 - May cause long-term adverse effects in the aquatic environment.
- R60 - May impair fertility.
- R61 - May cause harm to the unborn child.
- R48/23 - Toxic: danger of serious damage to health by prolonged exposure through inhalation.
- R42/43 - May cause sensitization by inhalation and skin contact.

**S -phrase(s)**

- S53 - Avoid exposure - obtain special instructions before use.
- S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S60 - This material and its container must be disposed of as hazardous waste.
- S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.
- S 1/2 - Keep locked up and out of the reach of children.
- S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
- S 7/9 - Keep container tightly closed and in a well-ventilated place.

Components	Classification	Concentration Limits:	Safety Phrases
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Ammonium Dichromate	E; R2 Xn; R21 T; R25-48/23 T+; R26 C; R34 R42/43 Carc.Cat.2; R45 Muta.Cat.2; R46 N; R50-53 Repr.Cat.2; R60-61 O; R8	10%≤C: C; R24 5%≤C<10%: Xi; R36/37/38 0.2%≤C: R42/23	S53 S45 S60 S61
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The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**

E - Explosive.

C - Corrosive.

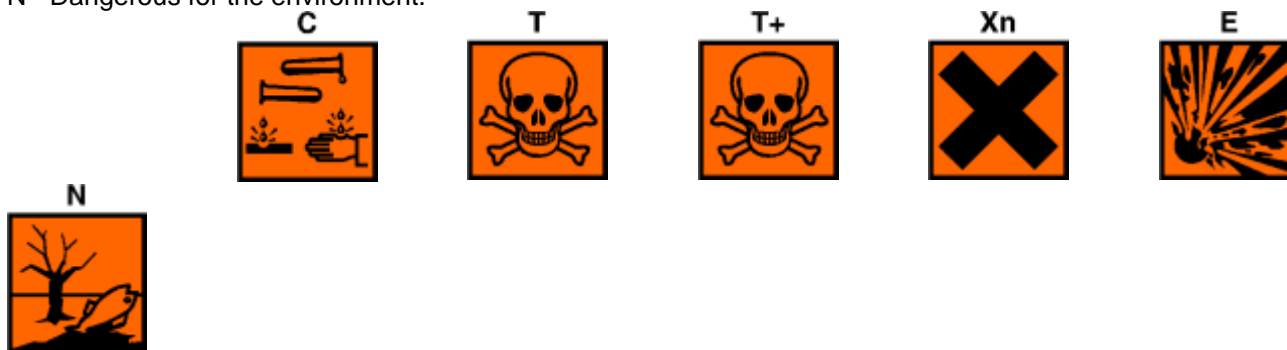
T+ - Very toxic.

T - Toxic

Xn - Harmful.

O - Oxidising.

N - Dangerous for the environment.



**16. OTHER INFORMATION**

## 16. OTHER INFORMATION

**Preparation Date:** 8/20/2015  
**Revision Date:** 8/20/2015  
**Prepared by:** Sonia Owen

**Disclaimer:**

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**End of Safety Data Sheet**