

Safety Data Sheet  
According to the (US) Hazard Communication Standard (29 CFR 1910.1200)

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

<b>Product Name</b>	Potassium Dichromate, 0.100 N	
<b>NCL Catalog Number</b>	<b>P-56</b>	
<b>Product Description</b>	Laboratory chemical	
<b>Manufacturer</b>	NCL of Wisconsin, Inc.	PO Box 8, Birnamwood, WI 54414
	Telephone: 1-800-648-7836	Fax: 715-449-2454
	Email: <a href="mailto:nclabs@nclabs.com">nclabs@nclabs.com</a>	Emergency Contact: 1-800-424-9300 (Chemtrec)

**SECTION 2: HAZARDS IDENTIFICATION**

**GHS Classification**

Respiratory Sensitization	Category 1
Germ Cell Mutagenicity	Category 1B
Carcinogenicity	Category 1B
Reproductive Toxicity	Category 1B
Aquatic Acute	Category 2
Aquatic Chronic	Category 2



**Signal Word** Danger

**Hazard Statements**

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H340	May cause genetic defects.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H411	Toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing mist/vapors/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	Wear respiratory protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container to comply with local, state and federal regulations.

**Other Hazards Not Contributing to the Classification** None under normal conditions.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Chemical Identity</b>	Not applicable
<b>Common Name</b>	Not applicable

**Mixture**

Name	CAS #	Approximate %
Water	7732-18-5	>99.5
Potassium Dichromate	7778-50-9	<0.5

#### SECTION 4: FIRST AID MEASURES

##### Description of First Aid Measures

<b>General First Aid Measures</b>	Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
<b>If Inhaled</b>	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
<b>In Case of Skin Contact</b>	Remove/take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor.
<b>In Case of Eye Contact</b>	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.
<b>If Swallowed</b>	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

##### Most Important Symptoms/Effects Acute and Delayed

<b>Symptoms/Injuries</b>	May cause genetic defects. Suspected of damaging fertility or the unborn child.
<b>After Inhalation</b>	Danger of serious damage to health by prolonged exposure through inhalation. Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause cancer by inhalation.
<b>After Skin Contact</b>	Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.

##### Indication of Immediate Medical Attention and Special Treatment Needed

Seek medical advice if you feel unwell.

#### SECTION 5: FIRE-FIGHTING MEASURES

##### Extinguishing Media

<b>Suitable Extinguishing Media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable Extinguishing Media</b>	Do not use a heavy water stream.

##### Special Hazards Arising from the Chemical

Potassium oxides and chromium oxides.

##### Special Protective Actions for Fire-Fighters

Wear self-contained breathing apparatus and protective clothing. Keep exposed containers cool with water spray. Dilute toxic gases with water spray.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

##### Personal Precautions, Protective Equipment and Emergency Procedures

<b>Personal Precautions</b>	Use personal protective equipment (see section 8). Safety glasses, gloves, gas/dust mask. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation and evacuate personnel to safe areas.
<b>Environmental Precautions</b>	Prevent entry to surface and ground waters.
<b>Methods and Materials for Containment and Cleaning Up</b>	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Ensure compliance with local, state and federal regulations.

#### SECTION 7: HANDLING AND STORAGE

##### Precautions for Safe Handling

Avoid contact with eyes and skin. Avoid breathing vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

**Conditions for Safe Storage  
Including any Incompatibilities**

Keep in original container, tightly closed and stored in a cool, dry, ventilated area.  
Separate from acids, alkalis, reducing agents and combustibles.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****Control Parameters**

Potassium Dichromate (7778-50-9)		
USA ACGIH	ACGIH TLV (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>

**Appropriate Engineering Controls**

Material should be handled or transferred in a fume hood or with equivalent ventilation.  
Maintain eye-wash fountain and quick-drench facilities in work area.

**Individual Protection Measures**

Avoid all unnecessary exposure.

**Eye/Face Protection**

Use chemical safety goggles and/or a full face shield where splashing is possible.  
Contact lenses should not be worn when working with this material. Maintain eye-wash fountain and quick-drench facilities in work area.

**Skin Protection**

Protective gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.

**Respiratory Protection**

Wear appropriate mask.

**Other Information**

Do not eat, drink or smoke when using this product.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State</b>	Liquid
<b>Color</b>	Clear orange
<b>Odor</b>	Slightly acidic
<b>Odor Threshold</b>	Not determined
<b>pH</b>	Not determined
<b>Melting Point/Freezing Point</b>	Not determined
<b>Initial Boiling Point and Boiling Range</b>	Not determined
<b>Flash Point</b>	Not determined
<b>Evaporation Rate</b>	Not determined
<b>Flammability (Solid, Gas)</b>	Not determined
<b>Upper/Lower Flammability/Explosive Limits</b>	Not determined
<b>Vapor Pressure</b>	Not determined
<b>Vapor Density</b>	Not determined
<b>Relative Density</b>	Not determined
<b>Solubility</b>	Soluble in water
<b>Partition Coefficient: n-octanol/water</b>	Not determined
<b>Auto-Ignition Temperature</b>	Not determined
<b>Decomposition Temperature</b>	Not determined
<b>Viscosity</b>	Not determined

**SECTION 10: STABILITY AND REACTIVITY**

<b>Reactivity</b>	No data available
<b>Chemical Stability</b>	Stable under ordinary conditions of use and storage.
<b>Possibility of Hazardous Reactions</b>	May react violently with reducing agents.
<b>Conditions to Avoid</b>	No data available
<b>Incompatible Materials</b>	Highly reactive with metals. Reactive with reducing agents and combustible materials.
<b>Hazardous Decomposition Products</b>	Chromium oxides and potassium oxide

**SECTION 11: TOXICOLOGICAL INFORMATION**

<b>Acute Toxicity</b>	Not classified
<b>Potassium Dichromate (7778-50-9)</b>	
<b>LD50 oral rat</b>	25 mg/kg
<b>LD50 dermal rabbit</b>	14 mg/kg
<b>LC50 inhalation rat (mg/l)</b>	0.088 mg/l – 4 h
<b>Skin Corrosion/Irritation</b>	Not classified
<b>Serious Eye Damage/Irritation</b>	Not classified
<b>Respiratory or Skin Sensitization</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>Germ Cell Mutagenicity</b>	May alter genetic material. In vivo tests showed mutagenic effects.
<b>Carcinogenicity</b>	May cause cancer. <b>IARC:</b> Group 3 Carcinogenic to humans.
<b>Reproductive Toxicity</b>	Suspected of damaging fertility or the unborn child.
<b>Specific Target Organ Toxicity (Single Exposure)</b>	Not classified
<b>Specific Target Organ Toxicity (Repeated Exposure)</b>	Not classified
<b>Aspiration Hazard</b>	Not classified
<b>Potential Adverse Human Health Effects and Symptoms</b>	Not classified
<b>Symptoms/Injuries After Inhalation</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>Symptoms/Injuries After Skin Contact</b>	Not classified
<b>Symptoms/Injuries After Eye Contact</b>	Not classified
<b>Other Information</b>	No additional information.

## SECTION 12: ECOLOGICAL INFORMATION

**Ecology – Water Toxicity** Toxic to aquatic life with long lasting results.

<b>Potassium Dichromate (7778-50-9)</b>	
LC50 fish 1	0.131 mg/l – 96.0 h
Mortality NOEC	6 mg/l – 7.0 d, Pimephales promelas
Mortality NOEC 2	0.016-0.064 mg/l – 7 d
EC50 Daphnia	0.035 mg/l – 48 h, Daphnia Magna.
EC50 Algae	0.31 mg/l – 72 h, Psudokirchneriella subcapitata

**Persistence and Degradability** May cause long-term adverse effects to the environment.

**Bioaccumulative Potential**

<b>Potassium Dichromate (7778-50-9)</b>	
BCF fish 1	200 ug/l – 180 d, Oncorhynchus mykiss
Bioconcentration Factor (BCF)	17.4

**Mobility in Soil** Not established

**Other Adverse Effects** Toxic to aquatic life with long lasting effects. Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Methods of Disposal

**Disposal Recommendations** Dispose of contents/containers in accordance with local, state and federal regulations. Hazardous waste shall not be mixed together with other waste.

**Other Information** Hazardous waste due to toxicity. Avoid release to the environment

## SECTION 14: TRANSPORT INFORMATION

<b>UN Number</b>	Not applicable
<b>UN Shipping Name</b>	Not applicable
<b>Transport Hazard Class(es)</b>	Not applicable
<b>Packing Group</b>	Not applicable
<b>Environmental Hazards</b>	Not applicable
<b>Transport in Bulk</b>	Not applicable
<b>Other Precautions</b>	Not applicable

**SECTION 15: REGULATORY INFORMATION**

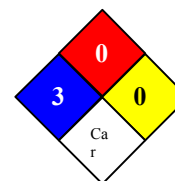
<b>Potassium Dichromate (7778-50-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Reportable Quantity	10 lb
SARA 311/312 Hazards	Reactivity, Acute Health, and Chronic Health Hazard

**SECTION 16: OTHER INFORMATION**

Revision Date: 04/08/2015

**NFPA Hazards**

<b>Health Hazard</b>	3: Very short exposure could cause death or major residual injury.
<b>Fire Hazard</b>	0: Materials that will not burn under typical fire conditions.
<b>Reactivity</b>	0: Capable of detonation or explosive decomposition but requires a strong initiating source, must be heated under confinement before initiation, reacts explosively with water, or will detonate if severely shocked.
<b>Specific Hazard</b>	Carcinogenic



**HMIS III Rating**

<b>Health</b>	3: Life-threatening, major or permanent damage may result from single or repeated overexposures.
<b>Flammability</b>	0: Materials that will not burn.
<b>Physical Hazard</b>	0: Materials that are normally stable, even under fire conditions, and will not react with water.
<b>Personal Protection</b>	J

<b>P-56</b>	
Health	3
Flammability	0
Physical Hazard	0
Personal Protection	J

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**END OF SAFETY DATA SHEET**