



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

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Potassium Dichromate, 0.025 N
NCL Catalog Number	P-57C
Product Description	Laboratory chemical
Manufacturer	NCL of Wisconsin, Inc. PO Box 8, Birnamwood, WI 54414 Telephone: 1-800-648-7836 Fax: 715-449-2454 Email: nclabs@nclabs.com 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 3
Aquatic Chronic	Category 3



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	Harmful 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.
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

Chemical Identity	Not applicable
Common Name	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

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

Most Important Symptoms/Effects Acute and Delayed

Symptoms/Injuries	May cause genetic defects. Suspected of damaging fertility or the unborn child.
After Inhalation	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.
After Skin Contact	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

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media	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

Personal Precautions	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.
Environmental Precautions	Prevent entry to surface and ground waters.
Methods and Materials for Containment and Cleaning Up	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 ³)	0.05 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	0.1 mg/m ³

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

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

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No data available
Chemical Stability	Stable under ordinary conditions of use and storage.
Possibility of Hazardous Reactions	May react violently with reducing agents.
Conditions to Avoid	No data available

Incompatible Materials Highly reactive with metals. Reactive with reducing agents and combustible materials.

Hazardous Decomposition Products Chromium oxides and potassium oxide

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity	
Potassium Dichromate (7778-50-9)	
LD50 oral rat	Not classified 25 mg/kg
LD50 dermal rabbit	14 mg/kg
LC50 inhalation rat (mg/l)	0.088 mg/l – 4 h

Skin Corrosion/Irritation Not classified

Serious Eye Damage/Irritation Not classified

Respiratory or Skin Sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ Cell Mutagenicity May alter genetic material. In vivo tests showed mutagenic effects.

Carcinogenicity May cause cancer.
IARC: Group 3 Carcinogenic to humans.

Reproductive Toxicity Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity (Single Exposure) Not classified

Specific Target Organ Toxicity (Repeated Exposure) Not classified

Aspiration Hazard Not classified

Potential Adverse Human Health Effects and Symptoms Not classified

Symptoms/Injuries After Inhalation May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Symptoms/Injuries After Skin Contact Not classified

Symptoms/Injuries After Eye Contact Not classified

Other Information No additional information.

SECTION 12: ECOLOGICAL INFORMATION

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

Potassium Dichromate (7778-50-9)	
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

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

Mobility in Soil Not established

Other Adverse Effects Harmful 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

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

SECTION 15: REGULATORY INFORMATION

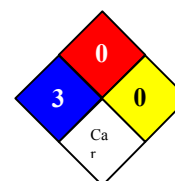
Potassium Dichromate (7778-50-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Reportable Quantity	10 lb
SARA 311/312 Hazards	Reactivity, Acute Health, and Chronic Health Hazard

SECTION 16: OTHER INFORMATION

Revision Date: 04/08/2015

NFPA Hazards

Health Hazard	3: Very short exposure could cause death or major residual injury.
Fire Hazard	0: Materials that will not burn under typical fire conditions.
Reactivity/Instability	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.
Specific Hazard	Carcinogenic



HMIS III Rating

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

P-57C	
Health	3
Flammability	0
Physical Hazard	0
Personal Protection	J

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END OF SAFETY DATA SHEET