

# SAFETY DATA SHEET

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name Ammonium Dichromate Crystal

CAS number 7789-09-5

Synonyms Dichromic acid, diammonium salt

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Industrial, manufacturing or laboratory use.

#### 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

#### 1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Oxidizing solids Category 2 Acute toxicity, oral Category 3 Acute toxicity, inhalation Categoru 2 Acute toxicity, Dermal Category 4 Skin corrosion Category 1B Serious eye damage Category 1 Respiratory sensitization Category 1 skin sensitization Category 1

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Germ cell mutegenicity
Category 1B
Carcinogenicity
Category 1B
Reproductive toxicity
Category 1B
Specific target organ toxicity - repeated exposure
Category 1
Acute aquatic toxicity
Category 1
Chronic aquatic toxicity
Category 1

#### 2.2 GHS Label elements, including precautionary statements

Pictogram











Signal Word

Danger

Hazard statements

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

Precautionary statements

Keep away from heat/sparks/open flamces/hot surface. No smoking. Keep/Store away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation, wear respiratory. IF SWALLOWED: Rinse mouth. Do not induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to freah air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse mouth. If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local regulations.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

No information available.

# **SECTION 3: Composition/information on ingredients**

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# 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration	
Ammonium Dichromate	Dichromic acid, diammonium salt	9/5/7789	>99%	

#### **SECTION 4: First aid measures**

#### 4.1 Description of first-aid measures

#### **General advice**

If inhaled Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If

not breathing, give artificial respiration. Get medical attention immediately.

In case of skin contact Immediately flush with plenty of water for at least 15 minutes while removing

contaminated clothing and wash using soap. Get medical attention immediately.

In case of eye contact Immediately rinse with plenty of water for at least 15 minutes and seek medical

attention immediately.

If swallowed DO NOT INDUCE VOMITING! Never give anything by mouth to an unconscious

person. If conscious, wash out mouth with water. Get medical attention

immediately.

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

Causes eye burns. May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Causes skin burns. Toxic if swallowed.

# 4.3 Indication of any immediate medical attention and special treatment needed

No information available.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistance foam, dry

chemical, or carbon dioxide. Use appropriate media for adjacent fire. Cool upopened containers with

water.

**Unsuitable extinguishing media**No information available.

# 5.2 Specific hazards arising from the substance or mixture

Emits toxic fumes (oxides of chromium and nitrogen) under fire conditions. (see also Stability and Reactivity section)

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# 5.3 Special protective equipment and precautions for firefighters

Wear self-contained, approved breathing apparatus and full proctective clothing, including eye protection and boots.

#### 5.4 Further information

Flash Point No data available.

**Autoignition Temperature** No information available.

**Explosion limits** 

UpperNo data available.LowerNo data available.

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

NFPA

Health	Flammability	Instability	Physical hazards

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

See section 8 for recommendations on the use of personal protective equipment.

#### 6.2 Environmental precautions

Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.

#### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and place in suitable, closed containers for disposal. Clean surface thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

#### 6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### Precautions on safe handling

See section 8 for recommendations on the use of personal protective equipment. Avoid dust formation. Avoid breathing dust. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use.

#### Hygiene measures

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No information available.

# 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Store in cool, dry well-ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities). Do not grind or subject to friction or shock. Isolated storage is recommended.

#### Incompatibilities

No information available.

#### **SECTION 8: Exposure controls/personal protection**

# 8.1 Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Туре	Value
Ammonium Dichromate	CEIL	0.1 mg/m3

#### **US. ACGIH Threshold Limit Values**

Component	Type	Value
Ammonium Dichromate	PEL	0.05 mg/m3

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

Component	Type	Value
Ammonium Dichromate	REL	0.001 mg/m3

#### **Biological occupational exposure limits**

No information available.

#### 8.2 Exposure controls

#### Appropriate engineering controls

No information available.

#### Personal protective equipment

#### **Eye/face protection**

Wear chemical safety glasses or goggles and face shield.

#### Skin and body protection

Wear nitrile or rubber gloves, apron or lab coat.

#### **Respiratory protection**

Provide local exhaust, preferable mechnical. Use an approved respirator.

#### Control of environmental exposure

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#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical State Solid crystals

Appearance No information available
Odor No information available
Odor Threshold No information available
pH 3-4 at 50 g/l at 25 °C (77 °F)

Melting Point/Range 170 °C (338 °F)

Boiling Point/Range No information available
Evaporation Rate No information available
Flammability (solid) No information available

Flammability or explosive limit

Upper No data available Lower No data available

Vapor Pressure No information available Vapor Density No information available

Density 2.15 g/cm<sup>3</sup>

Solubility

Partition coefficient; n-octanol/water

Autoignition Temp

Decomposition Temp

Viscosity

Soluble in water and alcohol.

No information available

No information available

No information available

Molecular Formula (NH4)2Cr2O7

Molecular Weight 252.1

VOC Content(%) No information available
Oxidizing properties No information available

# 9.2 Other safety information

No information available.

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No information available.

# 10.2 Chemical stability

Stable

#### 10.3 Possibility of hazardous reactions

Will not occur.

#### 10.4 Conditions to avoid

Excess heat.

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### 10.5 Incompatible materials

Strong reducing reagents, alcohols, strong acids.

#### 10.6 Hazardous decomposition products

Oxides of chromium and nitrogen.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

# **Product Information, Component Information**

#### **Acute toxicity**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium Dichromate	53 mg/kg (rat)	-	160 ppm (rat) 4 hr

#### Skin corrosion/irritation

Irritation, redness, itchiness.

#### Serious eye damage/eye irritation

Irritation, redness, itchiness, burning.

#### Respiratory or skin sensitization

Coughing, irritation, pain.

#### Germ cell mutagenicity

May alter genetic material. In vivo tests showed mutagenic effects.

#### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Ammonium Dichromate	7789-09-5	Not listed				

# Specific target organ toxicity - single exposure

No information available.

#### Specific target organ toxicity - repeated exposure

No information available.

#### Reproductive toxicity

May cause reproductive disorders.

#### **Chronic effects**

Damage to organs. Known to cause cancer.

#### 11.2 Additional Information

No information available.

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# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product		Species	Test Results	
Ammonium Dichromate	LC50	Leuciscus idus	50 mg/l 48h	

#### 12.2 Persistence and degradability

No information available.

#### 12.3 Bio accumulative potential

No information available.

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

No information available.

#### 12.6 Endocrine disrupting properties

No information available.

#### 12.7 Other adverse effects

Very toxic to aquatic life with long lasting effects.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

#### **SECTION 14: Transport information**

DOT (US)

**UN-No** UN1439

Proper Shipping Name AMMONIUM DICHROMATE

Hazard Class 5.1
Packing Group

**IMDG** 

UN-No UN1439

Proper Shipping Name AMMONIUM DICHROMATE

Hazard Class 5.1 Packing Group

IATA

**UN-No** UN1439

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Proper Shipping Name AMMONIUM DICHROMATE

Hazard Class 5.1
Packing Group II

#### **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Listed

SARA 304 Emergency release notification

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Listed, Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard.

SARA 313 (TRI reporting)

Listed.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated

FEMA Priority Substances Respiratory Health and Safety in the Flavor

**Manufacturing Workplace** 

Not listed

**US** state regulations

**US. Massachusetts RTK - Substance List** 

Not listed

**US. New Jersey Worker and Community Right-to-Know Act** 

Not listed

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# US. Pennsylvania Worker and Community Right-to-Know Law Not listed

# **California Proposition 65**

Listed

#### **SECTION 16: Other information**

Issue date: 06/08/2012 Revision 1: 12/11/2015 Revision 2: 08/02/2024

#### **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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