

# SAFETY DATA SHEET

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

1.1 Product identifiers

Product name Chromium

CAS number 7440-47-3

Synonyms No information available

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

Identified uses Wood perservatives, steel making

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)

Chronic hazards to the aquatic environment Category 1
Acute hazards to the aquatic environment Category 1

# 2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Warning

Hazard statements Very toxic to aquatic life with long lasing effects.

Precautionary statements

If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. Do not eat, drink or

smoke when using this product. Avoid release to the environment.

Collect spillage. Dispose of contents and container to an approved waste

disposal plant.

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

None

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

## 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Chromium	-	7440-47-3	>98%

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

## 4.1 Description of first-aid measures

#### General advice

**If inhaled** Loosen clothing as necessary and position individual in a comfortable position.

Move exposed to fresh air. Give artificial respiration if necessary. If braething is difficult give oxygen. Get medical assistance if cough or other symptoms appear.

In case of skin contact Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Seek

medical advice if discomfort or irritation persists.

In case of eye contact Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20

minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical

attention if irritation persists or if concerned.

If swallowed Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink

sips of water. Seek medical attention if irritation, discomfort or vomiting persists.

Never give anything by mouth to an unconscious person.

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

Irritation, Nausea, Headache, Shortness of breath.

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

If seeking medical attention, provide SDS document to physician. Physician should treat symptomatically.

## **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media

Use appropriate fire suppression agents for adjacent

combustible materials or sources of ignition. Use water, dry chemical, chemical foam, carbon dioxide,

or alcohol-resistant foam.

Unsuitable extinguishing media None.

# 5.2 Specific hazards arising from the substance or mixture

Combustion products may include carbon oxides or other toxic vapors. Thermal decomposition can lead to release of irritating gases and vapors.

# 5.3 Special protective equipment and precautions for firefighters

Use NIOSH-approved respiratory protection/breathing apparatus.

### 5.4 Further information

Flash Point No information available

Autoignition Temperature No information available

**Explosion limits** 

UpperNo information availableLowerNo information availableSensitivity to Mechanical ImpactNo information availableSensitivity to Static DischargeNo information available

**NFPA** 

Health	Flammability	Instability	Physical hazards
2	1	1	N/A

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

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

Wear protective equipment. Ensure that air-handling systems are operational. Ensure adequate ventilation.

### 6.2 Environmental precautions

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13. Should not be released into environment.

## 6.3 Methods and materials for containment and cleaning up

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Keep in suitable closed containers for disposal. Wear protective eyeware, gloves, and clothing. Refer to Section 8. Always obey local regulations. Evacuate personnel to safe areas.

#### 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

Minimize dust generation and accumulation. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Avoid release to the environment. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with eyes, skin, and clothing.

# Hygiene measures

Perform routine housekeeping. Wash hands before breaks and at the end of work. Avoid contact with skin, eyes, and clothing. Before wearing wash contaminated clothing.

## 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Store away from incompatible materials. Protect from freezing and physical damage. Keep away from food and beverages. Provide ventilation for containers. Store in cool, dry conditions in well sealed containers. Store with like hazards.

## Incompatibilities

No information available.

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

## 8.1 Occupational exposure limits

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

Component	Type	Value
Chromium	TWA	0.5 mg/m3

## **Biological occupational exposure limits**

No information available.

### 8.2 Exposure controls

#### Appropriate engineering controls

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Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhause ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts (total/respirable) below the applicable workplace exposure limits (Occupational Exposure Limits - OELs) indicated above. It is recommended that all dust control equipment such as local exhaust ventilation and materials transport systems involved in handling of this product contain explosion relief vents or an exploision suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use under a fume hood.

### Personal protective equipment

### **Eye/face protection**

Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Safety glasses or goggles are appropriate eye protection.

# Skin and body protection

Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.

### Respiratory protection

Not required under normal conditions of use. Where risk assessment showers airpurifying respirators are appropriate use a full-face particles respirator type N100 (US) or type P3 (EN143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

#### Control of environmental exposure

No information available.

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

# 9.1 Information on basic physical and chemical properties

Physical State Solid
Appearance Silver-gray
Odor Odorless

Flammability (solid)

Odor Threshold

pH

No information available.

No information available.

No information available.

No information available.

1857 °C (3374.96 °F)

Boiling Point/Range

2642 °C (4787.6 °F)

Evaporation Rate

No information available.

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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 7.2 @ 28 °C

Solubility Insoluble. Molecular Weight: 52.0

Partition coefficient; n-octanol/water No data available

Autoignition Temp

Decomposition Temp

Viscosity

No information available

No information available

No information available

Molecular Formula Cr Molecular Weight 52.00

VOC Content(%)

Oxidizing properties

No information available

No information available

# 9.2 Other safety information

No information available.

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

## 10.1 Reactivity

Nonreactive under normal conditions.

## 10.2 Chemical stability

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

None under normal processing.

#### 10.4 Conditions to avoid

Incompatible materials.

### 10.5 Incompatible materials

Strong acids, strong bases, oxidizing agents.

# 10.6 Hazardous decomposition products

None

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

# **Product Information, Component Information**

## **Acute toxicity**

No information available.

### Skin corrosion/irritation

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No information available.

# Serious eye damage/eye irritation

No information available.

## Respiratory or skin sensitization

No information available.

# Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Chromium	7440-47-3	Not listed				

# Specific target organ toxicity - single exposure

No information available.

# Specific target organ toxicity - repeated exposure

No information available.

# Reproductive toxicity

No information available.

## **Chronic effects**

No information available.

### 11.2 Additional Information

No information available.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Product		Species	Test Results
Chromium	LC50	Cyprinus carpio	14.3 mg/l 96 h

# 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

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No information available

# 12.6 Endocrine disrupting properties

No information available.

### 12.7 Other adverse effects

No information available.

## **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** UN3077

**Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE. SOLID. N.O.S.

**Hazard Class Packing Group** Ш

**IMDG** 

**UN-No** UN3077

**Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

**Hazard Class** 9 **Packing Group** Ш

IATA

UN-No UN3077

**Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

**Hazard Class** 9 Ш **Packing Group** 

# **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) Not listed.

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

Listed (CHROMIUM) RQ 5000 lb.

**SARA 304 Emergency release notification** 

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**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

Not listed.

SARA 313 (TRI reporting)

Not 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

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed

**California Proposition 65** 

Not listed

**SECTION 16: Other information** 

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### **SECTION 17: Disclaimer**

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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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