

Safety Data Sheet

Product Name: Aluminum Industrial Tool - Uncoated
 Date of Preparation: 4/18/2019
 Date of Last Revision: None

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacture: Roofmaster Products Company
Street address: 750 Monterey Pass Road
 Monterey Park, CA 91754

Product Name: Aluminum Industrial Tool - Uncoated
Synonyms: None
Recommended use: Industrial tool with a variety of uses.
Restrictions on use: No restrictions on use.


General Phone Number: 1 (323) 261-5122
Customer Toll Free: 1 (800) 372-6409 (CA); 1 (800) 421-6174 (National)
Emergency Phone: 1 (800) 255-3924 or 1 (813) 248-0585 for callers outside US territories [ChemTel]

SECTION 2: HAZARDS IDENTIFICATION

Note that the hazards presented in this SDS are largely due to the inhalation, ingestion, or skin/eye exposure to the dusts and fumes that may be created by machining, welding, grinding, cutting, or other processing of this product. The hazards are expected to be minimal with normal use of the tool. Follow the Prevention statements described below and other information throughout this SDS to minimize exposure.

Signal Word: Warning

Pictograms:

Health	Physical	Environmental
	Not classified.	Not classified.

Classifications:

Health	Physical	Environmental
Skin Sensitization Category 1 Carcinogenicity - Category 1B Reproductive Toxicity - Category 2	Not classified.	Not classified.

Hazard Statements:

May cause an allergic skin reaction.
 May cause cancer.
 Suspected of damaging fertility or the unborn child.

Prevention:

Avoid breathing dust/fume/gas/mist/vapors/spray.
 Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves.
 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.

Response:

IF ON SKIN: Wash with plenty of water.
 If skin irritation or rash occurs: Get medical advice/attention.
 Specific treatment (see Section 4 of this SDS).
 Take off contaminated clothing and wash it before reuse.
 IF exposed or concerned: Get medical advice/attention.

Storage:

Store locked up.

Disposal:

Dispose of contents/container in accordance with Local, State, and Federal regulations.

Hazards Not Otherwise Classified:

Combustible dust hazard may be present if material is welded or any time dust is generated. Ingestion of certain metals (e.g., zinc) can cause gastrointestinal distress and vomiting. Inhalation of certain metal oxides (e.g., zinc and copper) can cause metal fume fever. Welding, sawing, brazing, grinding, abrasive blasting or machining may produce fumes, dust, and/or particulates.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Components	CASRN	% weight
Aluminum	7429-90-5	> 75
Silicon	7440-21-3	≤ 17
Zinc	7440-66-6	≤ 11
Iron	7439-89-6	≤ 11
Copper	7440-50-8	≤ 10
Magnesium	7439-95-4	≤ 8
Nickel	7440-02-0	≤ 3
Manganese	7439-96-5	≤ 3
Silver	7440-22-4	≤ 1
Chromium	7440-47-3	≤ 0.5
Cobalt	7440-48-4	≤ 0.25
Cadmium	7440-43-9	≤ 0.03

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SECTION 4: FIRST AID MEASURES

Eye contact:

Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Remove contacts if present and easy to do. Continue rinsing. Get medical attention, if irritation or symptoms of overexposure persists.

Skin contact:

Immediately wash skin with plenty of water. Get medical attention if irritation develops or persists. Get medical advice/attention if you feel unwell. Wash contaminated clothing before reuse.

Inhalation:

If inhaled, remove to fresh air. Seek medical attention if symptoms develop or persist. Excessive inhalation of metallic fumes and dusts may result in metal fume fever, an influenza-like illness.

Ingestion:

If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable/Unsuitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

Flash point: Not available

Flammable limits: UEL: Not available
LEL: Not available

Auto ignition temperature: Not available.

Special protective equipment and precautions for firefighters:

As in any fire, wear Self-Contained Breathing Apparatus (SCBA), NIOSH (approved or equivalent) and full protective gear. Do not breath fumes from fires or vapors from decomposition.

Unusual fire or explosion hazards:

Steel products do not present fire or explosion hazards under normal conditions. Dust generated from processing may present a dust explosion hazard.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Emergency response is unlikely unless in the form of combustible dust. Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Use proper personal protective equipment (see Section 8). Do not breathe dusts or fumes.

Methods and material for containment and cleaning up:

Contain spills with appropriate barriers. Clean up dust using a vacuum fitted with a HEPA filter to prevent dust release. Provide ventilation. Eliminate all ignition sources including those beyond the immediate spill area if safe to do so. Clean up spills immediately observing precautions in the protective equipment section. Collect spill with a non-sparking tool. Place into a suitable container for disposal. Take precautionary measures against static discharges. Scrap should be reclaimed for recycling. Prevent materials from entering drains, sewers, or waterways.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:

Do not breathe dusts or fumes. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Avoid dust creation. Ensure adequate ventilation. Wear recommended PPE (see Section 8). Use proper grounding procedures to reduce potential for static discharge, bond and ground containers when transferring material.

Conditions for safe storage:

Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, and incompatible substances. Keep container tightly closed when not in use. Store away from strong oxidizers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Work Hygiene Practices:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Appropriate personal protective equipment should be worn for the task. For example, gloves, face shield, protective clothing and boots for welding and grinding.

Exposure Limits:

No permissible exposure limits (PEL) or threshold limit values (TLV) exist for steel. See table below for component materials. Various grades of steel will contain different combinations of these elements. Trace elements may also be present in minute amounts.

Components	OSHA PEL (mg/m ³)	NIOSH REL (mg/m ³)	ACGIH TLV (mg/m ³)
Aluminum	5	5	1
Silicon	5	5	N.E.
Zinc	N.E.	N.E.	N.E.
Iron (as Iron oxide)	10	5	5
Copper	1	1	1
Magnesium	N.E.	N.E.	N.E.
Nickel	1	0.015	1.5
Manganese	5	1	0.1
Silver	0.01	0.01	0.1
Chromium	0.5	0.5	0.5
Cobalt	0.1	0.05	0.02
Cadmium	N.E.	N.E.	0.01
N.E.: Not Established			

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Engineering controls:

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment. Avoid dust generation. Take precautionary measures against static discharge. Use explosion-proof equipment.

Eye and face protection:

Wear appropriate protective goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation. Face shield should be used when welding or cutting.

Skin and hand protection:

Chemical-resistant impermeable gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.

Respiratory protection:

A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Environmental exposure controls:

Avoid runoff into storm sewers, ditches, and waterways.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Gray; Silver
Odor:	Odorless
Odor threshold:	Not available.
pH:	Not applicable.
Melting point:	476.7-660 °C
Initial boiling point and boiling range:	2450 °C
Flash point:	Not available.
Evaporation rate (butyl acetate = 1):	Not available.
Flammability (solid, gas):	Not available.
Lower flammability/explosive limits	Not available.
Upper flammability/explosive limits	Not available.
Vapor pressure:	Not available.
Vapor density (air = 1):	Not available.
Density:	2.50-3.13
Solubility(ies) in water:	Insoluble
Partition coefficient, n-octanol/water:	Not available.
Auto ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.
Explosive properties:	Not available.
Oxidizing properties:	Not available.
VOC Content:	Not available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No hazardous reactions expected under normal temperatures and pressures.

Chemical stability: Stable under normal temperatures and pressures.

Hazardous reactions: Welding of metal can generate fumes.

Conditions to avoid: Avoid generation of airborne fumes. Dust may be ignited by an ignition source.

Incompatible materials: Oxidizers, acids, bases, and mineral acids. Corrosive substances may produce flammable hydrogen gas when in contact with metals.

Hazardous Polymerization: Will not occur.

Hazardous decomposition products: Metallic fumes may be produced during welding, burning, grinding, and possibly machining or any situation with the potential for thermal decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely routes of exposure:

Inhalation, dermal, and skin and eye contact.

Symptoms related to the physical, chemical and toxicological characteristics:

All heavy metals, including the hazardous ingredients in this product, are taken into the body primarily by inhalation and ingestion. Most inhalation problems can be avoided by adequate precautions such as ventilation and respiratory protection covered in Section 8. Follow good personal hygiene to avoid inhalation and ingestion: wash hands, face, neck and arms thoroughly before eating, smoking or leaving the worksite. Keep contaminated clothing out of non-contaminated areas, or wear cover clothing when in such areas. Restrict the use and presence of food, tobacco and cosmetics to non-contaminated areas. Work clothes and work equipment used in contaminated areas must remain in designated areas and never taken home or laundered with personal non-contaminated clothing. This product is intended for industrial use only and should be isolated from children and their environment. Prolonged exposure to iron dusts or fumes can cause siderosis (benign pneumoconiosis). Fumes of certain metals, e.g., zinc and copper, may cause metal fume fever. Symptoms last for about twenty-four hours and include fever, nausea, and coughing. Dust may cause eye irritation.

Delayed and immediate effects and also chronic effects from short- and long-term exposure:

May cause cancer. May damage fertility or the unborn child.

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Acute toxicity:

Silicon Oral LD₅₀ = 3160 mg/kg (rat).
 Iron Oral LD₅₀ = 98.6 g/kg (rat).
 Nickel Oral LD₅₀ > 9000 mg/kg (rat).
 Manganese Oral LD₅₀ > 2000 mg/kg (rat); Inhalation LC₅₀ > 5.14 mg/L/4h (rat).
 Silver Oral LD₅₀ > 2000 mg/kg (rat).
 Chromium Oral LD₅₀ = 5000 mg/kg (rat); Inhalation LC₅₀ > 5.41 mg/L/4h (rat).
 Cobalt Oral LD₅₀ = 215.9-1140 mg/kg (rat); Inhalation LC₅₀ > 10 mg/L/1h (rat); Inhalation LC₅₀ < 0.05 mg/L/4h (rat).

Skin corrosion/irritation:

Not classified.

Serious eye damage/irritation:

Not classified.

Respiratory or Skin sensitization:

Nickel, a component metal, can cause skin sensitization (sensitization dermatitis).

Germ Cell Mutagenicity:

Not a mutagenicity

Carcinogenicity:

Components* listed as carcinogenic	International Agency for Research on Cancer (IARC) Classification Group	National Toxicology Program (NTP) Listing	OSHA
Iron and steel	1	N.E.	N.E.
Welding fumes	1	N.E.	N.E.
Nickel	2B	R	N.E.
Cobalt	2B	R	N.E.
Cadmium	1	K	Listed
Chromium hexavalent compounds (produced during	1	K	N.E.

1: Carcinogenic to humans
 2B: Possibly carcinogenic to humans
 K: Known to be a human carcinogen
 R: Reasonably anticipated to be a human carcinogen
 N.E.: Not Established

* Components disclosed in Section 3 but not in this table are not established as carcinogens by IARC, NTP, or OSHA.

Reproductive toxicity: May cause damage to fertility or the unborn child.

Specific Target Organ Toxicity-Single/Repeated Exposure: Not classified.

SECTION 12: ECOLOGICAL INFORMATION

Acute or chronic toxicity to aquatic organisms:

Nickel

Fish: *Brachydanio rerio*: LC₅₀(96h) = 100 mg/L
 Fish: 15.3 mg/L
 Invertebrates: *Daphnia magna*: EC₅₀(48h) > 100 mg/L
 Invertebrates: *Daphnia magna (static)*: EC₅₀(48h) = 1 mg/L

Manganese

Fish: *Oncorhynchus mykiss*: NOEC Chronic(96h) = 3.6 mg/L

Silver

Fish: *Pimephales promelas (static)*: LC₅₀(96h) = 0.00155 (0.00155-0.00293) mg/L
 Fish: *Oncorhynchus mykiss (flow-through)*: LC₅₀(96h) = 0.0062 mg/L
 Invertebrates: *Daphnia magna (static)*: EC₅₀(48h) = 0.00024 mg/L

Cobalt

Fish: *Brachydanio rerio(static)*: LC₅₀(96h) > 100 mg/L

Cadmium

Fish: *Oncorhynchus mykiss (flow-through)*: LC₅₀(96h) = 0.003 mg/L
 Fish: *Oncorhynchus mykiss (static)*: LC₅₀(96h) = 0.006 mg/L
 Invertebrates: *Daphnia magna (static)*: EC₅₀(48h) = 0.0244 mg/L

Persistence and degradability:

No data available for this product.

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Bioconcentration factor (BCF):

Cobalt

BCF Fish 1: (no bioaccumulation)

Results of PBT and vPvB assessment:

No data available for this product.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods: Dispose used or unused product in accordance with applicable Federal, State, and Local regulations. Scrap may be reclaimed for recycling. Prevent materials from entering drains, sewers, or waterways.

SECTION 14: TRANSPORTATION INFORMATION

US DOT:

UN proper shipping name: Not regulated.
UN number: Not regulated.
Transport hazard class: Not regulated.
Packing group: Not regulated.

SECTION 15: REGULATORY INFORMATION

TSCA:

All known components of this product are listed on the TSCA inventory.

SARA 304 CERCLA Hazardous Substances:

Component*	CASRN	Reportable Quantity (lb)
Cadmium	7440-43-9	10*
Chromium	7440-47-3	5000*
Copper	7440-50-8	5000*
Zinc	7440-66-6	1000*

* Components disclosed in Section 3 but not in this table are not reportable under SARA 304.

*Not reportable if released as a solid form where the pieces have a mean diameter greater than 100 micrometers (0.004 inches).

SARA 311/312 Hazards:

EPCRA Section 312 Tier Two reporting is not required for substances present in solid form as part of a manufactured article.

SARA 313 Reportable Quantities:

Article exemption: If a toxic chemical is present in an article at a covered facility, a person is not required to consider the quantity of the toxic chemical present in such article when determining whether an applicable threshold has been met under §372.25, §372.27, or §372.28 or determining the amount of release to be reported under §372.30. This exemption applies whether the person received the article from another person or the person produced the article. However, this exemption applies only to the quantity of the toxic chemical present in the article. 40 CFR section 372.38(b).

Any processing, such as machining, that releases more than 0.5 pounds of any individual Section 313 chemical (in the table below) in a calendar year will negate the article exemption unless ALL the resulting waste is collected for recycling or otherwise reused.

Component*	CASRN	Concentration (% by weight)
Aluminum	7429-90-5	< 1.0
Cadmium	7440-43-9	< 0.1%
Chromium	7440-47-3	< 1.0
Cobalt	7440-48-4	< 0.1
Copper	7440-50-8	< 1.0
Manganese	7439-96-5	< 1.0
Nickel	7440-02-0	<0.1
Silver	7440-22-4	<1.0
Zinc	7440-66-6	<1.0

* Components disclosed in Section 3 but not in this table are not reportable under SARA 313.

Clean Air Act Section 112 Hazardous Air Pollutants (HAPs):

No components in this product are subject to accident prevention regulations under CAA 112.

State regulations:

California Proposition 65



WARNING: This product can expose you to chemicals including cobalt and nickel, which are known to the State of California to cause cancer, and cadmium and hexavalent chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Massachusetts

Aluminum, Cadmium, Chromium, Cobalt, Copper, Magnesium, Manganese, Nickel, Silicon, Silver, Zinc.

New Jersey

Aluminum, Cadmium, Chromium, Cobalt, Copper, Magnesium, Manganese, Nickel, Silicon, Silver, Zinc.

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Pennsylvania

Aluminum, Cadmium, Chromium, Cobalt, Copper, Magnesium, Manganese, Nickel, Silicon, Silver, Zinc.

Chemical safety assessment:

A chemical safety assessment has not been prepared for this product.

SECTION 16: OTHER INFORMATION

Reason for Issue: Initial SDS for new product.

SDS preparation information:

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Date of Last Revision: None

Disclaimer:

This information is furnished without warranty, expressed or implied, except that it is accurate to the best of the preparer's knowledge. The data on this sheet are related only to the specific material designated herein. The preparer assumes no legal responsibility for use or reliance on these data.

OSHA HazCom 2012 Final Rule & Appendices are available at: <https://www.osha.gov/dsg/hazcom/ghs-final-rule.html>.