

SECTION 1. CHEMICAL PRODUCT AND COMPANY NAME

**Band Saw Blades &
Reciprocating Blades, Unpainted
Part No. 792556-A, 792555-A, 792557-A
792557-B, 1943130**

Safety Data Sheet

Complies with the OSHA Hazard
Communication Standard :
29 CFR 1910 1200

Makita U.S.A., Inc. 14930-C Northam Street La Mirada, CA 90638	Prepared By :	Stan Rodrigues
	Date Revised:	05/19/2015

EMERGENCY CONTACT INFORMATION

Telephone Number for Information: MAKITA: 1-510-657-9881

Emergency Response

For Chemical Emergency
Spills, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada 1-800-424-9300

SECTION 2. HAZARD IDENTIFICATION:

Emergency Overview:	Elevated concentrations of airborne dust may be irritating to the eyes, skin, and respiratory tract.
Routes of Entry:	Inhalation, eye contact, skin contact, ingestion
Potential Health Effects:	
Eyes:	Irritant
Skin:	Irritant
Ingestion:	Irritant
Inhalation:	Irritant
Aluminum:	Irritation eyes and respiratory system.
Carbon:	Irritation eyes, skin, and respiratory system.
Chromium:	Irritation eyes, skin, and respiratory system, sensitization dermatitis, lung fibrosis; oxidizing chromium metal may generate hexavalent chromium, which is a human carcinogen (OSHA, IARC, and NTP).
Cobalt:	Cough, dyspnea, wheezing, decreased pulmonary function, Weight loss, dermatitis, diffuse nodular fibrosis, respiratory hypersensitivity, asthma. Possible human carcinogen (IARC).
Manganese:	Parkinson's, asthenia, insomnia, mental confusion, metal fume fever, dry throat, tightness in chest, dyspnea, rales, flu-like fever, low back pain, vomiting, malaise, fatigue, kidney damage.
Molybdenum:	Irritation to eyes, skin, respiratory system, anorexia, incoordination, dyspnea, anemia.
Nickel:	Sensitization dermatitis, allergic asthma, pneumonitis. Reasonable anticipated to cause cancer (IARC and NTP).
Silicon:	Irritation to respiratory system.
Titanium:	Irritation of eyes, skin, respiratory system, respiratory disease.
Tungsten:	Irritation to eyes, skin, respiratory system, diffuse pulmonary fibrosis, loss of appetite, nausea, coughing, blood changes.

CONTINUED: SECTION 2. HAZARD IDENTIFICATION:

Acute Health Hazards: Irritation, dyspnea, flu-like symptoms

Chronic Health Hazards: Respiratory hypersensitivity, Parkinson’s disease, dermatitis, cancer

Medical Conditions

Generally Aggravated By Asthma and/or other pulmonary diseases

Exposures:

Carcinogenicity

OSHA:Chromium **ACGIH:** Nickel (A1), Chromium (A1), Cobalt (A3), Molybdenum (A3) **NTP:** Chromium, Nickel

IARC: Chromium, Cobalt (2B), Nickel

SECTION 2 NOTES:

OSHA - Occupational Safety and Health Administration, U.S. Department of Labor
OSHA regulated chemicals marked with “yes”

NTP-National Toxicology Program, U.S. Department of Health and Human Services
Group K: known to be human carcinogens
Group R: reasonably anticipated to be human carcinogens

IARC - International Agency for Research on Cancer

Group 1: carcinogenic to humans
Group 2A: probably carcinogenic to humans
Group 2B: possibly carcinogenic to humans

ACGIH-American Conference of Governmental Industrial Hygienists
Group A1: confirmed human carcinogen
Group A2: suspected human carcinogen
Group A3: confirmed animal carcinogen with unknown relevance to humans

SECTION 3. COMPOSITION, INFORMATION OR INGREDIENTS

PREPARED EDGE BACKING MATERIAL – D6A ALLOY STEEL

INGREDIENT:	MAX%	CAS NO.	OSHA PEL (mg/m ³)	ACGIH TLV (mg/m ³)
Aluminum	0.10	7429-90-5	15 (total dust) 5 (resp. dust)	10 (dust)
Carbon	0.50	7440-44-0	15 (total dust)	15
Chromium	1.15	7440-47-3	1 (as metal)	0.5
Manganese	0.90	7439-96-5	5 Ceiling	0.2
Molybdenum	1.15	7439-98-7	15 (insoluble)	5.0
Nickel	0.70	7440-02-0	1	0.1
Phosphorus	0.015	7723-14-0	0.1	0.1
Silicon	0.35	7440-21-3	15	10
Sulfur	0.015	7704-34-9	Not Established	Not Established
Vanadium	0.15	7440-62-2	0.5 Ceiling, respirable	0.05 (as Oxide)

PREPARED EDGE BACKING MATERIAL – 6150 MODIFIED ALLOY STEEL

INGREDIENT:	MAX%	CAS NO.	OSHA PEL (mg/m ³)	ACGIH TLV (mg/m ³)
Aluminum	0.10	7429-90-5	15 (total dust) 5 (resp. dust)	10 (dust)
Carbon	0.53	7440-44-0	15 (total dust)	15
Chromium	1.15	7440-47-3	1 (as metal)	0.5
Manganese	0.90	7439-96-5	5 Ceiling	0.2
Molybdenum	0.60	7439-98-7	15 (insoluble)	5.0

CONTINUED: SECTION 3. COMPOSITION, INFORMATION OR INGREDIENTS

Phosphorus	0.025	7723-14-0	0.1	0.1
Silicon	0.35	7440-21-3	15	10.0
Sulfur	0.015	7704-34-9	Not Established	Not Established
Vanadium	0.20	7440-62-2	0.5 Ceiling, respirable	0.05 (Oxide)

PREPARED EDGE BACKING MATERIAL – MATRIX II HIGH SPEED STEEL EDGE WIRE

INGREDIENT:	MAX%	CAS NO.	OSHA PEL (mg/m³)	ACGIH TLV (mg/m³)
Carbon	0.80	7440-44-0	15 (total dust)	15 (total dust)
Chromium	4.40	7440-47-3	1 (as metal)	0.5
Cobalt	8.30	7440-48-4	0.1	0.02
Hydrogen	10 ppm	133-74-0	Not Established	Not Established
Manganese	0.40	7439-96-5	5 Ceiling	0.2
Molybdenum	5.25	7439-98-7	15 (insoluble)	5.0
Nitrogen	250 ppm	7727-37-9	Not Established	Simple Asphyxiant
Oxygen	100 ppm	7782-44-7	Not Established	Not Established
Phosphorus	0.030	7723-14-0	0.1	0.1
Silicon	0.35	7440-21-3	15.0	10.0
Sulfur	0.030	7704-34-9	Not Established	Not Established
Tungsten	1.20	7440-33-7	Not Established	5.0
Vanadium	1.15	7440-62-2	0.5 Ceiling, respirable	0.05 (Oxide)

Section 3 Notes:

- 1). Makita saw blades are manufactured from metals into solid, stable and inert blades. Under normal sawing conditions, the saw blades are considered to be articles in that they do not release more than very small quantities of hazardous chemicals and do not cause physical or health hazards as defined in the OSHA Hazard Communication Standard. Hazardous chemicals may be released if the blades are welded, cut, grinded, melted or otherwise physically altered.
- 2). This SDS was prepared to address the potential for exposure to dust and/or fume generated from the saw blade. Beyond the scope of this SDS, the material being cut may contain hazardous chemicals and therefore needs to be evaluated with effective controls instituted to prevent exposure.
- 3). Occupational exposure limits are Time Weighted Average (TWA) values unless otherwise noted, and Total Particulate (OSHA) unless otherwise noted.

SECTION 4. FIRST AID MEASURE

Eyes:	Flush eyes with large amounts of water. Slivers may occur. Get medical attention.
Skin:	Vacuum or brush off excess dust. Slivers may occur. Wash area with soap and water.
Ingestion:	Seek medical attention or call a Poison Control Center.
Inhalation:	Move person to fresh air. Seek medical attention as appropriate.

SECTION 5. FIRE FIGHTING MEASURES

Flammable Limits in Air, Upper:	N/A
Lower:	N/A
Flash Point:	N/A
Autoignition Temperature:	N/A
Extinguishing Media:	N/A
Special Fire Fighting Procedures:	N/A
Unusual Fire and Explosion Hazards:	N/A

Section 5 Notes:

Dust generated during work activities should be cleaned utilizing HEPA vacuums to comply with NFPA (654) combustible dust guidelines.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures:	Saw blade dust should be cleaned up to avoid airborne dust generation and/or release into the environment. Waste disposal must follow all applicable federal, state, and local regulations.
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SECTION 7. HANDLING AND STORAGE

Handling and Storage:	N/A
Other Precautions:	N/A

Section 7 Notes:

Saw blades may be coated with a thin layer of preservative oil as a rust inhibitor. The blades may also be stenciled. These coatings are not believed to create any occupational health or physical hazards.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls:	
Ventilation:	Local mechanical exhaust recommended
Respiratory Protection:	Respiratory Protection should be used in accordance with 29 CFR 1910.34. If exposure is above the PEL or TLV – NIOSH approved respirators for fume and dust should be utilized.
Eye Protection:	Always wear eye protection during work activity. Depending on level of activity a face shield may be recommended. ANSI Z87.1 approved eye protection needs to be worn when the potential for eye contact with the saw blade, dusts or fumes exists. At a minimum, side shields on ANSI Z87 safety spectacles must be worn.
Skin Protection:	Cut resistant gloves when handling the saw blades.
Other Protective Clothing or Equipment:	Other body protection as appropriate depending on activity (e.g. aprons, helmets, and protective clothing required against burns.)
Work Hygienic Practices:	Wash hands thoroughly after use, and before eating, drinking, smoking, applying cosmetics or contact lenses. Maintain exposure below the PEL/TLV. Use industrial hygiene monitoring to ensure that your use of this material does not create exposures which exceed PEL/TLV. Always use exhaust ventilation. Refer to the following sources for important additional information. OSHA (29CFR 1910) U.S. Department of Labor, Washington, D.C. 20210.
Exposure Guidelines:	Use industrial hygiene monitoring to ensure that your use of this material does not create exposures which exceed PEL/TLV.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Steel Blade
pH As Supplied:	NA
Freezing Point:	NA
Specific Gravity (H2O = 1):	7.9
Odor:	NA
Boiling Point:	NA
Vapor Pressure (mmHg):	NA
Evaporation Rate:	NA
Physical State:	Solid
Melting Point:	Approximately 2800°F
Vapor Density (Air = 1):	NA
Basis (=1):	
Solubility in Water:	Insoluble
Volatile Organic Compound (VOC):	N/A
Viscosity:	NA
Percent Solids By Weight:	100
Percent Volatile:	NA
Molecular Weight:	NA

SECTION 10. STABILITY AND REACTIVITY

Stability:	Saw blades are stable.
Conditions to Avoid (Stability):	N/A
Incompatibility (Material to Avoid)	Reaction with strong acids and oxidizers may release hydrogen gas and other reaction by products.
Hazardous Decomposition Or By-Products:	Metallic oxides and/or metal fumes from welding, burning or melting operations
Hazardous Polymerization:	N/A
Conditions to Avoid (Polymerization):	

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicological Information:	N/A
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SECTION 12. ECOLOGICAL INFORMATION

Ecological Information:	N/A
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SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Waste materials should be recycled.

RCRA Hazard Class: N/A

SECTION 14. TRANSPORT INFORMATION

U.S. Department Of Transportation: Material is not considered to be a DOT hazardous material.

Proper Shipping Name:

Hazard Class:

ID Number:

Packing Group:

Label Statement:

Water Transportation: Material is not considered to be a hazardous material.

Proper Shipping Name:

Hazard Class:

ID Number:

Packing Group:

Label Statement:

Air Transportation: Material is not considered to be a hazardous material.

Proper Shipping Name:

Hazard Class:

ID Number:

Packing Group:

Label Statement:

Other Agencies:

SECTION 15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): SARA Title III Notification Information: Aluminum, chromium, nickel, manganese, phosphorous, and vanadium are chemicals subject to the reporting requirements of Section 313 of Title III of the Super Fund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Section 15 Notes:

California Proposition 65 Information: Warning: This product contains a chemical known to the State of California to cause cancer.

New Jersey Right-To-Know Information: 5 most predominant ingredients/hazardous and non-hazardous) Manganese, Molybdenum, Silicon.

SECTION 16. OTHER INFORMATION

Other Information:

Preparation Information:

Disclaimer: The information in this document is believed to be correct as of the date issued. However, no warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the results to be obtained from the use of this information or the product, the safety of this product, or the hazards related to its use.