



SDS Number: Cut-Off Wheel, Metal

Type 27

Revision Date: 4/4/2025

SAFETY DATA SHEET

This Safety Data Sheet (SDS) covers welding consumables and related products and complies with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Superfund Amendments and Reauthorization Act (SARA) of 1986. Refer to the OSHA standard for specific requirements. This SDS is available on our website at www.forneyind.com, through your sales representative, or by contacting customer service at 1-800-521-6038.

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION:

Manufacturer/Supplier: Forney Industries, Inc.
Address: 2057 Vermont Drive Fort Collins, CO 80525
Website: www.forneyind.com
Email: CustomerService@forneyind.com
Phone Number: +1 (800) 521-6038
USA Emergency Phone Number: +1 (800) 535-5053
International Emergency Phone Number: +1 (352) 323-3500
Trade Name: Cut-Off Wheel, Metal Type 27

Recommended Use: Abrasive Product

Forney ITEM#'s: 71218, 71219, 71792, 71793, 71794, 71800, 71801, 71807, 71814, 71818, 71819, 71848, 71877, 71878, 71888, 71926, 71927, 71928, 71929, 71938, 71939

SECTION 2 – HAZARDS IDENTIFICATION:

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

Signal Word: Not applicable.
GHS Class: Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200 Hazard Statements: Not applicable.
Precautionary Statements: Not applicable.

Hazards not otherwise classified that have been identified during the classification process:

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.
Eye: Causes eye irritation.
Skin: Causes skin irritation.
Inhalation: Prolonged or excessive inhalation may cause respiratory tract irritation.
Ingestion: May be harmful if swallowed. May cause vomiting.
Chronic Health Effects: Prolonged or repeated contact may cause skin irritation.
Signs/Symptoms: Overexposure may cause headaches and dizziness.



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Target Organs: Eyes. Skin. Respiratory system. Digestive system.

Aggravation of Pre-Existing Conditions:

None generally recognized.

Fiberglass

Inhalation: Fiberglass contained in wheels have fiber diameters greater than 10 um, therefore considered non-respirable.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS:

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Inorganic fluorides weight	Not Applicable	1 - 5 by	
Sulfates/Sulfides weight	No Data	5 - 10 by	
Resin by weight	9003-35-4	10 - 30	
Fiberglass weight	65997-17-3	1 - 5 by	266-046-0
Calcium carbonate weight	1317-65-3	1 - 5 by	215-279-6
Aluminum Oxide, Non-fibrous by weight	1344-28-1	30 - 60	215-691-6
Amorphous Silica, Fused by weight	60676-86-0	10 - 30	262-373-8
Titanium dioxide weight	13463-67-7	0 - 1 by	236-675-5

SECTION 4 – FIRST AID MEASURES:

Description of necessary 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 soap and plenty of water. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.



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

Most important symptoms/effects, acute and

delayed: **Other First Aid:** Not

applicable.

Indication of immediate medical attention and special treatment needed:

Note to Physicians: Not applicable.

SECTION 5 – FIRE-FIGHTING MEASURES:

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media: Use alcohol resistant foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires involving this material.

Unsuitable extinguishing media: Not applicable.

Specific hazards arising from the chemical:

Hazardous Combustion Byproducts:

Not applicable.

Unusual Fire Hazards: Not applicable.

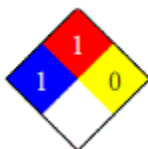
Special protective equipment and precautions for fire-fighters:

Protective Equipment: As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.

Fire Fighting Instructions: Not applicable.

NFPA Ratings:

NFPA Health: 1
NFPA Flammability: 1
NFPA Reactivity: 0



SECTION 6 – ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures:

Personal Precautions: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Use proper personal protective equipment as listed in Section 8.

Environmental precautions:

Environmental Precautions: Avoid runoff into storm sewers, ditches, and

waterways. Methods and materials for containment and cleaning up:



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Spill Cleanup Measures: Not applicable.

Methods and materials for containment and cleaning

up:

Methods for containment: Contain spills with an inert absorbent material such as soil or sand. Prevent from spreading by covering, diking or other means. Provide ventilation.

Methods for cleanup: Clean up spills immediately observing precautions in the protective equipment section. Place into a suitable container for disposal. Provide ventilation. After removal, flush spill area with soap and water to remove trace residue.

Reference to other sections:

Other Precautions: Not applicable.

SECTION 7 – HANDLING AND STORAGE:

Precautions for safe handling:

Handling: Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing. Hygiene Practices: Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid

inhaling vapor or mist. Conditions for safe storage, including any incompatibilities:

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.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION:

EXPOSURE GUIDELINES:

Ingredient	Guideline OSHA	Guideline NIOSH	Guideline ACGIH	Quebec Canada	Ontario Canada
Inorganic fluorides	PEL-TWA 2.5 mg/m3	REL-TWA 2.5 mg/m3	TLV-TWA 2.5 mg/m3		
Fiberglass	PEL-TWA: 1 f/cc as Continuous filament glass		TLV-TWA: 1 f/cc as Continuous filament glass TLV-TWA: 5 mg/m3 as Continuous filament glass		
Calcium carbonate				VEMP-TWA: 10 mg/m3 Total particulate/dust (T)	
Aluminum Oxide, Non-fibrous	PEL-TWA: 5 mg/m3 Respirable fraction (R) PEL-TWA: 15 mg/m3 Total particulate/dust (T)		TLV-TWA: 10 mg/m3	VEMP-TWA: 10 mg/m3 Total particulate/dust (T)	OEL-TWAEV: 10 mg/m3 Total particulate/dust (T)
Amorphous Silica, Fused	OSHA PEL-TWA 0.1 mg/m3	REL-TWA: 0.05 mg/m3 (Respirable)	ACGIH TLV-TWA 0.1 mg/m3	VEMP-TWA: 0.1 mg/m3 Respirable fraction (R)	OEL-TWAEV: 0.1 mg/m3 Respirable fraction (R)
Titanium dioxide			TLV-TWA: 10 mg/m3	VEMP-TWA: 10 mg/m3 Total particulate/dust (T)	OEL-TWAEV: 10 mg/m3 Total particulate/dust (T)
Ingredient	Alberta Canada	Mexico	British Columbia Canada		

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Calcium carbonate	OEL-TWA: 10 mg/m3		OEL-TWA: 10 mg/m3 Total particulate/dust (T) OEL-TWA: 3 mg/m3 Respirable fraction (R) OEL-STEL: 20 mg/m3 Total particulate/dust (T)		
Aluminum Oxide, Non-fibrous	OEL-TWA: 10 mg/m3	MPE-PPT: 0.1 mg/m3 Respirable fraction (R)	OEL-TWA: 3 mg/m3 Respirable fraction (R) OEL-TWA: 10 mg/m3 OEL-TWA: 10 mg/m3 Total particulate/dust (T) OEL-STEL: 20 mg/m3 Total particulate/dust (T)		
Amorphous Silica, Fused	OEL-TWA: 0.1 mg/m3 Respirable fraction (R)	MPE-PPT: 0.1 mg/m3 Respirable fraction (R)			
Titanium dioxide	OEL-TWA: 10 mg/m3 Total particulate/dust (T)	MPE-PPT: 0.1 mg/m3 Respirable fraction (R)	OEL-TWA: 10 mg/m3 Total particulate/dust (T) OEL-TWA: 3 mg/m3 Respirable fraction (R)		

Appropriate engineering controls:

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. Where such systems are not effective 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.

Individual protection measures:

Eye/Face Protection:

Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Skin Protection Description:

Chemical-resistant 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.

Other Protective:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PPE Pictograms:



SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL AND CHEMICAL PROPERTIES:

- Physical State Appearance:** Solid article.
- Color:** Not determined.
- Odor:** Odorless.
- Odor Threshold:** Not determined.
- Boiling Point:** Not determined.
- Melting Point:** Not determined.



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Density: Not determined.
Solubility: Not determined.
Vapor Density: Not determined.
Vapor Pressure: Not determined.
Evaporation Rate: Not determined.
pH: Not determined.
Viscosity: Not determined.

Coefficient of Water/Oil Distribution:

Not determined.

Flammability: Not determined.

Flash Point: None.

Lower Flammable/Explosive Limit: Not applicable. Upper

Flammable/Explosive Limit: Not applicable. Auto Ignition

Temperature: Not applicable.

Explosive Properties: Excessive dust accumulation could present a potential combustible dust

hazard. VOC Content: Not determined.

SECTION 10 – STABILITY AND REACTIVITY:

Reactivity:

Reactivity: Not applicable.

Chemical Stability:

Chemical Stability: Stable under normal temperatures and pressures.

Possibility of hazardous reactions:

Hazardous Polymerization: Not reported. Conditions To

Avoid:

Conditions to Avoid: Heat, flames, incompatible materials, and freezing or temperatures below 32 deg. F.

Incompatible Materials:

Incompatible Materials: Oxidizing agents. Strong acids and alkalis.

Hazardous Decomposition Products:

Special Decomposition Products: Not applicable.



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SECTION 11 – TOXICOLOGICAL INFORMATION:

TOXICOLOGICAL INFORMATION:

Carcinogens:							
	ACGIH	NIOSH	OSHA	IARC	NTP		MEXICO
Aluminum Oxide, Non-fibrous	A4 Not Classifiable as a Human Carcinogen	No Data	No Data	No Data	No Data		A4 Not Classifiable as a Human Carcinogen
Amorphous Silica, Fused	No Data	NIOSH carcinogen	No Data	No Data	No Data		No Data
Titanium dioxide	No Data	No Data	No Data	No Data	No Data		A4 Not Classifiable as a Human Carcinogen

Acute Toxicity: This product has not been tested for its toxicity.

Resin :

RTECS Number: SM8542500

Skin: Administration onto the skin - Rat LD50 : >2 gm/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Ingestion: Oral - Rat LD50 : >5 gm/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Fiberglass :

RTECS Number: LK3651000

Calcium carbonate :

RTECS Number: EV9580000

Aluminum Oxide, Non-fibrous :

RTECS Number: BD1200000

Inhalation: Inhalation - Rat TCLO: 200 mg/m³/5H/28W (Intermittent) [Lungs, Thorax, or Respiration - Structural or functional change in trachea or bronchi; Lungs, Thorax, or Respiration - Chronic pulmonary edema; Related to Chronic Data - death] (RTECS)

Amorphous Silica, Fused :

RTECS Number: VV7328000

Inhalation: Inhalation - Rat TCLO: 197 mg/m³/6H/26W (Intermittent) [Lungs, Thorax, or Respiration - Changes in lung weight] (RTECS)

Titanium dioxide :

RTECS Number: XR2275000

Skin: Skin - Human Standard Draize test. : 300 ug/3D-I - [mild] (RTECS)



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Inhalation: Inhalation - Rat TCLo - Lowest published toxic concentration: 1 mg/kg - [Lungs, Thorax, or Respiration - Other changes Biochemical - Metabolism (Intermediary) - Effect on inflammation or mediation of inflammation] (RTECS)

Ingestion: Oral - Rodent rat TDLo - Lowest published toxic dose: 60 gm/kg - [Gastrointestinal - Hypermotility, diarrhea Gastrointestinal - Other changes] (RTECS)

SECTION 12 – ECOLOGICAL INFORMATION:

Ecotoxicity:

Ecotoxicity: Please contact the phone number or address of the manufacturer listed in Section 1 for information on ecotoxicity.

SECTION 13 – DISPOSAL CONSIDERATIONS:

Description of waste:

Waste Disposal:

Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

SECTION 14 – TRANSPORT INFORMATION:

UN number: Not regulated as hazardous material for transportation.

UN proper shipping name: Not regulated as hazardous material for transportation.

Transport hazard class(es): Not regulated as hazardous material for transportation.

Packing group: Not regulated as hazardous material for transportation.

Environmental hazards: Not regulated as hazardous material for transportation.

Special precautions for user: Not regulated as hazardous material for transportation.

SECTION 15 – REGULATORY INFORMATION:

Safety, health and environmental regulations specific for the product:

Inventory Status

	Japan ENCS	EINECS Number	South Korea KECL	Australia AICS	Canada NDSL
Calcium carbonate					Listed
Aluminum Oxide, Non-fibrous	(1) -23	262-373-8	KE-01012	Listed	
Amorphous Silica, Fused		262-373-8			
Titanium dioxide	(1)-558		KE-33900	Listed	



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	Canada DSL	TSCA Inventory Status
Resin	Listed	Listed
Fiberglass	Listed	Listed
Calcium carbonate		Listed
Aluminum Oxide, Non-fibrous	Listed	Listed
Amorphous Silica, Fused	Listed	Listed
Titanium dioxide	Listed	Listed

Aluminum Oxide, Non-fibrous :

Canada IDL: Identified under the Canadian Hazardous Products Act Ingredient Disclosure List: 0.1%.50(1298)

Amorphous Silica, Fused :

Identified under the Canadian Hazardous Products Act Ingredient Disclosure List: 0.1%.1404(1487)

Canada IDL:

Fiberglass :

266-046-0

EC Number:

Calcium carbonate :

215-279-6

EC Number:

Aluminum Oxide, Non-fibrous :

215-691-6

EC Number:

Amorphous Silica, Fused :

262-373-8

EC Number:

Titanium dioxide :

236-675-5

EC Number:

State Right To Know

	RI	MN	IL	PA	MA
Calcium carbonate				Listed	Listed
Aluminum Oxide, Non-fibrous	Listed	Listed	No Data	Listed	Listed
Amorphous Silica, Fused	Listed				Listed
Titanium dioxide	Listed	Listed	No Data	Listed	Listed
NJ					
Aluminum Oxide, Non-fibrous	Listed: NJ Hazardous List; Substance Number: 2891				
Titanium dioxide	No Data				

SECTION 16 – OTHER INFORMATION:

HMIS Ratings:

HMIS Health Hazard: 1
 HMIS Fire Hazard: 1
 HMIS Reactivity: 0

Health Hazard	1
Fire Hazard	1
Reactivity	0
Personal Protection	