



SDS Number: Bonded Abrasive
Products
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: Bonded Abrasive Products
Specification: Type 1 & Type 27

Forney ITEM#'s: 71791, 71851, 71864, 71883, 71886, 71890, 71892, 71893,
71895, 72308, 72309, 72310, 72318, 72351, 72356, 72357,
72358

SECTION 2 – HAZARDS IDENTIFICATION:

Inhalation, Acute:	Dust Inhalation may cause coughing, shortness of breath or irritation.
Inhalation, Chronic:	Dust Inhalation may affect breathing capacity.
Ingestion:	No known adverse effects, but ingestion not recommended.
Skin:	Not absorbed through skin. Dust may cause irritation/rash to some.
Eye:	Dust may irritate eyes.
Other Potential Risks:	Grinding may create elevated sound levels, which may affect hearing and may aggravate pre-existing respiratory condition.



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SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS:

INGREDIENTS & CHEMICAL IDENTITY (COMMON NAME):	CAS #	%
* Aluminum Oxide (Alumina)	1344-28-1	0% - 95%
* Silicon Carbide (Crystolon)	409-21-2	0% - 90%
* Phenol Formaldehyde (Phenolic Resin)	Non-established	1% - 30%
* Sodium Fluoaluminate (Cryolite)	15096-52-3	0% - 20%
* Fiborous Glass (Fiberglass)	N/A	0% - 20%
* Zirconium Oxide	1314-23-4	0%-80%
* Iron Pyrite	12068-85-8	0%-20%
* Sulfur	7704-34-9	0%-15%
* Calcium Oxide	1305-78-8	0% - 10%
* Iron Oxide	1309-37-1	0%-5%
* Graphite	7782-42-5	0%-5%
* Potassium Fluoroborate	14075-53-7	0%-5%

SECTION 4 – FIRST AID MEASURES:

- Eye Contact: Immediately flush eyes with water for at least 15 to 20 minutes.
Make sure the dust is completely washed off.
Get medical attention, if irritation symptoms develop or persist.
- Skin Contact: Wash skin with soap and rinse plenty of water. Get medical attention if
irritation symptoms develop or persist.
- Inhalation: Remove affected person to fresh air. Apply artificial respiration if necessary.
Seek medical assistant if affected person is still having trouble breathing.
- Ingestion: If accidentally ingested, contact physician for medical attention.

SECTION 5 – FIRE-FIGHTING MEASURES:

- Flammable Property: Non-flammable
- Flash Point: N/A
- Flammable limit: N/A
- LEL: N/A
- UEL: N/A
- Extinguishing Media: Extinguisher and Water



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SECTION 6 – ACCIDENTAL RELEASE MEASURES:

Step to be taken in case of leaks or spills: Ventilate area. Normal clean-up procedures.
Avoid creating dusty conditions.

Waste disposal method: Dispose of in a secured sanitary landfill consistent with applicable Federal, State and Local Laws and Regulations

SECTION 7 – HANDLING AND STORAGE:

Handling: Handle with adequate ventilation (See OSHA 29CFR 1910.94 Ventilation) and 29CFR 1910.1000 (Air Contaminates)

Storage: Store in dry area, away from heat source.
Ideal storage temperature 65-70°F (18-24°C), 50-60% RM

General Hygiene Practices: Wear proper gloves, eye and face protection.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION:

HAZARDOUS COMPONENT	OSHA PEL	ACGIH TLV
* Aluminum Oxide (Alumina)	5mg/m3 respirable fraction, 15mg/m3 total dust	1mg/m3 respirable fraction
* Silicon Carbide (Crysolon)	Non-established	10 mg/m3 inhalable fraction, 3mg/m3 respirable fraction
* Phenol Formaldehyde (Phenolic Resin)	Non-established	Non-established
* Sodium Fluoroaluminate (Cryolite)	2.5 mg/m3	2.5 mg/m3
* Fibrous Glass (Fiberglass)	15mg/m3 total dust, 5mg/m3 respirable fraction	10mg/cu.m total dust, 5mg/m3 respirable fraction
* Zirconium Oxide	5mg/m3	5mg/m3 10mg/m3 Stel
* Iron Pyrite	Non-established	Non-established
* Sulfur	Non-established	Non-established
* Calcium Oxide	5mg/m3	2mg/m3
* Iron Oxide	10mg/m3	5mg/m3 respirable fraction
* Graphite	15mppcf	2mg/m3 respirable fraction
* Potassium Fluoroborate	2.5mg/m3	2.5mg/m3



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Respiratory Protection:	Specify Type, as needed. For Approved Dust Respirators, See OSHA 29CFR 1910.134
Eye and Face Protection:	Always wear safety glasses. Recommended - See OSHA 29 CFR 1910.133 and ANSI Z87.1
Hearing Protection:	Hearing Protection as needed. OSHA 29CFR 1910.95
Skin and Hand Protection:	Wear glove and Lab coat.
Local Exhaust :	Required to keep dust levels below permissible exposure limits.
Mechanical:	Required to keep dust levels below permissible exposure limits.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES:

Physical State Appearance:	Solid	Melting Point: N/A
Flammability:	Non-flammable	Solubility: non-soluble
Odor:	Odorless	Initial Boiling Point: N/A
Vapor Pressure:	N/A	Flash Point: N/A
Vapor density:	N/A	Evaporation Rate: N/A
pH:	N/A	Auto-ignition temperature: Not determined
Relative density:	N/A	Decomposition Temperature & viscosity: N/A

SECTION 10 – STABILITY AND REACTIVITY:

Hazardous Polymerization:	Hazardous polymerization does not occur under normal condition and usage.
Stability:	Stable under normal condition.
Condition to avoid:	Unspecified.
Hazardous decomposition:	Dust from grinding could contain ingredients listed in section 3 and other, potentially more hazardous components of the base material being ground or coatings applied to the base material.

SECTION 11 – TOXICOLOGICAL INFORMATION:

Acute Toxicity:	This product has not been tested for its toxicity.
Ingestion:	If accidentally ingested, contact physician for medical attention.
Inhalation:	Dust inhalation may cause coughing, shortness of breath or irritation.
Skin:	Not absorbed through skin. Dust may cause irritation/rash to some.
Eye:	Dust may irritate eyes.
Other Potential Risks:	Grinding may create elevated sound levels, which may affect hearing and may aggravate pre-existing respiratory condition.
Carcinogenicity:	Silica, Amorphous, Fused - IARC-3, NIOSH-X LD50/LC50 Values are not appropriate or available.



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SECTION 12 – ECOLOGICAL INFORMATION:

Ecotoxicity: No ecotoxicity data was found for the product.
Environmental effects: No known significant effects or hazards.

SECTION 13 – DISPOSAL CONSIDERATIONS:

Waste Disposal Method: Dispose of in a secured sanitary landfill consistent with applicable Federal, State and Local Laws and Regulations.

SECTION 14 – TRANSPORT INFORMATION:

DOT Shipping Name: Not regulated as hazardous material for transportation.
DOT UN Number: Not regulated as hazardous material for transportation.
Transport hazard class: None
Packing Group Number: None
Environmental Hazard: Not regulated as hazardous material for transportation.
label Required: None

SECTION 15 – REGULATORY INFORMATION:

HCS Classification: This product is Exempted from the regulatory requirement HCS

U.S. Federal Regulations: **SARA 311/312 Hazardous Substances:** Not Applicable

EPA TSCA Inventory: All of the ingrediennts are listed

California Proposition 65: WARNING: Dust generated from cut, sand, drill or grind materials such as wood, paint, cement, masonry or metal when using this product offen contains chemicals known to cause cancer, birth defects, or other reproductive harm.

Canadian WHMIS Classification: Not a controlled product.
This product meets the definition of a "manufactured article" under the WHMIS regulations.

Canadian CEPA: None toxic substances. All of the ingredients are listed on the Canadian DSL.



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SECTION 16 – OTHER INFORMATION:

Label Requirement:

Not controlled under O.S.H.A and under W.H.M.S. when used according to Industry safety standard.

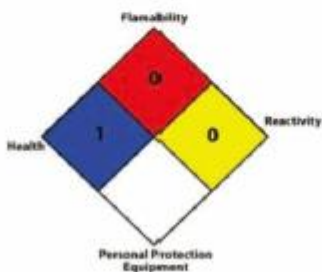
Hazardous Material
Information System (USA)

COATED ABRASIVE	
HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	B

Hazard Ratings

- 4- Extreme
- 3- Serious
- 2- Moderate
- 1- Slight
- 0- Minimal

National Fire Protection
Association



References:

ANSI B7.1 and O.S.H.A regulations