

# FORNEY INDUSTRIES

71888

## MATERIAL SAFETY DATA SHEET

PRINT DATE: Jan-17


### SECTION I COMPANY IDENTIFICATION

Company Name:	Forney Industries, Inc. 2057 Vermont Drive Fort Collins, CO 80525	Phone: 800-521-6038 Email: customerservice@forneyind.com
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### SECTION II MATERIAL DESCRIPTION

TRADE NAME:	RESIN BONDED GRINDING WHEEL	CHEMICAL NAME, CHEMICAL FORMULA:	NA
CHEMICAL FAMILY :	NA	HDSM NUMBER:	1051
SYNONYMS:	RESIN ABRASIVE MATERIAL		

### SECTION III IMPORTANT COMPONENTS

MAY CONTAIN SOME OF THE FOLLOWING HAZARDOUS COMPONENTS		%	CCT, CPT OSHA/PEL mg / m <sup>3</sup>	IPVS ACGIH /TLV mg/ma	REMARKS	HAZARD RAITING
CHEMICAL NAME	COMMON NAME					
(Alpha) Alumina	Aluminum oxide	40- 90	15 (Total dust)	10 (Total dust)	None	  <b>NFPA CODE:</b>  0° MINIMUM 1° SLIGHT 2° MODERATE 3° SERIOUS 40 EXTREME  BLUE HEALTH HAZARD  RED FIRE HAZARD  YELLOW REACTIVITY HAZARD  WHITE ESPECIAL HAZARD
and impurities (CaO, MgO, Fe2O3, SiO2, Na2O)	{Brown, pink, ruby, white, blue, gray}		NA	NA	Depends on type of aluminum oxide	
and alloying elements						
Titanium oxide	Titania		15 (Total dust)	10 (Total dust)	Brown A max 3.5% TiO <sub>2</sub>	
Chromium III oxide	Chromium oxide		05	05	Pink 88A max 0.3% CrO <sub>3</sub> Ruby 91A max 2.2% Cr2O3	
Zirconium oxide	Zirconia		50	50	Gray A2 y ZA max 41% ZrO	
Magnesium oxide	Magnesium oxide	15 0	10 0	Blue SB max 1.5% MgO		
Silicon carbide	Si1hcon carbide	40- 90	15 (Total dust)	10 (Total dust)	None	
<b>Organic matrix of cured :</b> Phenolic resin, shellac, polyester, epox1 and polyurethane	Resin bond	5- 50	15 (Total dust)	10 (Total dust)	None	
Fluondes	Cryolite ( Na. K)	1 -20	2.5	2 5	None	
Calcium oxide	Lime	0 5- 5	5.0	20	None	
Iron disulfide	Pyrites	1 -20	NAIF*	NAIF	None	
Barium sulfate	Barytes	1 -15	15 (Total dust)	10 (Total dust)	None	
Zinc sulfide	Sphalerite	1 -20	NAIF	NAIF	None	
Magnesium (oxide)	Magnesia	1 - 10	15 (Total dust)	10 (Total dust)	None	
Manganese (d1ox1de)	Manganese dioxide	0 1-04	3 ppm	NAIF	None	
Iron oxide	Iron oxide	0.1 -10	15 (Total dust)	10 (Total dust)	None	
Graphite	Graphite	0 1 -10	15 (MPPCF)	5 (Total dust)	None	
Calcium carbonate	Calcite	1 - 15	NAIF	10 (Total dust)	None	
Copper - iron sulfide	Chalcoyrite	1 -20	NAIF	NAIF	None	
Potassium sulfate	Potassium sulfate	1 - 15	NAIF	NAIF	None	
Sodium chloride	Salt	1 - 5	15 (Total dust)	10 (Total dust)	None	
Fiber glass	Fiber glass	1 -10	ND	10 (Total dust)	None	
Chromium (oxide)	Chromium III oxide	0 03-0 1	0.5	05	None	

### SECTION IV PHYSICAL AND CHEMICAL DATA

BOILING POINT (°C) :	NA	MELTING POINT (°C) :	NA
FLASH POINT (°C) :	NA	AUTOIGNITION TEMPERATURE (°C):	NA
SPECIFIC GRAVITY:	NA	VAPOR DENSITY (air= 1) :	NA
MOLECULAR WEIGHT :	NA	APPEARANCE, ODOR AND PHYSICAL STATE:	
EVAPORATION RATE (butyl acetate = 1) :	NA	SOLID. MAY GIVE OFF SOME ODOR IN USE.	
VAPOR PRESSURE:	NA	SOLUBILITY IN WATER (%):	SLIGHT
EXPLOSION LIMITS IN AIR :		VOLATILES (% BY WEIGHT) :	NA
LOWER	NA	UPPER	NA
ADDITIONAL INFORMATION :		NAIF	

### SECTION V FIRE AND EXPLOSION HAZARD DATA

<b>EXTINGUISHING MEDIA:</b>			
WATER SPRAY	<input checked="" type="checkbox"/>	FOAM	<input type="checkbox"/>
		CO2	<input type="checkbox"/>
		DRY CHEMICAL POWDER	<input type="checkbox"/>
<b>FIRE FIGHTING EQUIPMENT:</b>			
GLOVES	<input checked="" type="checkbox"/>	EYES PROTECTION	<input checked="" type="checkbox"/>
OTHER. FULL FACE PIECE POSITIVE PRESSURE SELF - CONTAINED BREATHING APPARATUS.		RESPIRATOR	<input checked="" type="checkbox"/>
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b> WEAR SELF CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.			
UNUSUAL FIRE AND EXPLOSION HAZARD: NAIF			
<b>HAZARDOUS COMBUSTION PRODUCTS:</b> CARBON MONOXIDE, CARBON DIOXIDE			

**SECTION VI REACTIVITY DATA**

<b>STABILITY:</b>	STABLE <input checked="" type="checkbox"/>	UNSTABLE <input type="checkbox"/>	<b>CONDITION TO AVOID:</b>
			HUMIDITY
<b>INCOMPATIBILITY:</b>	ALCALIES WITH pH> 10.0 AND AQUEOUS SOLUTIONS		<b>HAZARDOUS DESCOMPOSITION PRODUCTS:</b>
			IN USE, ORGANIC FUMES ARE GENERATED
<b>HAZARD POLYMERIZATION:</b>	MAY OCCUR <input type="checkbox"/>	WILL NOT OCCUR	<input checked="" type="checkbox"/>
<b>CONDITIONS CONTRIBUTING TO HAZARDOUS POLIMERIZATION:</b>	NAIF		

**SECTION VII HEALTH HAZARD INFORMATION**

<b>1st. PART</b>		<b>HEALTH HAZARD</b>	
<b>BY ACUTE EXPOSURE (DURING GRINDING)</b>	a) <b>INGESTION:</b>	NO KNOWN ADVERSE EFFECTS, BUT INGESTION NOT RECOMMENDED.	
	b) <b>INHALATION:</b>	COUGHING, SHORTNESS OF BREATH.	
	c) <b>SKIN (CONTACT &amp; ABSORTION):</b>	SOME MAY EXPERIENCE SKIN IRRITATION FROM DUST.	
	d) <b>EYES (CONTACT):</b>	DUST MAY IRRITATE EYES.	
<b>BY CHRONIC EXPOSURE:</b> (INHALATION) MAY AFFECT BREATHING CAPACITY.			
<b>CHEMICAL SUBSTANCE IS CONSIDERED LIKE CARCINOGENIC:</b>			
STPS (NOM-010-STPS)	YES <input type="checkbox"/>	NO	<input checked="" type="checkbox"/>
<b>APPROVED SOURCE</b>	YES <input type="checkbox"/>	NO	<input type="checkbox"/>
<b>COMPLEMENTARY INFORMATION (DL<sub>50</sub>, CL<sub>50</sub>):</b> ND			
<b>2nd. PART</b>		<b>FIRST - AID MEASURES</b>	
a) <b>EYES:</b> WASH WITH LARGE AMOUNTS OF WATER, OBTAIN FIRST AID OR MEDICAL ASSISTANCE, IF NEEDED.			
b) <b>SKIN:</b> OBTAIN FIRST AID OR MEDICAL ASSISTANCE, IF NEEDED.			
c) <b>INGESTION:</b> OBTAIN FIRST AID OR MEDICAL ASSISTANCE, IF NEEDED.			
d) <b>INHALATION:</b> OBTAIN FIRST AID OR MEDICAL ASSISTANCE, IF NEEDED.			
<b>OTHER POTENTIAL HEALTH RISKS:</b> GRINDING MAY CREATE ELEVATED SOUND LEVELS WHICH MAY AFFECT HEARING.			
<b>ANTIDOTE (IF EXIST):</b> NA			

**SECTION VIII STEPS TO BE TAKEN IF MATERIAL IS REALEASED OR SPILLED**

<b>NORMAL CLEANUP PROCEDURES:</b>
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**SECTION IX PERSONAL PROTECTION**

<b>PERSONAL PROTECTION EQUIPMENT:</b>			
GLOVES	<input checked="" type="checkbox"/>	EYES PROTECTION	<input checked="" type="checkbox"/>
OTHER. NIOSH APPROVED RESPIRATOR IF TLV IS EXCFEDED. SEE OSHA 29 CFR 1910.34		RESPIRATOR	<input checked="" type="checkbox"/>
<b>VENTILATION:</b>	LOCAL <input checked="" type="checkbox"/>	MECHANICAL (GENERAL)	<input checked="" type="checkbox"/>

**SECTION X TRANSPORT INFORMATION**

NAIF
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**SECTION XI ECOLOGICAL INFORMATION**

THE WASTE DISPOSAL METHOD MUST BE CONSISTENT WITH APPLICABLE FEDERAL, STATE AND LOCALS LAWS.
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**SECTION XII**

**SPECIAL PRECAUTIONS**

**STORAGE, HANDLING AND USE PROCEDURES:** ABRASIVE WHEELS SHOULD BE STORED UNDER NORMAL CONDITIONS OF HEAT AND HUMIDITY  
SEE ANSI STANDARD 67.1 AVOID DAMAGE. DO NOT DROP.

**OTHER PRECAUTIONS:** DO NOT USE DROPPED OR DAMAGED WHEELS. DO NOT USE WITHOUT MACHINE GUARD IN PLACE.  
RPM MARKED ON WHEEL.

\* NAIF : NO APPLICABLE INFORMATION FOUND NA: NOT APPLICABLE