

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 ³	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	 NFPA CODE: 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 ₂	
Chromium III oxide	Chromium oxide		05	05	Pink 88A max 0.3% CrO ₃ 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	
Organic matrix of cured : 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

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

SECTION VI REACTIVITY DATA

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

SECTION VII HEALTH HAZARD INFORMATION

1st. PART		HEALTH HAZARD	
BY ACUTE EXPOSURE (DURING GRINDING)	a) INGESTION:	NO KNOWN ADVERSE EFFECTS, BUT INGESTION NOT RECOMMENDED.	
	b) INHALATION:	COUGHING, SHORTNESS OF BREATH.	
	c) SKIN (CONTACT & ABSORTION):	SOME MAY EXPERIENCE SKIN IRRITATION FROM DUST.	
	d) EYES (CONTACT):	DUST MAY IRRITATE EYES.	
BY CHRONIC EXPOSURE: (INHALATION) MAY AFFECT BREATHING CAPACITY.			
CHEMICAL SUBSTANCE IS CONSIDERED LIKE CARCINOGENIC:			
STPS (NOM-010-STPS)	YES <input type="checkbox"/>	NO	<input checked="" type="checkbox"/>
APPROVED SOURCE	YES <input type="checkbox"/>	NO	<input type="checkbox"/>
COMPLEMENTARY INFORMATION (DL₅₀, CL₅₀): ND			
2nd. PART		FIRST - AID MEASURES	
a) EYES: WASH WITH LARGE AMOUNTS OF WATER, OBTAIN FIRST AID OR MEDICAL ASSISTANCE, IF NEEDED.			
b) SKIN: OBTAIN FIRST AID OR MEDICAL ASSISTANCE, IF NEEDED.			
c) INGESTION: OBTAIN FIRST AID OR MEDICAL ASSISTANCE, IF NEEDED.			
d) INHALATION: OBTAIN FIRST AID OR MEDICAL ASSISTANCE, IF NEEDED.			
OTHER POTENTIAL HEALTH RISKS: GRINDING MAY CREATE ELEVATED SOUND LEVELS WHICH MAY AFFECT HEARING.			
ANTIDOTE (IF EXIST): NA			

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

ii	NORMAL CLEANUP PROCEDURES.
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SECTION IX PERSONAL PROTECTION

PERSONAL PROTECTION EQUIPMENT:			
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"/>
VENTILATION:	LOCAL <input checked="" type="checkbox"/>	MECHANICAL (GENERAL)	<input checked="" type="checkbox"/>

SECTION X TRANSPORT INFORMATION

NAIF

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