

MATERIAL SAFETY DATA SHEET

SECTION 1

PRODUCT NAME OR NUMBER REANCE™		
MANUFACTURER'S NAME The Electrodyne Company		EMERGENCY TELEPHONE NO. (513) 732-2822
ADDRESS (Number, Street, State and Zip Code) 4188 Taylor Rd., Batavia, Ohio 45103		MANUFACTURER'S D-U-N-S NO. 063992614
HAZARDOUS MATERIAL DESCRIPTION, PROPER SHIPPING NAME. HAZARD CLASS ID NO (49 CFR 172.101)		
ADDITIONAL HAZARD CLASSES (as applicable)		
CHEMICAL FAMILY Alloy in Elastomer Binder Iron	FORMULA Nd2Fe14B in elastomer binder	

SECTION II

(list all ingredients)

CAS REGISTRY NO	%W	%V	CHEMICAL NAME(S)	Listed as a Carcinogen in NTP, LARC or OSHA 1910(z) (specify)
7440-00-8	27-31		Neodymium	
7440-42-8	1		Boron	
7439-89-6	Bal		Iron	
	4		Elastomer	
	4		Inert Filler	

SECTION III – PHYSICAL DATA

BOILING POINT		SPECIFIC GRAVITY (H₂O = 1)	5.5
VAPOR PRESSURE @ <u>25</u> °C mm Hg		PERCENT VOLATILE BY VOLUME (1%)	
VAPOR DENSITY (AIR = 1)		EVAPORATION RATE (=1)	
SOLUBILITY IN WATER		PH=	
APPEARANCE AND ODOR Metallic gray, no odor		IS MATERIAL: LIQUID SOLID GAS PASTE POWDER	

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT _____ °F _____ °C	FLAMMABLE LIMITS	LEL	UEL
EXTINGUISHING MEDIA Not applicable for solid magnets. For dry powder produced as a grinding by product. Use sand, Met-L-X, or Na-X.			
SPECIAL FIRE FIGHTING PROCEDURES For grinding powder, cover with sand, Met-L-X, or Na-X.			
Do not use water, CO₂, or halogens if material is ignited.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Not applicable for solid magnets. Fine powder may ignite at room temperature in air. Probably will react with water and release hydrogen slowly.			

SECTION V – HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE – Conditions To Avoid	THRESHOLD LIMIT VALUE PERMISSIBLE EXPOSURE LIMIT
In normal use, solid magnets are not hazardous.	OTHER LIMIT
Fine powder from grinding or machining can cause irritation.	
PRIMARY ROUTES OF ENTRY <u>Inhalation</u> Skin Contact Other (specify)	
EMERGENCY AND FIRST AID PROCEDURES Wash with soap & water. Flush dust from eyes with water.	

SECTION V1 REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (materials to avoid) Strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Irritating dust, hydrogen may be liberated when water or moisture reacts with fine powder.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION V11 SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED None required for solid magnets.	
For powder or dust, refer to NFPA-651 Chapter 6 for further information.	
WASTE DISPOSAL METHOD Usual solids disposal per Federal, State & Local Codes.	
CERCLA (Superfund) REPORTABLE QUANTITY (in lbs)	
RCRA HAZARDOUS WASTE NO. (40CFR 251.33)	
VOLATILE ORGANIC COMPOUND (VOC) (as packaged, minus water)	
THEORETICAL	ANALYTICAL

SECTION V11 SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) None required for solid magnets. For powder or dust, use NIOSHA approved dust masks.		
VENTILATION	LOCAL EXHAUST (Specify Rate) To meet occupational exposure limits.	SPECIAL
	MECHANICAL (General) (Specify Rate) Spark-free	OTHER
PROTECTIVE GLOVES (Specify type) Wear impervious gloves for powder.		EYE PROTECTION Protect from dust.

SECTION 1X SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	May be magnetized. None required for solid magnets.
OTHER PRECAUTIONS Treat powder or dust as flammable solids.	

PREPARED BY:

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	Date 5-10-02