MATERIAL SAFETY DATA SHEET

MSDS No. 700A354

PRODUCT NAME: TT-P-320D, TYPE I, CLASS A, ALUMINUM POWDER

HMIS CODES:HEALTH 2 FIRE 2 REACTIVITY 2 PERSONAL PROTECTION E

SECTION I: MANUFACTURER IDENTIFICATION

MANUFACTURER NAME: MACH-DYNAMICS

ADDRESS: 3870 La Sierra Avenue, Suite 212, Riverside, CA 92505

INFORMATION PHONE: (951) 515-3748 FAX: (775) 599-4585

PREPARED BY: MARK GINGERELLA

DATE REVISED: APR-12-2004 (01-06-99)

REASON REVISED: Format (Prop 65 Statement)

EMERGENCY PHONE: CHEMTRC 1-800-424-9300

SECTION II: HAZARDOUS INGREDIANTS / SARA III INFORMATION

HAZARDOUS COMPONENT	CAS No.	OSHA PEL	ACCIW TLV	OTHER	mm Hg @ Temp	Percent
*Aluminum Flake Powder	7429-90-5	10 MG/M3	N/A	N/A	N/A	100

*No TOXIC CHEMICAL(S) SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND OF 40 CFR 372. *WARNING THIS PRODUCT CONTAINS CHEMICALS KNOW TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.*

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SECTION III: PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: 4,766 Deg F

SPECIFIC GRAVITY (H20=1): 8.0

VAPOR DENSITY: HEAVIER THAN AIR

EVAPORATION RATE: SLOWER THAN ETHER

MATERIAL V.O.C.: N/A

SOLUBILITY IN WATER: ESSENTIALLY NIL

APPEARANCE AND ODOR: Aluminum Powder

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

Flash Point N/A

Method Used: N/A

Flammable Limits In Air By Volume: Lower: 0.9% Upper: 7.0%

Extinguishing Media: Foam, CO2, Dry Chemical, Water Fog

Special Fire Fighting Procedures: Approved gas mask required for fire fighting personnel. Water may be ineffective. Water may be used to cool containers. If water is used, fog nozzles are preferred.

Unusual Fire And Explosion Hazards: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to heat.

SECTION V: REACTIVITY DATA

Stability: Stable

Conditions To Avoid: Flames, Sparking, Smoking, and Heat.

Incompatibility or Materials to Avoid: Strong Oxidizing Agents.

Hazardous Decomposition or By Products: carbon Monoxide and Carbon Dioxide.

Hazardous Polymerization: Will Not Occur.

SECTION VI: HEALTH HAZARD DATA

INHALATION HEALTH RISK AND SYMPTOMS OF EXPOSURE:

Breathing of high vapor concentrations may cause drowsiness, dizziness, fatigue, followed by coma.

SKIN AND EYE CONTACT HEALTH RISK AND SYMPTOMS OF EXPOSURE:

EYE: Direct contact and/or contact with vapors may cause irritation.

SKIN: Prolonged and/or repeated contact may cause irritation and/or dermatitis. May be absorbed through the skin.

SKIN ABSORBTION HEALTH RISK AND SYMPTOMS OF EXPOSURE: Prolonged or repeated exposure can cause moderate irritation, defatting, and dermatitis.

INGESTION HEALTH RISK AND SYMPTOMS OF EXPOSURE: Aspiration of this product into the lungs may cause pneumontitis, pulmonary edema, and hemorrhage. Ingestion may cause gastrointestinal disturbances.

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SECTION VI: HEALTH HAZARD DATA continued

HEALTH HAZARDS -- ACUTE AND CRONIC:

Direct contact to eyes may cause irritation, prolonged and/or repeated contact may cause skin irritation. Inhalation of high concentrations of vapors may lead to lung changes, nausea, vomiting, cough, pulmonary irritation, and central nervous system depression. Ingestion may cause gastrointestinal disturbance. Aspiration of this product into the lungs may cause pneumontitis, pulmonary edema and hemorrhage.

CARCINOGENICITY: NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Individuals with preexisting diseases in or history of ailments involving skin, central nervous system, liver, and kidney.

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES, SEEK MEDICAL AID.

SKIN: WASH THOROUGHLY WITH SOAP AND WATER. SEEK MEDICAL AID IF IRRITATION PERSIST.

INGESTION: IMMEDIATELY SEEK MEDICAL AID, DO NOT INDUCE VOMITING.
DO NOT ATTEMPT TO GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

INHALATION:

SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Stop leak if no risk involved. Remove all sources of ignition, stay upwind. Absorb with inert material. Flush area with water. Ventilate area for at least 24 hours or until area has been declared safe.

WASTE DISPOSAL METHODS:

Use inert absorbent material on spills. Dispose of in accordance with all Federal, State, and Local Regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Keep containers closed and upright to prevent leakage. Avoid flames, welding, open lights, etc. Avoid breathing of vapor and spray mist. Avoid skin and eye contact.

OTHER PRECAUTIONS: Maintain good personal hygiene.Do Not Use in confined areas, tank or pit, without adequate ventilation.

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SECTION VIII: CONTROL MEASURES

RESPIRATORY PROTECTION:

If ventilation does not maintain inhalation exposures below TLV (PEL), use MSHA/NIOSH approved units. Use units per current 29 CFR1910.134 and follow manufacturer's instructions and warnings. If within OSHA protection factor, air purifying OV/filter units OK for use.

VENTILATION: Local and mechanical exhaust.

PROTECTIVE GLOVES: Rubber gloves.

EYE PROTECTION: Safety glasses with side shields or goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eye bath and safety shower.

WORK/HYGIENIC PRACTICES: Maintain good personal hygiene. Do not use in confined areas without adequate ventilation.

SECTION IX: DISCLAIMER

AS THE CONDITIONS OR METHODS ARE BEYOND OUR CONTROL WE DO NOT ASSUME ANY RESPONSIBILITY REGARDING USE OF PRODUCT. WE EXPRESSLY DISCLAIM ANY LIABILITY FOR ANY USE OF THE MATERIAL. INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE, ALL STATEMENTS OR SUGGESTIONS ARE MADE WITHOUT ANY WARRANTY, EXPRESSED OR IMPLIED TO THE ACCURACY OF THE DOCUMENT.

SECTION X: TRANSPORTATION DATA

GROUND:

PROPER SHIPPING NAME:

HAZARD CLASS:

UN/NA NUMBER:

APPLICABLE REGULATION: 49 CFR 171-179

U.S. POSTAL REGULATION: NOT SHIPPABLE

LABEL:

DISPOSAL INFORMATION:

THIS PRODUCT IS A US EPA DEFINED IGNITABLE HAZARDOUS WASTE. DISPOSE OF AS AN IGNITABLE HAZARDOUS WASTE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. AVOID STORING MATERIAL NEXT TO OR NEAR OXIDIZING MATERIALS. EPA IGNITABLE.

AIR:

PROPER SHIPPING NAME:

HAZARD CLASS:

UN/NA NUMBER:

LABEL:

PACKAGING GROUP: CONSULT IATA MANUAL

APPLICABLE REGULATION: IATA

U.S. POSTAL REGULATION: NOT SHIPPABLE

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