

MATERIAL SAFETY DATA SHEET

Date revised: 01/23/02

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ZYNOLYTE SUPER METALS

Zynolyte is a registered trademark of the Glidden Company

This MSDS covers the products listed below

SECTION I - MANUFACTURER IDENTIFICATION



Manufacturer: Aervoe Industries Incorporated
Address: 1198 Mark Circle, Gardnerville, NV 89410

Emergency Telephone No (Chemtrec): 1-800-424-9300
Information Telephone No: (775) 782-0100

SECTION II: HAZARDOUS INGREDIENTS / SARA III INFORMATION / OCCUPATIONAL EXPOSURE LIMITS

Common Name	Hydrocarbon Propellant	Toluene	Ethylbenzene	Copper Powder	Xylene	Solvent, Heavy Aromatic Naptha
	Hydrocarbon Propellant	Benzene, Methyl	Benzene, Ethyl	Copper	Benzene, Dimethyl	Solvent, Heavy Aromatic Naptha
CAS #	68476-86-8	108-88-3	100-41-4	7440-50-8	1330-20-7	64742-94-5
ACGIH -TLV (TWA)	1000 ppm	50 ppm (skin)	100 ppm	1.0 mg/m3	100 ppm	NA
OSHA -PEL (TWA)	1000 ppm	200 ppm	100 ppm	1.0 mg/m3	100 ppm	NA
SARA 313 Listed	no	yes	yes	yes	yes	no
Super Metal Finish						
Code	Description	wt %	wt %	wt %	wt %	wt %
0160	Super Chrome	30% - 40%	40% - 50%			
0165	Super Copper	30% - 40%	20% - 30%	1% - 5%	5% - 10%	1% - 5%
0170	Super Gold	40% - 50%	20% - 30%	1% - 5%	5% - 10%	1% - 5%
0175	Super Brass	40% - 50%	20% - 30%	1% - 5%	5% - 10%	



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SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

SPECIFIC GRAVITY (H₂O = 1): 0.7 - 0.8

PHYSICAL STATE: Aerosol

VAPOR DENSITY: Heavier than air

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 1° F / -17° C

METHOD USED: SETA

FLAMMABLE LIMITS: LEL: 1.8 % UEL: 9.5 %

EXTINGUISHING MEDIA: Dry chemical or foam, water fog, carbon dioxide

FIRE FIGHTING PROCEDURES: Water may be used to cool and protect exposed containers. Fire fighters should use full protective clothing and a self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may explode when exposed to extreme heat or fire. Vapors are extremely flammable and may form explosive mixtures in air. Vapors are heavier than air and may travel long distances to a source of ignition and flash back.

FLAMMABILITY: Yes - flammable aerosol under conditions of sparks, flame or hot surfaces.

SENSITIVITY TO IMPACT: Contents under pressure, do not puncture.

SECTION V - REACTIVITY DATA

STABILITY: Stable **CONDITIONS TO AVOID:** Elevated temperatures, contact with oxidizing agent, moisture, sparks, open flame, ignition sources.

MATERIALS TO AVOID: Oxidizers, acids, bases, reducing agents, halogens, metal salts.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon monoxide, carbon dioxide, copper compounds.

HAZARDOUS POLYMERIZATION: Will not occur

SECTION VI - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Inhalation, skin contact, eye contact, ingestion.

EFFECTS OF OVEREXPOSURE (SIGNS AND SYMPTOMS):

INHALATION: Prolonged inhalation may lead to loss of appetite, mucous membrane irritation, fatigue, drowsiness, dizziness, and/or light-headedness, headache, uncoordination, nausea, vomiting, difficulty with speech, apathy, central nervous system depression, intoxication, tightness of chest, metallic taste, confusion, anesthetic effect or narcosis, difficulty of breathing, blood abnormalities, bronchitis, tremors, liver damage, kidney damage, neurotoxicity, convulsions, loss of consciousness, respiratory failure, asphyxiation, death.

SKIN CONTACT: Irritation of skin. Prolonged or repeated contact may cause dermatitis, defatting, blistering.

EYE CONTACT: Irritation of eyes. Prolonged or repeated contact may cause conjunctivitis, blurred vision, tearing, redness, severe irritation, corneal injury, blindness.

INGESTION: May cause mouth and throat irritation, mucous membrane irritation, fatigue, drowsiness, dizziness, headache, uncoordination, nausea, vomiting, diarrhea, gastro-intestinal disturbances, intoxication, difficulty breathing, liver damage, kidney damage, pulmonary edema.

OSHA LISTED CARCINOGENS: None

TERATOGENICITY: No teratogenic effects are anticipated **MUTAGENICITY:** No mutagenic effects are anticipated

TOXICOLOGICALLY SYNERGISTIC PRODUCT: N/A

MEDICAL CONDITION GENERALLY AGGRAVATED BY EXPOSURE: Eye, skin, respiratory disorders, kidney disorders, liver disorders, blood disorders, nervous system disorders.

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: If affected, remove to fresh air. If signs or symptoms persist, seek medical attention.

SKIN CONTACT: Wash affected area, remove contaminated clothing. If signs or symptoms persist, seek medical attention.

EYE CONTACT: Flush immediately with water for at least 15 minutes. If signs or symptoms persist, seek medical attention.

INGESTION: If swallowed, seek medical attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition - Flames, sparks, static electricity & electrical.

Ventilate area with explosion proof equipment, avoid run off into sewer by diking, and soak up with inert absorbent, use non-sparking type tools.

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Do not store above 120° F / 49° C. Do not store or use near heat, sparks or flame.

OTHER PRECAUTIONS: Do not get in eyes. Do not breathe vapors. Avoid skin contact. Do not take internally. Smoking while using this product must be strictly prohibited. In addition to all other hazards and precautions - dust from sanding the dry paint films should be treated as a nuisance dust with a **OSHA PEL (TWA)** of 15 mg/cubic meter.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: Outdoors - Recommend an approved mechanical particulate filter to remove any airborne overspray. In restricted areas with poor ventilation, use a NIOSH approved Organic Cartridge Respirator. For concentrations above the exposure limit, use a positive air supplied respirator.

VENTILATION: All application areas should be adequately ventilated in order to keep the items in SECTION II below their exposure limits.

PROTECTIVE GLOVES: Impervious gloves (natural rubber) are recommended to prevent skin contact.

EYE PROTECTION: Safety glasses with side shields, or goggles, are recommended to prevent eye contact.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Impervious apron (natural rubber) is recommended to prevent skin contact. Eye wash fountain and safety shower.

WORK / HYGIENIC PRACTICES: Avoid prolonged or repeated contact. Do not breathe vapors. Wash contaminated clothing prior to reuse.

SECTION IX - DISCLAIMER

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE SO.

NOTHING CONTAINED HEREIN CONSTITUTES A SPECIFICATION NOR IS IT INTENDED TO WARRANT SUITABILITY FOR THE INTENDED USE.