Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY
DYE-N-SEAL PLAQUE GOLD 7490

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name HORIZONS INCORPORATED, Metalphoto Division	Emergency Telephone Number (216) 475-0555
Address (Number, Street, City, State, and ZIP Code) 18531 South Miles Road	Telephone Number for Information (216) 475-0555
Cleveland, OH 44128	Date Prepared 6/26/95
	Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))		OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
ALUMINUM FAST BRONZE L	PROPRIETARY	NA	NA	NA	4
STARCH	CAS 9005-25-8	15mg/m^3	10mg/m^3	NA	3
COPPER AS PART OF DYE	CAS 7440-50-8	1mg/m^3	1mg/m^3	NA	0.2
ALUMINUM FAST GOLD L	PROPRIETARY	NA	NA	NA	10
HEXYLENE GLYCOL	CAS 107-41-5	25PPM	25PPM	NA	,1
BENZOIC ACID	CAS 65-85-0	NA	NA	NA	<13
NICKEL ACETATE	CAS 373-02-4	1mg/m^3	0.1mg/m^3	NA	47-56
SODIUM NAPHTHALENE					
SULFONATE FORMALDEHYDE					
COPOLYMER	CAS 9084-06-4	NA	NA	NA	17-26

THIS PRODUCT CONTAINS A NICKEL SALT AND IS
SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY
PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND 40 CFR 372.

Section III - Physical/Chemical Characteristics

Boiling Point	NA	Specific Gravity (H2O = 1)	NA
Vapor Pressure (mm Hg)	NA	Melting Point	N/A
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water
SOLUBLE

Appearance and Odor
DARK ORANGE-RED POWDER, MILD ODOR

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
NA	NA	NA	NA

Extinguishing Media
ANY

Special Firefighting Procedures
NONE

Unusual Fire and Explosion Hazards
NONE

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid NONE KNOWN
	Stable	X	

Incompatibility (Materials to Avoid)
STRONG OXIDIZING AGENTS

Hazardous Decomposition or Byproducts
THERMAL DECOMPOSITION MAY PRODUCE OXIDES OF CARBON, NITROGEN AND SULFUR

Hazardous Polymerization	May Occur		Conditions to Avoid NONE KNOWN
	Will Not Occur	X	

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	AVOID	AVOID	AVOID

Health Hazards (Acute and Chronic)
NICKEL AND ITS SALTS ARE REPORTED TO CAUSE LUNG DAMAGE AND ARE

CLASSIFIED AS CARCINOGENIC.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
NICKEL SALT	YES	YES	YES

Signs and Symptoms of Exposure
EYE OR SKIN CONTACT OR INHALATION OF POWDER MAY CAUSE IRRITATION. INGESTION MAY CAUSE NAUSEA.

Medical Conditions
Generally Aggravated by Exposure

NONE KNOWN

Emergency and First Aid Procedure
SKIN-WASH WITH SOAP AND WATER. EYES-FLUSH WITH WATER FOR 15 MINUTES, CALL PHYSICIAN.

INHALATION-REMOVE TO FRESH AIR. INGESTION-CONSULT PHYSICIAN.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled
CONTAINS HEAVY METALS. SPILLS SHOULD BE SWEPT OR SHOVELED AND COLLECTED FOR DISPOSAL.

Waste Disposal Method
CONTAINS NICKEL SALT. SMALL AMOUNTS MAY BE TREATED IN AEROBIC WASTEWATER TREATMENT

SYSTEM, OR ELSE INCINERATE OR LANDFILL IN APPROVED SYSTEMS ACCORDING TO ALL REGULATIONS.

Precautions to be Taken in Handling and Storage
KEEP CONTAINERS CLOSED. AVOID GETTING ON SKIN OR IN EYES WHEN HANDLING.

Other Precautions
NONE

Section VIII - Control Measures

Respiratory Protection (Specify Type)
USE NIOSH APPROVED RESPIRATOR OR DUST MASK, IF NEEDED.

Ventilation	Local Exhaust RECOMMENDED	Special NONE
	Mechanical (General) MAY BE USED	Other NONE

Protective Gloves RUBBER	Eye Protection SAFETY GLASSES

Other Protective Clothing or Equipment
SUITABLE TO PREVENT SKIN CONTACT.

Work/Hygenic Practices
NORMAL PERSONAL HYGIENE (CLEANLINESS) IS SATISFACTORY.