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SECTION I - IDENTIFICATION OF PRODUCT

supplier's name: Mason Color Works, Inc. emergency telephone no.: 216-385-4400
 address: 250 E. 2nd Street, P.O. Box 76, East Liverpool, Ohio 43920

date this form prepared: DEC - 1990 Responsible for preparation: Ronald K. Mason Chemical Family: Inorganic Pigment:
 Trade Name: CAS 68187-12-2 *
 & Synonyms: Flesh 6098 (K-3788) Number 68186-93-6 * 10101-52-7 *
 Chemical Name: Basic CaO.SnO.SiO₂: Cr₂O₃
 & Synonyms: Cr Sn V Coral Chemical Formula + (Sn,V)O₂

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	% Wt.	ACGIH-TWA ()	OSHA-PEL
TIN OXIDE CAS # 18282-10-5	35%-40%	2 mg/m ³ as Sn	2 mg/m ³ as Sn
CALCIUM OXIDE CAS # 1305-78-8	10%-15%	2 mg/m ³	5 mg/m ³
SILICA, CRYSTALLINE (QUARTZ) CAS # 14808-60-7	25%-30%	10 mg/m ³ as dust	10 mg/m ³ as dust
CHROME OXIDE CAS # 1308-38-9	less than 5%	0.5 mg/m ³ as Cr	1.0 mg/m ³ as Cr metal & insol. salts
BORON OXIDE CAS # 1303-86-2	less than 5%	10 mg/m ³	25 mg/m ³
FLUORIDE CAS # 7789-75-5	less than 5%	2.5 mg/m ³	2.5 mg/m ³ as dust
VANADIUM OXIDE CAS # 12036-21-4	less than 5%	0.05 mg/m ³	0.5 mg/m ³ as dust 0.1 mg/m ³ as fumes
ALUMINA OXIDE CAS # 1344-28-1	less than 5%	10 mg/m ³	15 mg/m ³ as Al
ZIRCONIUM OXIDE CAS # 1314-23-4	10%-15%	5 mg/m ³ as Zr	5 mg/m ³ as Zr

MATERIAL SAFETY DATA SHEET

SECTION III - PHYSICAL DATA

boiling point(°F) N/A	appearance & odor Pink powder-odorless	specific gravity (water=1) N/A	% volatile by volume None
solubility in water Trace	vapor pressure (mm Hg) N/A	vapor density (air=1) N/A	evaporation rate None

SECTION IV - FIRE AND EXPLOSIVE DATA

flash point (method used) Non-flamable	flammable limits N/A	LEL	UEL
extinguishing media Carbon dioxide, dry chemical or water spray.			

special fire fighting procedures Not a fire hazard. Wear self-contained breathing apparatus when large quantities are involved.

unusual fire & explosion hazard
None expected.

SECTION V - HEALTH HAZARD DATA

occupational exposure limits

See Section II

effect of overexposure

- EYE - May cause irritation.
- SKIN - Skin contact may cause irritation, allergic dermatitis.
- INHALATION - Inhalation of concentration above the Occupational Exposure Limit may cause irritation of respiratory passages. For detail see Section IX, additional information.
- INGESTION - Toxic, may cause excessive coughing, intestinal disorders.

EMERGENCY AND FIRST AID PROCEDURES

- EYE - Flush thoroughly with potable water for 15 minutes. Consult physician.
- SKIN - Remove contaminated clothing, wash thoroughly with soap & water. Consult physician.
- INHALATION - Remove to fresh air. May give oxygen. Consult physician.
- INGESTION - Induce vomiting if conscious. Consult physician.

SECTION VI - REACTIVITY DATA

STABILITY	unstable	conditions to avoid N/A	hazardous polymerization	may occur	conditions to avoid N/A
	stable X			will not occur X	

incompatibility (materials to avoid)

N/A

hazard decomposition products

Toxic fumes of oxides may be present during decomposition.

SECTION VII - SPILL OR LEAK PROCEDURES

steps to be taken in case material is released or spilled

Contain spill. Pick up the spill in an appropriate container for disposal.

waste disposal method

Dispose in accordance with Federal, State and Local Laws.

SECTION VIII - SPECIAL PROTECTION INFORMATION

respiratory protection (specific type) Use NIOSH approved respiratory protection where airborne level exceeds appropriate Occupational Exposure Limit.

ventilation	local exhaust	special
	X	N/A
	mechanical (general)	other
	X	Adequate to maintain below exposure limit.

personal protective equipment Wear appropriate gloves and goggles to avoid skin and eye contact. Safety showers and eyewash stations must be present in work area.

SECTION IX - SPECIAL PRECAUTIONS

precaution to be taken in handling & storing Keep container closed. Protect against physical damage. Avoid contact with eyes, skin, and clothing.

other precautions Avoid breathing and use only adequate ventilation. Wash thoroughly after handling. No food or beverage should be consumed in work area.

ADDITIONAL INFORMATION

This Material Safety Data Sheet should be made available by the buyer to each of buyer's plant workers.

The buyer assumes all risk in connection with the use and handling of the material. The seller assumes no responsibility or liability in connection with the information supplied in this sheet or for any damage or injury caused by the material; reasonable safety procedures should be followed. The seller assumes no responsibility for injury or damage caused by use of the material even if reasonable safety procedures are followed. The information contained in this sheet is developed from what is believed to be accurate and reliable sources but the seller makes no warranties, either expressed or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein.

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address	250 E. 2nd Street, P.O. Box 76, East Liverpool, Ohio 43920				
date this form prepared	DEC - 1990	responsible for preparation	Ronald K. Mason	chemical family	inorganic pigment
trade name & synonyms	Flesh 6098 (K-3788)	CAS number	68187-12-2 *	68186-93-6 *	10101-52-7 *
chemical name & synonyms	Cr Sn V Coral	basic chemical formula	CaO.SnO.SiO ₂ : Cr ₂ O ₃ + (Sn,V)O ₂		

ADDITIONAL INFORMATION:

According to OSHA CFR Part 1910-1200 (Hazard Communications) Chromium and Chromium Compounds are deemed to be a possible cancer hazard. This is based on assessment by the NTP (National Toxicology Program) that they reasonably be anticipated to be a carcinogen and an assessment of IARC (International Agency of Research on Cancer) which concluded that the evidence of carcinogenicity to human was sufficient. However, there have been no studies demonstrating any excess cancer risks in workers exposed to chromium oxide in their use.

Long term exposure to silica dust can cause silicosis which is characterized by shortness of breath.

This product contains the "ZINC COMPOUNDS" toxic chemical subject to the reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

MATERIAL OR COMPONENT

This product is a mixture of various metal oxides, salts and some compounds, considered to be a nuisance dust, are interfused to form the final product which does not represent individual components.

* Contains modifier (s).