SECTION I - IDENTIFICATION OF PRODUCT

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

date this form prepared	April 1991	Responsible for preparation	Ronald K. Mason	Chemcial Family	Inorganic Pigment
Trade Name & Synonyms	Royal Blue 6339 (39)	CAS Number	68187-40-6*		
Chemical Name & Synonyms	Cobalt Silicate Blue - Olivine	Basic Chemical Formula	$Co_2Si\ O_4$		

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	% Wt.	ACGIH-TWA	OSHA-PEL
ALUMINA OXIDE CAS # 1344-28-1	55%-60%	10 mg/m^3 as Al	15 mg/m^3 as Al
ZINC OXIDE CAS # 1314-13-2	20%-25%	10 mg/m^3 as dust 5 mg/m^3 as fumes	10 mg/m^3 as dust 5 mg/m^3 as fumes
COBALT OXIDE CAS # 1308-06-1	20%-25%	0.05 mg/m^3	0.05 mg/m^3

* Contains modifiers

SECTION III - SYMPTOMS OF OVEREXPOSURE

Cobalt Oxide - Prolonged inhalation of cobalt dust or metal dust, fumes or mist containing cobalt may cause serious respiratory illness. Inhalation may cause an irritation of respiratory organs of sensitive persons resulting in obstruction of airways with shortness of breath. May cause serious eye irritation. Prolonged exposure to skin may produce irritation. Chronic pulmonary disease has been reported in workers in the cemented carbide industry where cobalt is used. This effect has not been reported in workers using cobalt oxide.

Alumina - Acute inhalation overexposure may cause coughing and shortness of breath. Chronic inhalation overexposure may adversely effect breathing capacity. Direct eye contact may cause eye irritation. Skin contact may cause abrasions.

Zinc - Inhalation of high levels of zinc oxide may result in tightness of chest, metallic taste, cough, dizziness, fever, chills, headache, nausea and dry throat.

SECTION IV - HEALTH HAZARD DATA

occupational exposure limits

See Section II

effect of overexposure

EYE - May cause irritation.

SKIN - Skin contact may cause allergic dermatitis.

INHALATION- Inhalation of concentration above the Occupational Exposure Limit may cause irritation of respiratory passages.

INGESTION - Toxicity by this route is low.

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 V - SPECIAL PROTECTION INFORMATION

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

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

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

SECTION VI - SPECIAL PRECAUTIONS

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

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

SECTION VII - PHYSICAL DATA

boiling point (F°)	appearance & odor	specific gravity (water=1)	% volatile by volume
N/A	Blue powder - odorless	N/A	None

solubility in water	vapor pressure (mm Hg)	vapor density (air=1)	evaporation rate
Trace	N/A	N/A	None

SECTION VIII - REACTIVITY DATA

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

incompatibility (materials to avoid)

N/A

hazard decomposition products

N/A

SECTION IX - FIRE AND EXPLOSIVE DATA

flash point (method used)	flammable limits	LEL	UEL
Non-Flammable		N/A	

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 X - 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.

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.

This product contains the compounds Alumina, Cobalt and Zinc. These toxic chemicals are 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.

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.