

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  
May 1991

Responsible for preparation  
Ronald K. Mason

Trade Name & Synonyms  
Sage Grey 6500 (7)

Chemical Name & Synonyms  
Cobalt Nickel Grey - Periclase

CAS Number  
68186-89-0\*

Chemical Family  
Inorganic Pigment

Basic Chemical Formula  
(Co,Ni) O

R. J. RUTH

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	% Wt.	ACGIH-TWA	OSHA-PEL
CHROME OXIDE CAS # 1308-38-9	less than 5%	0.5 mg/m <sup>3</sup> as Cr	0.5 mg/m <sup>3</sup> as Cr
COBALT OXIDE CAS # 1308-06-1	5%-10%	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>
NICKEL OXIDE CAS # 1313-99-1	5%-10%	0.1 mg/m <sup>3</sup> as Ni Solu. comp. 1.0 mg/m <sup>3</sup> as Ni Insol. comp.	same as ACGIH-TWA
SILICA, CRYSTALLINE (QUARTZ) CAS # 14808-60-7	60%-65%	0.1 mg/m <sup>3</sup> as dust	0.1 mg/m <sup>3</sup> as dust
CALCIUM OXIDE CAS # 1305-78-8	less than 5%	2 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>

\* Contains modifiers

### SECTION III - SYMPTOMS OF OVEREXPOSURE

alcium - No acute effects. Long term overexposure to high concentrations of this dust without the use of a dust mask may produce X-ray evidence of dust in lungs. If continued, may affect respiratory functions in some individuals.

cobalt - 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 in 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.

silica - Undue breathlessness, wheezing, cough, and sputum production. Long term exposure to silica dust can cause silicosis which is characterized by shortness of breath. Crystalline silica is listed by the International Agency for Research on Cancer (IARC) as 2A: Sufficient evidence in laboratory animals and limited evidence of carcinogenicity in humans. Conclusions are based on long-term exposure to crystalline silica in the stone cutting industry. Studies are in progress to evaluate low-level and sporadic exposure to crystalline silica.

chromium - Repeated prolonged exposure to trivalent compounds may cause delayed effects involving the respiratory system. Causes skin and eye irritation.

Nickel Oxide - Primary entries through skin and inhalation of dust. May irritate skin, eyes and mucous membranes. Can cause "nickel itch" in sensitive persons.

According to OSHA CFR Part 1910-1200 (Hazard Communications) Chromium, Nickel and their certain 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 Research on Cancer) which concluded that the carcinogenicity evidence to humans for chromium, nickel and their compounds was sufficient. However, there have been no studies demonstrating any excess cancer risks in workers exposed to oxides of chrome and nickel in their use.

SECTION IX - FIRE AND EXPLOSIVE DATA

0300

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.		
Usual 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 nuisance dust, are interfused to form the final product which does not represent individual components.

This product contains the compounds Chrome, Cobalt, Nickel and Silica. 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 on 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.

SECTION IV - HEALTH HAZARD DATA

Occupational exposure limits

See Section II

Level of overexposure

- EYE - May cause irritation.
- SKIN - Skin contact may cause irritation, allergic dermatitis.
- INHALATION- Inhalation causes irritation of the respiratory tract and may cause disabling, progressive pulmonary fibrosis due to the free quartz silica.
- 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 V - 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 & 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	Gray 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	unstable	conditions to avoid	hazardous polymerization	may occur	conditions to avoid
	X			will not occur	
		N/A		X	N/A

Incompatibility (materials to avoid)

N/A

hazard decomposition products

N/A