

WELCH, HOLME & CLARK CO., INC.
OILS - FATS - FATTY ACIDS - CHEMICALS

MAIN OFFICE
1000 South Fourth Street
Harrison, N. J. 07029

PLAINTIFF'S EXHIBIT

Q-980

April 25, 1972

Quigley Company, Inc.
235 42nd Street
New York, New York 10017

Att: J. J. Marino, Chief Engineer

Gentlemen:

As per your request, enclosed you will find the Occupational Safety and Health Act Data Sheets which pertain to the two items you are currently purchasing from us.

Should there be further information required, please do not hesitate to contact us.

Very truly yours,

WELCH, HOLME & CLARK CO., INC.

Frank H. Driscoll

Frank H. Driscoll
Vice President,
QUIGLEY CO., INC.
RECEIVED

APR 23 1972
J. J. MARINO

FILE	
COPY TO:	

MATERIAL SAFETY DATA SHEET

(Approved by U.S. Department of Labor "Essentially Similar" to Form LSH-00S-4)

NPVLA 6-70

Section I

MANUFACTURER'S NAME

Philadelphia Quartz Company

STREET ADDRESS

Public Ledger Building - Independence Square

CITY, STATE, AND ZIP CODE

Philadelphia, Pa. 19106

EMERGENCY TELEPHONE NO.

215 - MA 7-7200

CHEMICAL NAME AND SYNONYMS

Sodium Silicate

TRADE NAME

"GD"

CHEMICAL FAMILY

Alkali Silicate

FORMULA

$\text{Na}_2\text{O} \cdot 2.0 \text{SiO}_2$

Section II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS

PIGMENTS	%	TLV (Units)	SOLVENTS	%	TLV (Units)
CATALYST			ADDITIVES		
ADJUVANT			OTHERS		
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Contains 27.0% Na_2O , 54.0% SiO_2 , balance water.					

Section III - PHYSICAL DATA

BOILING POINT (°F.)	212°F	SPECIFIC GRAVITY ($\text{H}_2\text{O}=1$)	61 lbs/cu.ft.
VAPOR PRESSURE (mm Hg)	N.A.	PERCENT VOLATILE BY VOLUME (%)	N.A.
VAPOR DENSITY (AIR=1)	N.A.	EVAPORATION RATE (Water = 1)	N.A.
SOLUBILITY IN WATER	Soluble in all proportions		
APPEARANCE AND ODOR	Colorless and odorless		

Section IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED)	None	FLAMMABLE LIMITS	
EXTINGUISHING MEDIA	None Required		
SPECIAL FIRE FIGHTING PROCEDURES			

UNUSUAL FIRE AND EXPLOSION HAZARDS

Material is inorganic and non-explosive and non-

Section V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE Not Applicable
EFFECTS OF OVEREXPOSURE May irritate skin and eyes.

EMERGENCY AND FIRST AID PROCEDURES Flush skin and eyes immediately for fifteen minutes with plenty of water; for eyes, call a physician.

Section VI REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID Not Applicable
	STABLE	X	

INCOMPATIBILITY (Materials to avoid) Not Applicable
HAZARDOUS DECOMPOSITION PRODUCTS None

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

Section VII SPILL OR LEAK PROCEDURES

TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Flush to sewer with large volume of water.

WASTE DISPOSAL METHOD See above.

Section VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

VENTILATION	LOCAL EXHAUST	None Required	SPECIAL
	MECHANICAL (General)		OTHER

PROTECTIVE GLOVES EYE PROTECTION Safety Glasses
OTHER PROTECTIVE EQUIPMENT

Section IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE Prevent from freezing.

OTHER PRECAUTIONS Do not store in high heat or humidity which promotes caking.

MATERIAL SAFETY DATA SHEET

(Approved by U.S. Department of Labor "Essentially Similar" to Form LSH-00S-4)

NPVLA 6-7C

Section I

FACTURER'S NAME Philadelphia Quartz Company	
STREET ADDRESS Public Ledger Building - Independence Square	
CITY, STATE, AND ZIP CODE Philadelphia, Pennsylvania 19106	
EMERGENCY TELEPHONE NO. 215 - MA 7-7200	
CHEMICAL NAME AND SYNONYMS Sodium Silicate	TRADE NAME "RU"
CHEMICAL FAMILY Alkali Silicate	FORMULA Na₂O'2.40 SiO₂

Section II HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS

PIGMENTS	%	TLV (Units)	SOLVENTS	%	TLV (Units)
CATALYST			ADDITIVES		
			OTHERS		
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Contains 13.85% Na ₂ O, 33.24% SiO ₂ , balance water.					

Section III PHYSICAL DATA

BOILING POINT (°F.)	212°F	SPECIFIC GRAVITY (H ₂ O=1)	1.559
VAPOR PRESSURE (mm Hg.)	N. A.	PERCENT VOLATILE BY VOLUME (%)	N. A.
VAPOR DENSITY (AIR=1)	N. A.	EVAPORATION RATE (AIR=1)	N. A.
SOLUBILITY IN WATER	Soluble in all proportions		
APPEARANCE AND ODOR	Odorless and colorless		

Section IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED)	None	FLAMMABLE LIMITS	
EXTINGUISHING MEDIA	None Required		
SPECIAL FIRE FIGHTING PROCEDURES			

UNUSUAL FIRE AND EXPLOSION HAZARDS **Material is inorganic and non-explosive and non-flammable.**

Section V - HEALTH HAZARD DATA			
THRESHOLD LIMIT VALUE	Not Applicable.		
LEVELS OF OVEREXPOSURE	May irritate skin and eyes.		
EMERGENCY AND FIRST AID PROCEDURES			
Flush skin and eyes immediately for fifteen minutes with plenty of water; for eyes, call a physician.			
Section VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID Not Applicable.
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)		Not Applicable.	
HAZARDOUS DECOMPOSITION PRODUCTS		None	
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	
Section VII - SPILL OR LEAK PROCEDURES			
TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Flush to sewer with large volume of water.			
WASTE DISPOSAL METHOD			
See above.			
Section VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type)			
VENTILATION	LOCAL EXHAUST	None Required	SPECIAL
	MECHANICAL (General)		OTHER
PROTECTIVE GLOVES		EYE PROTECTION	Safety Glasses.
OTHER PROTECTIVE EQUIPMENT			
Section IX - SPECIAL PRECAUTIONS			
CAUTIONS TO BE TAKEN IN HANDLING AND STORING			
Prevent from freezing			
OTHER PRECAUTIONS			

PRODUCT: Q- PANELCHROME

Formula No.: 105

Constituents:

1/8" Chrome Agg.
200 m "

#1 Blue ~~NEWMARK~~ Clay
Atlas White Cement

SUPPLIERS (Name and address)

Chrome Agg.	#1 Blue NEWMARK Clay	White Cement
C.E. Minerals 443 S. Gulph Rd King of Prussia Pa.	Such Clay Co. P.O. Box 488 Southport, N.C. Carolina	✓ Universal Atlas Cement 71 Broadway New York, N.Y.

MATERIAL SAFETY DATA SHEET

SECTION I	
MANUFACTURER'S NAME Universal Atlas Cement Div. of U. S. Steel Corporation	EMERGENCY TELEPHONE NO. Area Code: 412-433-7421
ADDRESS (Number, Street, City, State, and ZIP Code) 600 Grant Street Pittsburgh, Pennsylvania 15230	
CHEMICAL NAME AND SYNONYMS Masonry Cement	TRADE NAME AND SYNONYMS Atlas White Masonry Cement
CHEMICAL FAMILY Calcium Silicates, Calcium Carbonates, Aluminates, Ferrites	FORMULA $(3CaO \cdot SiO_2)$ $(2CaO \cdot SiO_2)$ $(3CaO \cdot Al_2O_3)$ $(4CaO \cdot Al_2O_3 \cdot Fe_2O_3)$ $(CaCO_3)$

PAINTS, PRESERVATIVES, & SOLVENTS		%	TLV (Units)	ALLOYS AND METALLIC COATINGS		%	TLV (Units)
PIGMENTS	NA			BASE METAL	NA		
CATALYST	NA			ALLOYS	NA		
VEHICLE	NA			METALLIC COATINGS	NA		
SOLVENTS	NA			FILLER METAL PLUS COATING OR CORE FLUX	NA		
ADDITIVES	NA			OTHERS	NA		
OTHERS	NA						
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES						%	TLV (Units)
NA							

BOILING POINT (°F)	NA	SPECIFIC GRAVITY (H ₂ O=1)	2.85-2.95
VAPOR PRESSURE (mm Hg.)	NA	PERCENT VOLATILE BY VOLUME (%)	NA
VAPOR DENSITY (AIR=1)	NA	EVAPORATION RATE (H ₂ O=1)	NA
SOLUBILITY IN WATER	Not Soluble		
APPEARANCE AND ODOR			
White Powder - No Odor			

FLASH POINT (NECOTED USED)	NA	FLAMMABLE LIMITS	NA	Lel	Uel
EXTINGUISHING MEDIA	NA				
SPECIAL FIRE FIGHTING PROCEDURES	NA				
UNUSUAL FIRE AND EXPLOSION HAZARDS					
NA					

THRESHOLD LIMIT VALUE	50 mppcf
EFFECTS OF OVEREXPOSURE	May cause eye and skin irritation to those with sensitive skin.
EMERGENCY AND FIRST AID PROCEDURES	Wash or flush with clean water

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	Yes	
INCOMPATIBILITY (Materials to avoid)		NA	
HAZARDOUS DECOMPOSITION PRODUCTS		None	
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	Normal clean-up
WASTE DISPOSAL METHOD	Normal disposal

RESPIRATORY PROTECTION (Specify type)				
U. S. Bureau of Mines Approved Dust Respirator in Dusty Environments				
VENTILATION	LOCAL EXHAUST	NA	SPECIAL	NA
	MECHANICAL (General)	NA	OTHER	NA
PROTECTIVE GLOVES		NA	EYE PROTECTION	
			Yes	
OTHER PROTECTIVE EQUIPMENT		NA		

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	NA
OTHER PRECAUTIONS	

PRODUCT: SNORKEL MIX

Formula No.: 115

Constituents:

5 M Flint Clay — 50.5
 Bauxite — 46.0
 # 6 Silicate — 2.8
 Amm. Penta Borate — 0.7
 Anhy. Borax

SUPPLIERS (Name and address)

Flint Clay	Bauxite	Silicate	Amm. Penta Borate	Anhy. Borax
✓ Alleghany Sand 10th Floor Benedum-Trees Bldg. Pittsburgh, Pa.	C.E. Minerals 443 S. Gulph Rd King of Prussia Pa.	E.I. Du Pont 350 Fifth Ave. Room 1101 New York, N.Y.	✓ U.S. Borax 1290 Ave. of Amm New York, N.Y.	✓ U.S. Borax 1290 Ave. of Amm New York, N.Y.
			✓ Sargent Chem. Co. 120 Lister Ave. Newark, N.J.	✓ Sargent Chem. Co. 120 Lister Ave. Newark, N.J.
			Kramer Chem. Co. 935 Allwood Rd. Clifton, N.J.	Kramer Chem. Co. 935 Allwood Rd. Clifton, N.J.