

MATERIAL SAFETY DATA SHEET

Meets OSHA 29CFR1910.1200 Standards

TRANSPORTATION INFORMATION	HMIS HAZARD RATINGS			
Not available	HEALTH	1	0 = INSIGNIFICANT	3 = HIGH
	FLAMMABILITY	3	1 = SLIGHT	4 = EXTREME
	REACTIVITY	3	2 = MODERATE	

SECTION 1 - PRODUCT / COMPANY INFORMATION		Page 1 of 2
IDENTITY (AS USED ON LABEL AND LIST) QUICK STRIPE - ARCTIC WHITE QSW1 & QSW12		
SUPPLIER'S NAME: Pioneer Manufacturing Co.	EMERGENCY TELEPHONE NO.: (800) 535-5053	
ADDRESS: 4529 Industrial Parkway Cleveland, OH 44135	DATE PREPARED: June 27, 1999	
TELEPHONE NO.: (216) 671-5500	SUPERCEDES: April 20, 1999	
	PREPARED BY: Robert Martin	

SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION						
HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY: COMMON NAMES)	CAS #	% (Optional)	ACGIH TLV		OSHA PEL	CARCINOGEN: IARC, NTP or OSHA
			TWA (PPM)	STEL (PPM)	TWA (PPM)	
Titanium Dioxide	13463-67-7	9.2	5 mg/m ³	NE	5 mg/m ³	Not Classifiable
Propane	00074-98-6	12.6	1000	NE	1000	NO
Hexane	00110-54-3	9.1	50	NE	500	NO
Xylene	01330-20-7	8.4	100	150	100	Not Classifiable
n-Butane	00106-97-8	7.4	800	NE	NE	NO
Aliphatic petroleum distillates: VM&P	64742-89-8	6.1	300	400 *	300	Not Classifiable
Naphtha 66						
Ethyl Benzene	00100-41-4	2.1	100	125	100	NO
Aromatic hydrocarbons: SC-100 Solvent	64742-95-6	1.1	50	NE	50	NO

* - Ceiling value

SECTION 3 - HAZARDS IDENTIFICATION
*** EMERGENCY OVERVIEW***: May cause flash fire or explosion
PRIMARY ROUTE(S) OF ENTRY: Skin absorption, inhalation, ingestion, eye contact, skin contact
EFFECTS OF OVEREXPOSURE - EYE CONTACT: Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.
EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Causes skin irritation. Allergic reactions are possible. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).
EFFECTS OF OVEREXPOSURE - INHALATION: Headaches, dizziness, nausea, decreased blood pressure, changes in heart rate and cyanosis may result from over exposure to vapor or skin exposure. Prolonged inhalation may be harmful.
EFFECTS OF OVEREXPOSURE - INGESTION: This material may be harmful or fatal if swallowed. Irritating to mouth, throat, and stomach.
EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Possible reproductive hazard
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing diseases involving the central nervous system, eyes, skin, blood, liver, kidneys, respiratory or gastrointestinal system. Alcoholic beverage consumption can enhance the toxic effects of this substance.

SECTION 4 - EMERGENCY AND FIRST AID PROCEDURES:
FIRST AID - EYE CONTACT: Immediately flush with plenty of water. If irritation persists, get medical attention.
FIRST AID - SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists. Remove contaminated clothing..
FIRST AID - INHALATION: Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Rescuers should put on appropriate protective gear. Remove from area of exposure. Keep victim warm.
FIRST AID - INGESTION: If swallowed do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person..
SECTION 5 - FIRE AND EXPLOSION HAZARD DATA
FLASH POINT: -9° F (Tagliabue Closed Cup) FLAMMABLE LIMITS: LEL 0.9% UEL 7.5%
EXTINGUISHING MEDIA: Water, Fog, Dry Chemical, Carbon Dioxide, Alcohol Foam, Foam
SPECIAL FIRE FIGHTING PROCEDURES: Containers can build up pressure if exposed to heat (fire). As in any fire, wear full protective equipment including NIOSH-approved Self-Contained Breathing Apparatus (SCBA), pressure-demand.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors may form explosive mixture with air.

FOR CHEMICAL EMERGENCY
 Call INFOTRAC
1-800-535-5053
 24 Hrs. per day, 7 days per week

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SECTION 6 - PHYSICAL AND CHEMICAL CHARACTERISTICS		
BOILING POINT: Range -44 - 344°F	SPECIFIC GRAVITY: 0.9142	
VAPOR PRESSURE: 40 psi	FREEZE POINT: ND	
VAPOR DENSITY (Air=1): Heavier than air	EVAPORATION RATE: Faster than ether	
SOLUBILITY IN WATER: Slight	APPEARANCE AND ODOR: Aromatic liquid	
SECTION 7 - STABILITY AND REACTIVITY		
STABILITY: This product is stable under normal storage conditions		
CONDITIONS TO AVOID: Do not store above 120°F. Keep away from sparks, pilot lights, and/or open flames		
INCOMPATIBILITY (MATERIALS TO AVOID): No Information		
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: May produce hazardous fumes when heated to decomposition. Fumes may contain carbon dioxide and/or carbon monoxide.		
HAZARDOUS POLYMERIZATION: Will Not Occur under normal storage conditions		
SECTION 8 - SPILL OR LEAK PROCEDURES AND STORAGE		
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.		
WASTE DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations. Do not puncture, incinerate, or compact.		
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep material away from heat, sparks, and flame. Wash thoroughly after handling.		
SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION		
RESPIRATORY PROTECTION: A NIOSH-approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.		
VENTILATION: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.		
EYE PROTECTION: Wear safety glasses with side shields (or goggles) and a face shield if eye contact is likely.		
SKIN PROTECTION: Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield.		
OTHER PROTECTIVE EQUIPMENT: Where splashing is possible, full chemically resistant protective clothing (e.g. acid suit) and boots are required).		
HYGIENIC PRACTICES: No information		
SECTION 10 - REGULATORY INFORMATION		
U.S. FEDERAL REGULATIONS: AS FOLLOWS:		
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)		
CERCLA - SARA HAZARD CATEGORY: This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:		
IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD, PRESSURIZED GAS HAZARD		
SARA SECTION 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:		
CHEMICAL NAME	CAS NUMBER	WT/WT %
Xylene	01330-20-7	8.40 %
Ethyl Benzene	00100-41-4	2.10 %
Methanol	00067-56-1	0.10 %
Trimethylbenzene	25551-13-7	0.00 %
INTERNATIONAL REGULATIONS: AS FOLLOWS -		
CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 11 headings.		
CANADIAN WHMIS CLASS: No information available		
SECTION 11 - OTHER INFORMATION		
ECOLOGICAL INFORMATION: This product does not contain chlorinated solvents or lead.		
VOLATILE ORGANIC COMPOUNDS (VOCs): 4.48 lbs/gal, 537 grams/liter, 47% by weight		
LEGEND: NA - Not Applicable, NE - Not Established, ND - Not Determined		

The information contained herein is based on the data available to us and is believed to be correct. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.



#61B

MATERIAL SAFETY DATA SHEET
FOR COATINGS, RESINS AND RELATED MATERIALS

DATE OF PREP. 6/01/94 PAGE 1

SECTION 1
MANUFACTURED FOR: PIONEER/RANDUSTRIAL 4529 INDUSTRIAL PARKWAY
EMERGENCY TELEPHONE: 800-535-5053 CLEVELAND, OH 44135
INFORMATION PHONE: 216-671-5500

TRADE NAME: QUIK STRIPE ARCTIC WHITE
PRODUCT CLASS: AEROSOL -
MANUFACTURERS CODE IDENTIFICATION: PP-0012-0000

SECTION 2 - HAZARDOUS INGREDIENTS

INGREDIENT - (CAS#)	PERCENT	ACGIH TLV(TWA)/OSHA PEL PPH	MG/R3	LEL	VAPOR PRESSURE AEROSOL CANS 40 P.S.I.A. @ 70 DEG. F
TITANIUM DIOXIDE (13463-67-7) (AS DUST)	9.11	ND	10.00	ND	
XYLENE (1330-20-7)	(1) 7.36	100.00	434.00	1.00	
ETHYL BENZENE (100-41-4)	(1) 1.84	100.00	434.00	1.20	
TOLUENE (108-88-3)	(1) 15.66	100.00	377.00	1.27	
ACETONE (67-64-1)	(1) 1.05	750.00	1,780.00	2.60	
METHYL ALCOHOL (SKIN) (67-56-1)	(1) 2.42	200.00	262.00	6.00	
VARNISH MAKERS & PAINTER NAPHTHA (8032-32-4)	3.89	300.00	1,370.00	1.10	
PROPANE - (74-98-6)	12.0	ND	ND	2.30	
ISOBUTANE - (75-28-5)	8.0	ND	1900.0	1.90	

8-HOUR TIME WEIGHTED AVERAGE CONCENTRATION 200 PPH
ACCEPTABLE CEILING CONCENTRATION 300 PPH
ACCEPTABLE MAXIMUM PEAK ABOVE THE CEILING CONCENTRATION FOR AN 8-HOUR SHIFT 500 PPH
MAXIMUM DURATION 10 MINUTES.

(1) THIS CHEMICAL IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III
(2) THIS CHEMICAL IS ON THE LIST OF "CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR REPRODUCTIVE TOXICITY" (PROPOSITION 65)

SECTION 3 - PHYSICAL DATA

BOILING POINT: N/A VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: FASTER THAN ETHER. PERCENT VOLATILE ORGANIC BY WEIGHT: 51.62 WEIGHT PER GALLON: 7.978

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: AEROSOL-10 DEG. F (T.O.C.) LEL: SEE SECTION 2
FLAMMABILITY CLASSIFICATION: 1A
OSHA: CLASS 1A FLASH POINT BELOW 73 F. AND A BOILING POINT BELOW 100 F.
DOT: CONSUMER COMBUSTIBILITY ORDN

EXTINGUISHING MEDIA: USE CARBON DIOXIDE, DRY CHEMICAL OR FOAM.
UNUSUAL FIRE AND EXPLOSION HAZARDS: EXPOSURE TO HEAT MAY CAUSE BURSTING OF AEROSOL CAN.

SPECIAL FIRE FIGHTING PROCEDURES: WATER SPRAY MAY BE INEFFECTIVE. WATER MAY BE USED TO COOL CONTAINERS TO PREVENT BURSTING. IF WATER IS USED, FOG NOZZLES ARE PREFERABLE. WEAR GOGGLES AND SELF CONTAINED BREATHING APPARATUS.

SECTION 5 - HEALTH HAZARD

THRESHOLD LIMIT VALUE: SEE SECTION 2

ACUTE OVEREXPOSURE/FIRST AID:

INHALATION: EXPOSURE TO SOLVENT VAPORS CONCENTRATION EXCEEDING THE ESTABLISHED THRESHOLD LIMIT VALUES CAN CAUSE RESPIRATORY SYSTEM IRRITATION, STYPTONS OF OVEREXPOSURE ARE IRRITATION, HEADACHE, DIZZINESS, NAUSEA, POSSIBLE UNCONSCIOUSNESS AND ASPHYXIATION.

FIRST AID: REMOVE PATIENT TO FRESH AIR. IF BREATHING STOPS, BEGIN ARTIFICIAL RESPIRATION. SEEK IMMEDIATE MEDICAL ATTENTION.

EYE CONTACT: MAY CAUSE EYE IRRITATION ESPECIALLY UPON DIRECT CONTACT WITH THE SPRAY.

FIRST AID: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

SKIN CONTACT: PROLONGED OR REPEATED LIQUID CONTACT MAY CAUSE DEFATTING OF THE SKIN, LEADING TO IRRITATION AND DERMATITIS.
FIRST AID: WASH WITH SOAP AND WATER.

INGESTION: ACCIDENTAL INGESTION IS UNLIKELY FROM AN AEROSOL CAN. IF INGESTED, CALL A PHYSICIAN IMMEDIATELY.
FIRST AID: CALL A PHYSICIAN IMMEDIATELY.

CHRONIC OVEREXPOSURE:

TITANIUM DIOXIDE
(13463-67-7) (AS DUST)
OVEREXPOSURE - NONE KNOWN

NOTE: INHALATION TESTS IN RATS: MIST FROM DRIED PRODUCTS PRODUCED AN INERT OR NUISANCE DUST RESPONSE IN THE LUNGS.

XYLENE (1330-20-7) (1)

OVEREXPOSURE - HEALTH STUDIES HAVE SHOWN THAT MANY PETROLEUM HYDROCARBONS POSE POTENTIAL HUMAN HEALTH RISK WHICH MAY VARY FROM PERSON TO PERSON. AS A PRECAUTION, EXPOSURE TO LIQUIDS, VAPORS, MISTS, OR FUMES SHOULD BE MINIMIZED. REPORTS OF ANIMAL TEST STUDIES HAVE SHOWN POSSIBLE EFFECTS TO: THE LIVER, KIDNEYS, AND THE LUNGS. REPORTS OF ANIMAL TEST STUDIES HAVE SHOWN EMBRYO/FETOXIC EFFECTS. THE REVELANCE OF THESE EFFECTS TO MAN IS UNKNOWN.

HIGH VAPOR CONCENTRATIONS (GREATER THAN APPROXIMATELY 1000 PPM) IRRITATING TO THE EYES AND THE RESPIRATORY TRACT, MAY CAUSE HEADACHES AND DIZZINESS, ARE ANESTHETIC, AND MAY HAVE OTHER NERVOUS SYSTEM EFFECTS INCLUDING DEATH.

ETHYL BENZENE (11)
(100-41-4)

OVEREXPOSURE - MAY CAUSE SEVERE EYE IRRITATION, REDNESS, TEARING, AND BLURRY VISION. PROLONGED OR REPEATED EXPOSURE CAN CAUSE IRRITATION, DEFLATTING AND DEMITTITS, EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION, CENTRAL NERVOUS SYSTEM EFFECTS INCLUDE DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, POSSIBLE UNCONSCIOUSNESS, AND EVEN DEATH. CAN CAUSE GASTRO-INTESTINAL IRRITATION, VOMITING, AND DIARRHEA. ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

TOLUENE (1) (2)
(108-88-3)

OVEREXPOSURE - WHILE THERE IS NO EVIDENCE THAT INDUSTRIAL ACCEPTABLE LEVELS OF TOLUENE (E.G. THE TLV) HAVE PRODUCED CARCINOGENIC EFFECTS IN HUMANS, ANIMAL STUDIES HAVE SHOWN THAT INHALATION OF HIGH LEVELS OF TOLUENE PRODUCED CARCINOGENIC SENSITIZATION, SUCH SENSITIZATION MAY CAUSE FATAL CHANGES IN HEART RHYTHMS. THIS LATTER EFFECT WAS SHOWN TO BE ENHANCED BY HYDROXYLA OR THE INJECTION OF ARSENAL-IN-LINE AGENTS. RATS EXPOSED TO 1400 PPM OR 1200 PPM OF TOLUENE FOR 14H/DAY FOR 4 OR 5 YEARS (RESPECTIVELY) EXHIBITED HIGH FREQUENCY HEARING DEFICITS. THE SIGNIFICANCE OF THIS INFORMATION TO MAN IS UNKNOWN.

ACETONE (4)
(67-64-1)

OVEREXPOSURE - HIGH VAPOR CONCENTRATIONS MAY IRRITATE THE EYES AND MUCOUS MEMBRANES OF THE NOSE AND THROAT. SEVERE OVEREXPOSURE (I.E. > 12,000 PPM) CAN CAUSE CNS DEPRESSION INCLUDING NAUSEA, VOMITING, HEADACHES, INCOORDINATION AND DIZZINESS. REPEATED OR PROLONGED CONTACT OF THE LIQUID WITH THE SKIN CAN CAUSE REDNESS AND A DRY, SCALY AND FISSURED DERMATITIS. EYE CONTACT RESULTING FROM SPLASHES OR HIGH VAPOR CONCENTRATION EXPOSURE IS IRRITATING. WHEN ACETONE WAS ABSORBED SYSTEMICALLY, IT CAUSED CATARACTS IN LABORATORY ANIMALS. WHEN INGESTED THE EFFECTS ARE INTOXICATING, THESE ACUTE SYMPTOMS MIGHT INCLUDE EARLY EMOTIONAL INSTABILITY, IMPAIRED MOTOR COORDINATION, NAUSEA, VOMITING, IRREGULARITY, STUPOR AND FINALLY COMA. 10 TO 20 ML HAS BEEN TAKEN ORALLY WITHOUT ILL EFFECTS.

METHYL ALCOHOL (KIN) (1)
(67-56-1)

OVEREXPOSURE - TOXIC EFFECTS FROM REPEATED OVEREXPOSURE TO METHANOL ARE ACCUMULATIVE AND EFFECT THE CENTRAL NERVOUS SYSTEM, ESPECIALLY THE OPTIC NERVE. THESE SYMPTOMS MAY LINGER FOR SEVERAL DAYS AFTER EXPOSURES. MAY BE FATAL OR CAUSE BLINDNESS IF INGESTED. CANNOT BE MADE NON-POISONOUS. METHANOL IS A POISONOUS CHEMICAL THAT CAN AFFECT THE BODY BOTH ACUTELY AND CHRONICALLY THROUGH INHALATION, INGESTION, OR REPEATED OR PROLONGED SKIN ABSORPTION. LIVER DAMAGE HAS RESULTED FROM PROLONGED OR REPEATED INHALATION OF VAPORS. INHALATION OF HIGH CONCENTRATIONS FOR PROLONGED PERIODS HAS RESULTED IN DEATH.

VARNISH MAKERS & PRINTER
NAPHTHA (9032-3-4)

OVEREXPOSURE - MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. CENTRAL NERVOUS SYSTEM DEPRESSION IN HIGH CONCENTRATIONS.

SECTION 6 - REACTIVITY DATA

STABILITY: STABLE
CONDITIONS TO AVOID: DO NOT STORE ABOVE 120 DEG. F. KEEP FROM SPARKS, PILOT LIGHTS OR OPEN FLAME.

INCOMPATIBILITY: (MATERIALS TO AVOID) NONE KNOWN

HAZARDOUS DECOMPOSITION PRODUCTS: MAY PRODUCE HAZARDOUS FUMES WHEN HEATED TO DECOMPOSITION. FUMES MAY CONTAIN CARBON DIOXIDE AND/OR CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

CONDITIONS TO AVOID: NA

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION, AVOID BREATHING VAPORS, VENTILATE AREA, Wipe UP WITH INERT MATERIALS AND PLACE IN APPROPRIATE CONTAINER.

WASTE DISPOSAL METHODS: DO NOT INCINERATE AEROSOL, DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. DO NOT PLACE AEROSOL CANS IN HOME COMPACTOR, DO NOT PUNCTURE.

SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: AVOID CONTINUOUS BREATHING OF VAPORS AND SPRAY MIST. A SELF CONTAINED BREATHING APPARATUS REQUIRED FOR CONCENTRATIONS ABOVE TLV LIMITS.

VENTILATION: USE WITH ADEQUATE VENTILATION, SUFFICIENT TO PREVENT INHALATION OF SOLVENT VAPORS.

PROTECTIVE GLOVES: OPTIONAL

EYE PROTECTION: ONLY UNDER CONDITIONS WHERE SPRAY MIST MIGHT GET INTO EYES.

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: DO NOT STORE ABOVE 120 DEG. F. EXPOSURE TO HEAT OR PROLONG EXPOSURE TO SUN MAY CAUSE RUSTING.

OTHER PRECAUTIONS: USE ONLY AS DIRECTED. INTENTIONAL MISUSE BY DILIGENTLY CONCENTRATING VAPORS AND INHALING CONTENTS CAN BE HARMFUL OR FATAL.

PERIODICALLY USER SHOULD REQUEST NEW MSDS TO ASSURE IT MATCHES CURRENT FORMULATION. THIS MSDS IS BASED ON FORMULA#; PP-0412-0000

ASSOCIATIONS:

N/A NO DATA
N/D NOT APPLICABLE

ACGIH (TLV) AMERICAN CONFERENCE OF GOVERNMENT INDUSTRIAL HYGIENISTS (THRESHOLD LIMIT VALUE)

PEL PERMISSIBLE EXPOSURE LIMITS

PPM PARTS PER MILLION

MGMS MILLIGRAMS PER CUBIC METER

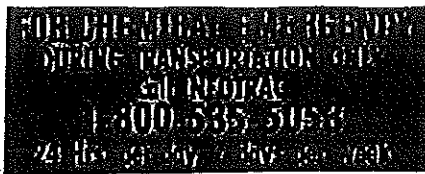
CAS # CHEMICAL ABSTRACT SERVICE NUMBER

PSIA POUNDS PER SQUARE INCH - ABSOLUTE

F. DEGREES FAHRENHEIT

TOC TAG OPEN CUP

(A-1) CONFIRMED HUMAN CARCINOGEN BY NTP, IARC, AND/OR OSHA
(A-2) SUSPECTED HUMAN CARCINOGEN BY NTP, IARC, AND/OR OSHA



MATERIAL SAFETY DATA SHEET

ABBREVIATIONS: NA = NOT APPLICABLE
ND = NOT DETERMINED
NE = NOT ESTABLISHED

HEALTH = 1
FLAMMABILITY = 0
REACTIVITY = 0
PERSONAL PROTECTION = B

SECTION 1

PRODUCT NAME: BRITE STRIPE ATHLETIC FIELD MARKING PAINT - WHITE
PIONEER MANUFACTURING COMPANY
4529 INDUSTRIAL PARKWAY
CLEVELAND, OHIO 44135
TELEPHONE: (216) 671-5500

PRODUCT TYPE: LATEX PAINT

EMERGENCY TELEPHONE (800) 535-5053
INFOTRAC

DATE PREPARED: 6/17/93
PREPARED BY: GSS
D.O.T. SHIPPING CLASS: NOT REGULATED

#1202

SECTION 2 - INGREDIENTS

CHEMICAL NAME	CAS NO.	OSHA PEL	ACGIH TLV	% WT
METHANOL AMINE	141-43-5	3 ppm	6 ppm	<0.5
ACRYLIC LATEX	N.A.	N.E.	N.E.	
WATER	7732-18-5	N.E.	N.E.	
CALCIUM CARBONATE	1317-65-3	5 mg/m ³	RESPIRABLE DUST	
TITANIUM DIOXIDE	13463-67-7	5 mg/m ³	RESPIRABLE DUST	

* SUBJECT TO REPORTING REQUIREMENTS OF SARA TITLE III SECTION 313, 40 CFR 372

SECTION 3 - PHYSICAL DATA

BOILING POINT (°F): 212
VAPOR PRESSURE: EQUAL TO WATER
VAPOR DENSITY: EQUAL TO WATER
SOLUBILITY IN WATER: SOLUBLE
APPEARANCE/ODOR: WHITE, VISCOUS LIQUID, MILD LATEX ODOR
SPECIFIC GRAVITY: 1.35
MELTING POINT: N.A.
EVAPORATION RATE (BUAC=1): EQUAL TO WATER
pH: 9-10

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): NONE, SETA
FLAMMABILITY LIMITS: LEL N.A. UEL N.A.
EXTINGUISHING MEDIA: WATER, FOAM, CARBON DIOXIDE, DRY CHEMICAL
SPECIAL FIRE FIGHTING PROCEDURES: NONE

UNUSUAL FIRE FIGHTING AND EXPLOSION HAZARDS: CLOSED CONTAINERS MAY EXPLODE DUE TO STEAM FORMATION FROM EXPOSURE TO HIGH HEAT. USE WATER SPRAY TO COOL.

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SECTION 5 - REACTIVITY DATA

STABILITY: STABLE CONDITIONS TO AVOID: NONE KNOWN
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
INCOMPATIBILITY: ACIDS COULD CAUSE COAGULATION
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: NONE KNOWN

SECTION 6 - HEALTH HAZARD DATA

ROUTES OF ENTRY INHALATION? NO SKIN? NO INGESTION? YES
HEALTH HAZARDS (ACUTE AND CHRONIC):
MAY BE IRRITATING TO EYES, SKIN, AND RESPIRATORY TRACT.

CARCINOGENITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

SIGNS AND SYMPTOMS OF EXPOSURE: REDNESS OR IRRITATION OF EYES AND SKIN.
IRRITATION OR NAUSEA FROM INHALATION OR INGESTION.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE KNOWN.

EMERGENCY AND FIRST AID PROCEDURES: IN EYES: FLUSH WITH WATER FOR AT LEAST 15
MINUTES. SEEK MEDICAL ATTENTION. ON SKIN: WASH WITH SOAP AND WATER. IF
INHALED: REMOVE PERSON TO FRESH AIR. IF INGESTED: GIVE TWO GLASSES OF MILK
OR WATER TO DILUTE. CALL A PHYSICIAN OR POISON CONTROL CENTER.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR LEAKED: ELIMINATE SOURCE OF
SPILL. CONTAIN SPILL. REMOVE FREE LIQUID TO A SECURE CONTAINER. USE
ABSORBANT TO CAPTURE RESIDUE. WASH AREA WITH SOAP AND WATER.

WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE
AND FEDERAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN STORAGE AND HANDLING: KEEP CONTAINERS CLOSED WHEN
NOT IN USE. KEEP FROM FREEZING. AVOID PROLONGED OR REPEATED CONTACT.
CLEAN EQUIPMENT AFTER USE.
OTHER PRECAUTIONS: NONE.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION: NOT NORMALLY REQUIRED. USE OUTDOORS ONLY.

VENTILATION: LOCAL EXHAUST MECHANICAL SPECIAL OTHER
PROTECTIVE GLOVES: IMPERVIOUS GLOVES EYE PROTECTION: CHEMICAL GOGGLES
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: AS REQUIRED TO PREVENT SKIN
CONTACT.
WORK/HYGIENIC PRACTICES: WASH WITH SOAP AND WATER AFTER USING PRODUCT.