

PRODUCT SPECIFICATIONS

SHEBOYGAN PAINT COMPANY
1439 NORTH 25th STREET
P.O. BOX 417
SHEBOYGAN, WI 53082-0417
TELEPHONE (920) 458-2157

DATE OF PREPARATION 04/23/14
PRINTED DATE 12/01/14
TRANSPORTATION EMERGENCY (800) 924-6804
CUSTOMER SERVICE custserv@shebpaint.com

TRADE NAME
DARK BLUE WR PROTECTIVE ENAMEL

MFG. PRODUCT NO.
73-4243C

CUSTOMER :
PART NUMBER :
WEIGHT PER GALLON :
(density)

8.76 POUNDS

BY WEIGHT BY VOLUME

PERCENT SOLIDS :

29.64 23.88

PERCENT WATER :

57.27 60.20

PERCENT SOLVENT :

12.73 15.50

% EXEMPT SOLVENT :

.36 .42

VOC (WITH WATER AND EXEMPT SOLV) :

1.11 LBS/GAL 133.02 GMS/LITER

VOC (LESS WATER AND EXEMPT SOLV) :

2.83 LBS/GAL 339.14 GMS/LITER

PERCENT HAPS BY WEIGHT :

VOC LBS PER GALLON SOLIDS :

4.65

VOC KILOGRMS PER KILOGRMS SOLIDS :

.43

VOC HAPS LBS PER GALLON SOLIDS :

VOC HAPS LBS PER LBS SOLIDS :

FLASHPOINT (FAHRENHEIT) :

N/A

APPLICATION :

SPRAY/ROLL/BRUSH

REDUCTION :

NONE-WATER IF NEEDED

CURE :

AIR DRY OR 8MIN@175F

SUBSTRATE :

COLD ROLLED STEEL

COVERAGE :

383.035 SQUARE FEET @ 1 MIL NO LOSS

VISC @ 80 F :

80-85 KU*

CRYPTOMETER :

1-10#7 WEDGE

GLOSS :

90-100@1 MIL, HIGH

pH :

8.5-9

COMMENTS

MATERIAL SAFETY DATA SHEET
FOR COATINGS, RESINS AND RELATED MATERIALS

HAZARD RATING 0 - MINIMAL 3 - SERIOUS
1 - SLIGHT 4 - SEVERE
2 - MODERATE * - CHRONIC

HMIS RATING HEALTH - * 2 FLAMMABILITY - 0 REACTIVITY - 0

SECTION I

SHEBOYGAN PAINT COMPANY DATE OF PREPARATION 04/23/14
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SHEBOYGAN, WI 53082-0417 EMAIL: custserv@shebpaint.com
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PRODUCT CLASS TRADE NAME MFG PRODUCT NO.
SURFACE COATING DARK BLUE WR PROTECTIVE ENAMEL 73-4243C

SECTION II - HAZARDOUS INGREDIENTS

NT INGREDIENT	CAS#	ACGIH TLV		ACGIH STEL		OSHA PEL		OSHA CEILING		LEL % VOLUM	VAPOR PRESS		% BY Wgt
		PPM	mg/m3	PPM	mg/m3	PPM	mg/m3	PPM	mg/m3		mm/Hg	DEG F	
C Glycol Ether Compd. (skin)	111-76-2	20.00	100.0	-----	-----	50.00	240.0	-----	-----	1.100	0.600 @	68.	7.07
A Secondary Butyl Alcohol	78-92-2	100.0	300.0	-----	-----	150.0	450.0	-----	-----	1.700	12.50 @	68.	4.81
NON-HAZARDOUS COMPONENT: Water	7732-18-5	-----	-----	-----	-----	-----	-----	-----	-----	-----	17.50 @	68.	57.2
C Ammonia	7664-41-7	25.00	17.00	35.00	24.00	50.00	35.00	-----	-----	16.00	6460. @	68.	0.36
Copper Compound	147-14-8	-----	-----	-----	-----	-----	-----	-----	-----	-----	----- @	---	---
Barium Sulfate (Barite)	13462-86-7	-----	-----	-----	-----	-----	-----	-----	-----	-----	----- @	---	3.29

C -This toxic chemical is subject to the reporting requirements of both Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372) and the Wisconsin Dept. of Natural Resources Administrative Code Chapter NR445.
VHAP = VOLATILE HAZARDOUS AIR POLLUTANT (VAPOR) HAP = HAZARDOUS AIR POLLUTANT (SOLID)
(skin) = OSHA Skin Absorption Hazard VOC content determined by EPA method 24.

A -This toxic chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372).
VHAP = VOLATILE HAZARDOUS AIR POLLUTANT (VAPOR) HAP = HAZARDOUS AIR POLLUTANT (SOLID)
VOC content determined by EPA method 24.

SECTION III - PHYSICAL DATA

BOILING RANGE 208-490 F VOC KG/KG SOLIDS=.43 VOC (WITH WATER AND EXEMPT SOLV) = 1.11 LBS/GAL 133 GMS/LITER
% HAPS BY WEIGHT= VOC (LESS WATER AND EXEMPT SOLV) = 2.83 LBS/GAL 339 GMS/LITER

VAPOR DENSITY EVAPORATION RATE %VOLATILE BY WEIGHT %VOLATILE BY VOLUME WEIGHT PER GALLON SPECIFIC GRAVITY AVG SOLV DENSITY
VAPOR DENSITY HEAVIER THAN AIR EVAPORATION RATE SLOWER THAN ETHER 70.36 76.12 8.757 1.051 8.09

SECTION IV - FIRE & EXPLOSION HAZARDS

PROPER SHIPPING NAME - WATER BASED PRODUCT, DOES NOT SUSTAIN COMBUSTION

NONCOMBUSTIBLE (ASTM D4206)

SHIPPING LABEL - KEEP FROM FREEZING LABEL

FLASHPOINT N/A

EXTINGUISHING MEDIA: Water based product. Flashpoint for this product is listed as N/A or Not Applicable due to the presence of water. If water has boiled off, this product may exhibit properties of a Class II, IIIA, or IIIB liquid. If needed, extinguishing agents for Class B fires may be used.

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UNUSUAL FIRE & EXPLOSION HAZARDS: Water based product. Sealed containers may explode if exposed to extreme heat. Frozen containers may expand and leak contents when thawed. Water soluble liquids are non-accumulators of static charge. Static protection precautions such as container bonding or grounding would not be necessary. Flash point listed as N/A or not applicable due to the presence of water.

SPECIAL FIRE FIGHTING PROCEDURES: Water may be used to cool closed containers to prevent pressure buildup. Keep people away from any fire fighting operations involving chemicals. Wear a self-contained positive pressure breathing apparatus in addition to full protective gear.

SECTION V - HEALTH HAZARD

EFFECTS OF OVEREXPOSURE: Irritation of the respiratory tract or acute nervous system depression characterized by headache, dizziness, staggered gait, confusion, unconsciousness, coma. There is no applicable information available regarding the carcinogen potential for this product as a whole, however any relevant information regarding any ingredient's status as a potential, suspect, or confirmed carcinogen is listed in SECTION V of the MSDS.

Chronic overexposure may cause blood disorders or damage to the blood-forming system.

Chronic overexposure may damage the liver and/or kidneys, blood cells, cause cardiac sensations, hearing effects, and/or cause birth or fertility defects in lab animals.

Repeated and prolonged exposure to some solvents has been associated with permanent brain and nervous system damage.

Intentional misuse by deliberately concentrating & inhaling vapors from this product may be harmful or fatal.

This product contains ethylene glycol monobutyl ether which is on the New Jersey and Pennsylvania Right-to-Know List.

CAS# 111-76-2

Chronic overexposure may cause damage to the liver, kidney, eyes, and/or respiratory system.

This product contains 2-butanol or secondary butyl alcohol which is on the Massachusetts, Pennsylvania and New Jersey Right-to-Know Lists: CAS# 78-92-2

Prolonged and continuous exposure to excessive concentration of dust of any kind without using a dust mask may have an adverse pulmonary effect on some people. This overexposure may result in coughing, sputum, and reduced lung capacity.

Pre-existing asthmatic conditions may worsen. Persons with lung diseases should not work in dusty areas unless a physician certifies their fitness to wear a respirator. (OSHA 1910.134). Liquid paint does not readily release dust.

This product contains a copper compound. Pigment Blue 15 CAS# 147-14-8; Pigment Green 7 CAS# 1328-53-6; and Pigment Green 36 CAS# 14302-13-7 ARE ALL EXEMPT FROM REPORTING REQUIREMENTS UNDER THE CATEGORY "COPPER COMPOUNDS" from the list of toxic chemicals under section 313, EPCRA. These pigments may contain up to 10% elemental copper by weight as CAS# 7440-50-8.

This product contains C.I. Pigment Blue #15 which is on the Pennsylvania, MASS & NJ Right-to-Know List. CHEMICAL

Name: Copper, [29]1,3[H-phthalocyaniato(2-)-N29,N30,N31,N32]- (SP-4-1)- CAS# 147-14-8

Exposure Limits For Inert and Nuisance Dust Particulates Not Otherwise Classified: OSHA (PEL): TWA =15 mg/m3 (total dust) 5 mg/m3 (respirable fraction). ACGIH(TLV): TWA = 10 mg/m3 (total dust).

Exposure Limits For Copper (dust & mist): (CAS# 7440-50-8) OSHA (PEL): TWA = 1 mg/m3. ACGIH (TLV): TWA = 1 mg/m3. OSHA (PEL): TWA=0.1 mg/m3 (fume).

This product contains Barium Sulfate which is listed by OSHA and ACGIH as a nuisance dust. Long term overexposure to barium sulfate dust may produce benign Pneumoconiosis termed "baritosis" and may reduce lung functions.

Exposure Limits For Barium Sulfate: (CAS# 7727-43-7) OSHA (PEL): TWA =10 mg/m3 (total dust), 5 mg/m3 (respirable) ACGIH(TLV): TWA =10 mg/m3 (total dust).

This product contains Crystalline Silica (Quartz). Prolonged overexposure to respirable silica dust may cause Silicosis, a non-cancerous lung disease. Crystalline silica is also considered a probable carcinogen by IARC and as a reasonable

anticipated human carcinogen by NTP. Silicosis is made worse by smoking.

Exposure Limits For Silica-Crystalline: (CAS# 14808-60-7) (Quartz) OSHA (PEL): TWA = 0.1 mg/m3 (as respirable dust)

ACGIH(TLV): TWA = 0.1 mg/m3 (as respirable fraction). * Crystalline silica is a potential chronic health hazard.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Preexisting eye, skin, central nervous system, digestive tract, and respiratory tract. May adversely affect persons with liver, kidney & blood forming organ disorders.

ROUTE(S) OF ENTRY: Inhalation, skin contact absorption, eye contact. Products that are free-flowing liquids or pastes are not expected to have routes of exposure for dust. Dried product residue may exhibit dust inhalation hazards.

INHALATION: May cause moderate irritation to the respiratory tract. Overexposure may have toxic and/or narcotic effects.

May cause congestion, headache, dizziness, weakness, nausea, and/or drowsiness. FIRST AID: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and get emergency medical assistance.

EYE CONTACT: Liquids or vapors may cause severe irritation and/or chemical burns to the eyes. Chronic overexposure may cause eye damage, conjunctiva or corneal injury. FIRST AID: Immediately flush eyes and eyelids with large

amounts of water for 15 min. Hold eyelids apart to ensure flushing of the entire area. Get prompt medical attention.

SKIN CONTACT: May cause moderate to severe skin irritation. May cause burning sensations, defatting and/or dermatitis.

Chronic overexposure may cause skin cracking and/or eczema. FIRST AID: Remove contaminated clothing and shoes. Wash area with soap and water. Get medical attention as needed.

SKIN ABSORPTION: May be absorbed through skin tissues. Chronic overexposure to the skin without using protective barriers (gloves, aprons, etc.) may cause toxic effects.

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INGESTION: Single dose oral toxicity is low. May cause irritation to the gastrointestinal tract. Ingestion may cause nausea, discomfort, diarrhea, dizziness and vomiting. FIRST AID: DO NOT INDUCE VOMITING! Contents of this product pose an inhalation hazard. If aspirated into the lungs, may cause chemical pneumonitis and/or pulmonary edema which can be fatal. Never leave individual unattended, keep head low to prevent aspiration. SEEK IMMEDIATE MEDICAL ATTENTION!

SECTION VI - REACTIVITY DATA

STABILITY: ____UNSTABLE __X__STABLE

INCOMPATABILITY (Materials to avoid): Keep away from all oxidizing materials, avoid strong acids & alkalis (caustics) and never distill solvents to dryness. Material can react violently under such conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, nitrogen and/or sulfur & other toxic gases and irritating vapors like aldehydes, amines, HCN, and incompletely burned hydrocarbons.

HAZARDOUS POLYMERIZATION: ____May Occur __X__Will Not Occur

CONDITIONS TO AVOID: Container is not a pressure vessel. Never use pressure to empty. Use safe warehousing and handling procedures for drums, pails, containers, etc. Do not stack 5 gallon pails more than 5 high.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Dike spilled area and collect with inert absorbent material.

If in a confined area, avoid breathing vapors and use a respiratory protection device (See Section VIII). Follow local, state and federal spill notification procedures.

WASTE DISPOSAL: Consult licensed waste handling and/or transportation facility. Follow local, state, provincial and federal waste regulations. Do not incorporate into municipal sewage treatment facilities. Empty containers retain product residue, follow label and MSDS warnings even after container is emptied.

SECTION VIII - SAFE HANDLING & USE INFO

RESPIRATORY PROTECTION: In outdoor or open areas with unrestricted ventilation, if needed, use NIOSH approved dust mask to protect from overspray airborne particulates. In restricted areas use NIOSH approved organic vapor respirator with dust particulate pre-filter. Supplied air systems or intrinsic safe PAPR systems with organic vapor protection may be used, consult OSHA respirator standard and check with a safety supplier for respirator system specifications.

VENTILATION: Provide sufficient ventilation to keep dust/ airborne particulate and organic vapor concentrations below OSHA personal exposure limits (PEL). Remove all smoke, dust, or fumes formed by welding, flame cutting, sanding or grinding surfaces coated with this material. Provide proper respiratory protection if ventilation or exhaust is inadequate.

SKIN PROTECTION REQUIREMENTS: Chemical resistant gloves are recommended, neoprene, nitrile, or butyl rubber. Cover as much of the exposed skin as possible with appropriate impervious clothing. If skin creams are used, keep the area protected by the cream to a minimum. Do not use skin creams to protect skin when working with acids or acid catalysts.

EYE PROTECTION: Eye protection should be worn in any type of industrial operation. The use of chemical goggles and a full face shield to prevent splash from liquids is recommended. Contact lenses should not be worn.

OTHER PROTECTIVE EQUIPMENT: The use of chemical resistant protective suit is suggested. Avoid any skin contact with vapors, mists, or spray. Prevent contact of materials with clothing if possible. Remove and wash contaminated clothing before re-use. Use an industrial type professional cleaning service, do not wash at home. Do not wear contaminated clothing or shoes away from the workplace. Leather products contaminated with this product should be discarded.

HYGIENIC PRACTICES: Emergency eye wash stations and safety showers are recommended. Wash hands prior to eating, using the washroom or smoking. Precautions must be taken so that persons handling this product do not breathe the vapors or have it contact the skin or eyes. In spray operations, protection must be afforded against exposure to both vapor and spray mist.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Follow safe warehousing procedures. Avoid puncturing the container. Keep containers away from excessive heat. KEEP FROM FREEZING!

OTHER PRECAUTIONS: Maintain a clean work area. Use only in a well ventilated area. VHAP=VOLATILE HAZARDOUS AIR POLLUTANT CAUTION! DO NOT TAKE INTERNALLY. Avoid breathing vapor/dust.

WARNING! This product contains chemicals known to the State of California to cause cancer or reproductive harm.

NOTICE: The HMIS rating for this material involves data and interpretations compiled from the various material suppliers of the component ingredients. This information will vary from supplier to supplier. The rating is intended for rapid and general identification of this product's hazards. To adequately deal with the safe handling of this material, all information contained in the MSDS must be reviewed as part of an ongoing Hazard Communication Program.

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This product complies with the Toxic Substances Control Act (TSCA) 40 CFR 700-799. The Material Safety Data Sheet (MSDS) complies with 29 CFR 1910.1200, Hazardous Communication Std. In the event of a TRANSPORTATION RELATED INCIDENT involving this product, CALL 1-800-688-4005. VOC content is determined by EPA method 24.

Avoid prolonged contact between this product and zinc, silver, copper, brass, aluminum and any alkali metal alloys. (for example; pumps, pipes, spray guns, storage containers)

REGULATORY INFORMATION: This product contains a Clean Water Act priority pollutant Copper. Do not allow this product to be spilled into or near watersheds or bodies of water.