

PRODUCT SPECIFICATIONS

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CUSTOMER SERVICE custserv@shebpaint.com

TRADE NAME
BLACK WR PROTECTIVE ENAMEL

MFG. PRODUCT NO.
73-2163A

CUSTOMER	:		
PART NUMBER	:		
WEIGHT PER GALLON (density)	:	8.70 POUNDS	
		BY WEIGHT	BY VOLUME
PERCENT SOLIDS	:	28.35	23.06
PERCENT WATER	:	59.37	61.98
PERCENT SOLVENT	:	11.97	14.60
% EXEMPT SOLVENT	:	.31	.36
VOC (WITH WATER AND EXEMPT SOLV) :		1.04 LBS/GAL	124.63 GMS/LITER
VOC (LESS WATER AND EXEMPT SOLV) :		2.76 LBS/GAL	330.76 GMS/LITER
PERCENT HAPS BY WEIGHT	:		
VOC LBS PER GALLON SOLIDS	:	4.51	
VOC KILOGRMS PER KILOGRMS SOLIDS:		.42	
VOC HAPS LBS PER GALLON SOLIDS	:		
VOC HAPS LBS PER LBS SOLIDS	:		
FLASHPOINT (FAHRENHEIT)	:	N/A	
APPLICATION	:	SPRAY	
REDUCTION	:	NONE-WATER IF NEEDED	
CURE	:	AIR DRY OR 8MIN@175F	
SUBSTRATE	:	METAL	
COVERAGE	:	369.882 SQUARE FEET @ 1 MIL NO LOSS	
VISC @ 80 F	:	63-67/3 ZAHN CUP **	
CRYPTOMETER	:	1-16#2 WEDGE	
GLOSS	:	85-100@1 MIL, HIGH*	
pH	:	8.5-9	

COMMENTS

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	71.65	76.94	8.6964	1.044	8.1

SECTION IV - FIRE & EXPLOSION HAZARDS

PROPER SHIPPING NAME - NOT REGULATED, WATER BASED PRODUCT
 SHIPPING LABEL - KEEP FROM FREEZING LABEL

KEEP FROM FREEZING
 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

This product contains Carbon Black, which is currently listed by OSHA and ACGIH as a nuisance dust hazard. Based upon an IARC study, there is sufficient evidence that carbon black is a carcinogen to lab animals, therefore carbon black is a class 2B carcinogen, possibly carcinogen to humans. Carbon black is not listed by NTP, OSHA, EPA or NIOSH as a carcinogen.

Exposure Limits For Carbon Black (dust): (CAS# 1333-86-4) OSHA (PEL): TWA = 3.5 mg/m3. ACGIH (TLV): TWA = 3.5 mg/m3.

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 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).

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).

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 __XX_STABLE

INCOMPATIBILITY (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 __XX_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)