

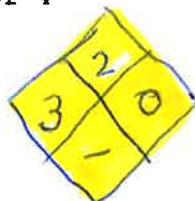


150 Hanley Industrial Ct • St. Louis, MO 63144-1599
 an **RPM** company • 314-644-1000

HEALTH: 3
 FLAMMABILITY: 2
 REACTIVITY: 0

CARBOLINE CO. MATERIAL SAFETY DATA SHEET

SECTION I - **PRODUCT: BITUMASTIC SUPER SERVICE BLACK (0024S5NL)**
Date: 05/26/94 Replaces 11/15/93 - VLF



CHEMTREC TRANSPORTATION EMERGENCY PHONE NO.: 800-424-9300
 PITTSBURGH POISON CONTROL CENTER HEALTH EMERGENCY NO.: 412-681-6669

SECTION II - HAZARDOUS INGREDIENTS EXPOSURE LIMITS

CHEMICAL NAME	(A)	(B)	(C)	(D)	(E)
COAL TAR	65996-89-6	40%	0.2mg/m3A2	NE	NE
SILICA	14808-60-7	30%	0.1MG/M3	NE	NE
INDENE	95-13-6	15%	10 PPM	NE	NE
ALUMINA	1344-28-1	10%	10mg/m3	NE	NE
ORGANOPHILIC CLAY	68953-58-2	5%	NE	NE	NE
COLOR PIGMENT	MIXTURE	5%	3.5MG/M3	NE	NE
ALUMINUM SILICATE	1332-58-7	5%	10mg/m3	NE	NE
TOLUENE	108-88-3	5%	100 PPM	150 PPM	NE
XYLENE	1330-20-7	5%	100 PPM	150 PPM	NE
COAL TAR DISTILLATE	65996-79-4	5%	100PPM	NE	NE
BENZENE	71-43-2	2%	1 PPM	5PPM-15MIN	NE
NAPHTHALENE	91-20-3	2%	10 PPM	15 PPM	NE

CHEMICAL NAME	HAZARDOUS INGREDIENTS (F)	ADDITIONAL DATA (G)
COAL TAR	NOT AVAILABLE	NO/NO/1,2
SILICA	NOT AVAILABLE	NO/NO/NR/NO
INDENE	NOT AVAILABLE	NO/NO/1
ALUMINA	NOT AVAILABLE	NO/YES/2
ORGANOPHILIC CLAY	NOT AVAILABLE	NO/NO
COLOR PIGMENT	NOT AVAILABLE	NO/NO
ALUMINUM SILICATE	NOT AVAILABLE	NO/NO
TOLUENE	2500 MG/KG RAT, ORAL	NO/YES/1,2,3/
	18000 PPM/4HRS RAT, INHALATION	1000#/U220
XYLENE	4300MG/KG RAT, ORAL	NO/YES/1,2,3/
	15000 PPM/4HRS RAT, INHALATION	1000#/U239
COAL TAR DISTILLATE	NOT AVAILABLE	NO/NO/NR/NO
BENZENE	NOT AVAILABLE	YES/YES/1,2,3
NAPHTHALENE	NOT AVAILABLE	NO/YES/1

TABLE (A) CAS NUMBER (B) LESS THAN WT (C) TLV-TWA (D) STEL (E) CEILING (F) TOXICITY DATA (LD50/Route, LC50/Route) (G) SARA 302/SARA 313/ SARA 311-312 CATEGORIES/CERCLA. NE = not established, NR = not required, NO = no. Color Pigment Mixture may contain Iron Oxides, Titanium Dioxide, Carbon Black, and other particulates not otherwise regulated in varying amounts depending on color of product.

WHMIS CLASSIFICATION: B3 -- D2A -- D2B
 HMIS/NFPA CLASSIFICATION: HEALTH 3, FLAMMABILITY 2, REACTIVITY 0,
 PERSONAL PROTECTION CODE G, NFPA FIRE FIGHTING PHASE 4

PRODUCT: BITUMASTIC SUPER SERVICE BLACK (0024S5NL)
Date: 05/26/94 Replaces 11/15/93 - VLF

SECTION III - PHYSICAL DATA:

BOILING RANGE: 176F(80C)-424F(217C). VAPOR DENSITY: Heavier than air.
EVAPORATION RATE: Slower than ether. VOLATILE BY WEIGHT 21 % VOLATILE BY
VOLUME: 32 %. PRODUCT WT/GAL: 12.3 LBS/U.S.GAL. 1.48 sp gr. VOC (MIXED
PRODUCT THINNED TO MAXIMUM LEVEL): 3.4 LBS/U.S.GAL. 407 gm/lr.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

FLAMMABILITY CLASSIFICATION: FLASH POINT: 102 F(38C) (Setaflash) LEL 1.0 %
UEL 7.1 %.
OSHA-PAINT/FLAMMABLE/LIQUID/3/UN1263/PGIII, DOT-PAINT,3,UN1263,PGIII,
CANADIAN TDGA: PAINT,3,UN1263,PGIII
EXTINGUISHING MEDIA: Dry Chemical, Foam, Carbon Dioxide, Water Fog.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and will
accumulate. Vapors will form explosive concentrations with air. Vapors
travel long distances and will flashback. Use mechanical ventilation when
necessary to keep percent vapor below the "Lower Explosion Level" (LEL).
SPECIAL FIRE FIGHTING PROCEDURES: Evacuate hazard area of unprotected
personnel. Use a NIOSH approved self-contained breathing unit and complete
body protection. Cool surrounding containers with water in case of fire
exposure.

SECTION V - HEALTH HAZARD DATA:

INHALATION: Harmful if inhaled, may affect the brain or nervous system,
causing dizziness, headache or nausea. May cause nose and throat irritation.
CONTACT: May cause eye irritation. May cause skin irritation.
NOTICE: Contains BENZENE, COAL TAR, INDENE, NAPHTHALENE and SILICA which can
cause cancer. Risk of cancer depends on duration and level of exposure.
Reports have associated repeated and prolonged occupational overexposure to
solvents with permanent brain and nervous system damage.
MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: If you have a condition
that could be aggravated by exposure to dust or organic vapors see a
physician prior to use.
PRIMARY ROUTE(S) OF ENTRY: Inhalation, Dermal, Ingestion.
EMERGENCY FIRST AID PROCEDURES: When exposed always get medical attention.
EYE CONTACT: Flush with water for 15 minutes.
SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and
clean before reuse.
INHALATION: Remove to fresh air. Provide oxygen if breathing is difficult.
Use artificial respiration if not breathing. Get medical attention.
IF SWALLOWED: DO NOT INDUCE VOMITING!! Always get medical attention.

SECTION VI - REACTIVITY DATA:

STABILITY: This product is stable under normal storage conditions.
HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.



350 Hanley Industrial Ct. • St. Louis, MO 63144-1599

an **RPM** company • 314-644-1000

CARBOLINE CO. MATERIAL SAFETY DATA SHEET

PAGE 3 of 4

PRODUCT: BITUMASTIC SUPER SERVICE BLACK (0024S5NL)
Date: 05/26/94 Replaces 11/15/93 - VLF

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, nitrogen oxides, and unidentified organic compounds. Consider all smoke and fumes from burning material as very hazardous. Welding, cutting or abrasive grinding can create smoke and fumes. Do not breathe.

CONDITIONS TO AVOID: Heat, sparks, and open flames.

INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

SECTION VII - SPILL OR LEAK PROCEDURES:

STEPS TO BE TAKEN IN CASE OF SPILL: Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Evacuate the area of unprotected personnel. Wear appropriate personal protection clothing and equipment. Follow safe handling and use guidelines in Section VIII. Contain and soak up residual with an absorbent (clay or sand). Take up absorbent material and seal tightly for proper disposal. Dispose of in accordance with local, state and federal regulations. Refer to Section II for Sara Title III and CERCLA information.

SECTION VIII - SAFE HANDLING AND USE INFORMATION:

RESPIRATORY PROTECTION: Use only with ventilation to keep levels below exposure guidelines. (Section II). User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor use MSHA/NIOSH approved air-purifying respirator.

VENTILATION: Use explosion-proof ventilation when required to keep below health exposure guidelines and Lower Explosion Limit (LEL).

SKIN AND EYE PROTECTION: Recommend impervious gloves, clothing and safety glasses with side shields or chemical goggles to avoid skin and eye contact. If material penetrates to skin, change gloves and clothing.

HYGIENIC PRACTICES: Wash with soap and water before eating, drinking, applying cosmetics, or using toilet facilities. Use of a hand cleaner is recommended. Launder contaminated clothing before reuse. Leather shoes can absorb and pass through hazardous materials. Check shoes carefully after soaking before reuse.

SECTION IX - SPECIAL PRECAUTIONS:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep away from heat, sparks, open flame, and strong oxidizing agents. Keep containers closed. Store in cool, dry place with adequate ventilation. If pouring or transferring materials, ground all containers and tools.

OTHER PRECAUTIONS: Do not weld, heat, cut or drill on full or empty containers.

The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.



350 Hanley Industrial Ct. • St. Louis, MO 63144-1599
an  company • 314-644-1000

CARBOLINE CO. MATERIAL SAFETY DATA SHEET

PAGE 4 of 4

PRODUCT: BITUMASTIC SUPER SERVICE BLACK (0024S5NL)
Date: 05/26/94 Replaces 11/15/93 - VLF

Carboline Company 350 Hanley Ind. Ct. St. Louis, MO 63144
PHONE NO. 314-644-1000 FOR INDUSTRIAL USE ONLY