



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

HEALTH: 3  
 FLAMMABILITY: 2  
 REACTIVITY: 0

CARBOLINE CO. MATERIAL SAFETY DATA SHEET

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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              | 95-15-6    | 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

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## 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.



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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.



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