



350 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

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SECTION I - PRODUCT: BITUMASTIC BLACK SOLUTION (0023S5NL)
 Date: 05/26/94 Replaces 05/18/94 - 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	65%	0.2mg/m ³ A2	NE	NE
INDENE	95-13-6	20%	10 PPM	NE	NE
COAL TAR DISTILLATE	55996-79-4	10%	100PPM	NE	NE
TOLUENE	108-88-3	5%	100 PPM	150 PPM	NE
XYLENE	1330-20-7	5%	100 PPM	150 PPM	NE
PETROLEUM ASPHALT	8052-42-4	4%	5 mg/m ³	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
INDENE	NOT AVAILABLE	NO/NO/1
COAL TAR DISTILLATE	NOT AVAILABLE	NO/NO/NR/NO
TOLUENE	2500 MG/KG RAT, ORAL 18000 PPM/4HRS RAT, INHALATION	NO/YES/1,2,3/ 1000#/U220
XYLENE	4300MG/KG RAT, ORAL 15000 PPM/4HRS RAT, INHALATION	NO/YES/1,2,3/ 1000#/U239
PETROLEUM ASPHALT	NOT AVAILABLE	NO/NO/1,2
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

SECTION III - PHYSICAL DATA:

BOILING RANGE: 176F(80C)-424F(217C). VAPOR DENSITY: Heavier than air.
 EVAPORATION RATE: Slower than ether. VOLATILE BY WEIGHT 35 %. VOLATILE BY VOLUME: 40 %. PRODUCT WT/GAL: 9.4 LBS/U.S.GAL. 1.12 sp gr. VOC (MIXED PRODUCT THINNED TO MAXIMUM LEVEL): 3.5 LBS/U.S.GAL. 419 gm/lr.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

FLAMMABILITY CLASSIFICATION: FLASH POINT: 109 F(42C) (Setaflash) LEL 1.0 %



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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. May cause
allergic skin reaction.

NOTICE: Contains PETROLEUM ASPHALT, BENZENE, COAL TAR, INDENE and NAPHTHALENE
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 sensitized to
amines, epoxies or other chemicals do not use. See a physician if a medical
condition exists.

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.

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.



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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.

Carboline Company 350 Hanley Ind. Ct. St. Louis, MO 63144
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