

SECTION I - PRODUCT: CARBOZINC 859 PART B (0486C1NT.)
 Date: 08/18/00 Replaces 06/27/00
 (aka CARBOLINE 859 PART B)
 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)
TOLUENE	108-88-3	50%	50 PPM	150 PPM	NE
ISOPROPANOL	67-63-0	25%	400 PPM	500 PPM	NE
CYCLOALIPHATIC AMINE	TRADE SECRET	10%	NE	NE	NE
ALKYL PHTHALATE	68515-42-4	10%	NE	NE	NE
BENZYL ALCOHOL	100-51-6	5%	NE	NE	NE
DIAMINOCYCLOHEXANE	694-83-7	5%	NE	NE	NE
TDMAM PHENOL	90-72-2	5%	NE	NE	NE
XYLENE	1330-20-7	5%	100 PPM	150 PPM	NE

CHEMICAL NAME	HAZARDOUS INGREDIENTS (F)	ADDITIONAL DATA	(G)
TOLUENE	5.0 G/KG RAT ORAL, 8000 PPM/4HRS, RAT, INHALATION	14G/KG RABBIT DERMAL	NO/YES/1,2,3 1000#/U220
ISOPROPANOL	4720MG/KG RAT,ORAL 16000PPM/8HRS RAT,INHALATION		NO/NO/1,2,3
CYCLOALIPHATIC AMINE	1230 MG/KG ORAL RAT;2000 MG/KG DERMAL		NO/NO/1,2
ALKYL PHTHALATE	NOT AVAILABLE		NO/NO
BENZYL ALCOHOL	1230MG/KG RAT,ORAL 1000PPM/8HRS RAT,INHALATION		NO/NO
DIAMINOCYCLOHEXANE	1752 MG/KG, RAT, ORAL NE		NO/NO
TDMAM PHENOL	2169 MG/KG ORAL		NO/NO
XYLENE	4300MG/KG RAT,ORAL 15000 PPM/4HRS RAT,INHALATION		NO/YES/1,2, 1000#/U239

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. Col 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: B2 -- D2A -- D2B
 HMIS/NFPA CLASSIFICATION: HEALTH 3, FLAMMABILITY 3, REACTIVITY 0,
 PERSONAL PROTECTION CODE G, NFPA FIRE FIGHTING PHASE 4

SECTION III - PHYSICAL DATA:

BOILING RANGE: 180F(82C)-284F(140C). VAPOR DENSITY: Heavier than air.
 EVAPORATION RATE: Slower than ether. VOLATILE BY WEIGHT 74 %. VOLATIL
 VOLUME: 77 %. PRODUCT WT/GAL: 7.3 LBS/U.S.GAL. 0.88 sp gr.

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

FLAMMABILITY CLASSIFICATION: FLASH POINT: 38 F(3C) (Setaflash) LEL 1.0 %
UEL 12.0 %.

OSHA-FLAMMABLE LIQUID/OSHA/CLASS/1B, DOT-FLAMMABLE LIQUID,NOS*,3,UN1993,PGII,
CANADIAN TDGA: FLAMMABLE LIQUID,NOS*,3,UN1993,PGII

EXTINGUISHING MEDIA: Dry Chemical, Foam, Carbon Dioxide, Water Fog.

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). Eliminate all
ignition sources. Keep away from sparks, open flames and heat sources. All
electric equipment and installations should be made and grounded in
accordance with the National Electrical Code. In areas where explosion
hazards exist, workers should be required to use nonferrous tools and to wear
conductive and non-sparking shoes.

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.
May cause lung irritation. May cause allergic respiratory reaction, effect:
may be permanent.

CONTACT: May cause eye burns. May be harmful if absorbed through the skin
May cause skin burns.

NOTICE: 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.

DECOMPOSITION PRODUCTS: Carbon monoxide, nitrogen oxides, and

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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 any fumes or smoke from these operations. 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 ensure all personnel are below guidelines. If not sure, or not able to monitor, use MSHA/NIOSH approved supplied air respirator. Follow all current OSHA requirements for respirator use.
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. Hypersensitive persons should wear gloves or use protective cream.
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.
APPLICATION: Use only in accordance with Carboline application instructions, container label and Product Data Sheet.

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.

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ation contained herein is, to the best of our knowledge and belief
However, since the conditions of handling and use are beyond our
e make no guarantee of results, and assume no liability for damages
y use of this material. It is the responsibility of the user to
h all applicable federal, state, and local laws and regulations.

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

314-644-1000

FOR INDUSTRIAL USE ONLY

CARBOLINE CO. MATERIAL SAFETY DATA SHEET
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SPECIFIC STATE REGULATORY INFORMATION

NEW JERSEY

PENNSYLVANIA

Non-Hazardous Materials above 1 Percent:

Name	CAS	Pct
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No materials meet this criteria

CALIFORNIA

WARNING: This product contains a chemical(s)
known to the State of California to cause
cancer, and birth defects or other reproductive harm.