

# MSDS for Carbazole



Material Safety Data Sheet  
Carbazole

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** Carbazole  
**Catalog Numbers:** 10826-0000, 10826-0050, 10826-0250, 10826-2500  
**Synonyms:** 9-Azafluorene; Dibenzopyrrole; Diphenylenimine  
**Company Identification:** Acros Organics BVBA  
Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium  
**Company Identification: (USA)** Acros Organics  
One Reagent Lane  
Fair Lawn, NJ 07410  
**For information in the US, call:** 800-ACROS-01  
**For information in Europe, call:** +32 14 57 52 11  
**Emergency Number, Europe:** +32 14 57 52 99  
**Emergency Number US:** 201-796-7100  
**CHEMTREC Phone Number, US:** 800-424-9300  
**CHEMTREC Phone Number, Europe:** 703-527-3887

## Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
86-74-8	Carbazole	96%	201-696-0

**Hazard Symbols:** XN N



**Risk Phrases:** 36/37/38 40 50/53

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

*Irritating to eyes, respiratory system and skin. Limited evidence of a carcinogenic effect.  
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

### Potential Health Effects

**Eye:** Causes eye irritation.  
**Skin:** Causes skin irritation. May be harmful if absorbed through the skin.  
**Ingestion:** May cause irritation of the digestive tract.  
**Inhalation:** Causes respiratory tract irritation. May be harmful if inhaled.  
**Chronic:** Limited evidence of a carcinogenic effect.

## Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.  
**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** Get medical aid. Wash mouth out with water.  
**Inhalation:** Remove from exposure and move to fresh air immediately. Get medical aid.  
**Notes to Physician:** Treat symptomatically and supportively.

### **Section 5 - Fire Fighting Measures**

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.  
**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.

### **Section 6 - Accidental Release Measures**

**General Information:** Use proper personal protective equipment as indicated in Section 8.  
**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Do not let this chemical enter the environment.

### **Section 7 - Handling and Storage**

**Handling:** Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Use only in a chemical fume hood.  
**Storage:** Store in a cool, dry place. Store in a tightly closed container.

### **Section 8 - Exposure Controls, Personal Protection**

#### **Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

#### **Exposure Limits**

CAS# 86-74-8:

#### **Personal Protective Equipment**

**Eyes:** Wear chemical splash goggles.  
**Skin:** Wear appropriate protective gloves to prevent skin exposure.  
**Clothing:** Wear appropriate protective clothing to prevent skin exposure.  
**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### **Section 9 - Physical and Chemical Properties**

**Physical State:** Solid

**Color:** beige - yellow - brown

**Odor:** pungent odor

**pH:** Not available

**Vapor Pressure:** 400mmHg @323 deg C

**Viscosity:** Not available

**Boiling Point:** 355 deg C @760mmHg ( 671.00癈)

**Freezing/Melting Point:** 240 - 246 deg C

**Autoignition Temperature:** 540 deg C ( 1,004.00 deg F)

**Flash Point:** 220 deg C ( 428.00 deg F)

**Explosion Limits: Lower:** Not available

**Explosion Limits: Upper:** Not available

**Decomposition Temperature:** Not available

**Solubility in water:** Insoluble

**Specific Gravity/Density:****Molecular Formula:** C<sub>12</sub>H<sub>9</sub>N**Molecular Weight:** 167.21**Section 10 - Stability and Reactivity**

<b>Chemical Stability:</b>	Stable under normal temperatures and pressures.
<b>Conditions to Avoid:</b>	Incompatible materials.
<b>Incompatibilities with Other Materials</b>	Strong oxidizing agents, strong bases.
<b>Hazardous Decomposition Products</b>	Nitrogen oxides, carbon monoxide, carbon dioxide.
<b>Hazardous Polymerization</b>	Will not occur.

**Section 11 - Toxicological Information**

<b>RTECS#:</b>	CAS# 86-74-8: FE3150000
<b>LD50/LC50:</b>	RTECS: Not available. Other: Oral, rat: LD50 > 5000 mg/kg
<b>Carcinogenicity:</b>	Carbazole - California: carcinogen, initial date 5/1/96 IARC: Group 3 (not classifiable)
<b>Other:</b>	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

**Section 12 - Ecological Information**

<b>Ecotoxicity:</b>	Daphnia: Daphnia: EC50: 2.3-4.9 mg/L; 48H; . Fish: Fathead Minnow: LC50: 0.93 mg/L; 96H; .
<b>Other:</b>	Do not empty into drains. Non-biodegradable. log Pow: 3.72

**Section 13 - Disposal Considerations**

Dispose of in a manner consistent with federal, state, and local regulations.

**Section 14 - Transport Information**

	<b>IATA</b>	<b>IMO</b>	<b>RID/ADR</b>
<b>Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.*	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
<b>Hazard Class:</b>	9	9	9
<b>UN Number:</b>	3077	3077	3077
<b>Packing Group:</b>	III	III	III

**Section 15 - Regulatory Information****European/International Regulations**

European Labeling in Accordance with EC Directives

Hazard Symbols: XN N

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 40 Limited evidence of a carcinogenic effect.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 60 This material and its container must be disposed of as hazardous waste.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 86-74-8: 2

Canada

CAS# 86-74-8 is listed on Canada's DSL List

## **US Federal**

TSCA

CAS# 86-74-8 is listed on the TSCA Inventory.

## **Section 16 - Other Information**

**MSDS Creation Date:** 7/16/1996

**Revision #2 Date** 11/13/2007

**Revisions were made in Sections:** 3, 8, 9, 14

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