

Intersperse Industries

C-1/7, Plot:-67/16, Abhyudya Bank lane, Phase: - I GIDC Vatwa, Ahmedabad.

Section 1: Chemical Product and Company Identification

Product Name	: Carbazole
Catalog Codes	: I 009
CAS#	: 86-74-8
RTECS	: FE3150000
TSCA	: TSCA 8(b) inventory: Carbazole
Cl#	: Not available.
Synonym	: 9-Azafluorene; 9H-Carbazole; Dibenzo (b, d) ppyrrole; Dibenzopyrrole; Diphenyleneimine; Diphenylenimide; Diphenylenimine
Chemical Name	: Carbazole
Chemical Formula	: C12-H9-N
Company Identification:	: Intersperse Industries C/1/7 Plot No 67/16 Manek Chowk Bank Lane G.I.D.C. Phase I Vatwa, City Ahmedabad State Province Gujarat Country India
Company Phone No	: + 91-79-25890086, + 91-79-65235899
Fax	: + 91-79-25894529
Emergency Phone No	: + 91-79-25890086

Section 2: Composition and Information on Ingredients

Composition:

Name CAS # % by Weight

Carbazole 86-74-8 100

Toxicological Data on Ingredients: Not applicable.

Section 3: Hazards Identification

Potential Acute Health Effects:

Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS	: 3 (Not classifiable for human.)
MUTAGENIC EFFECTS	: Not available.
TERATOGENIC EFFECTS	: Not available.
DEVELOPMENTAL TOXICITY	: Not available.

Repeated or prolonged exposure is not known to aggravate medical condition.

Intersperse Industries

C-1/7, Plot:-67/16, Abhyudya Bank lane, Phase: - I GIDC Vatwa, Ahmedabad.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15minutes. Get medical attention if irritation occurs.

Skin Contact:

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Serious Skin Contact: Not available.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product	: May be combustible at high temperature.
Auto-Ignition Temperature	: Not available.
Flash Points	: Not available.
Flammable Limits	: Not available.
Products of Combustion	: These products are carbon oxides (CO, CO2).
Fire Hazards	
In Presence of Various Substances	: Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.
Explosion Hazards	
In Presence of Various Substances	: Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.
<u>Fire Fighting Media and Instructions:</u>	
SMALL FIRE	: Use DRY chemical powder.
LARGE FIRE	: Use water spray, fog or foam.
Do not use water jet.	
Special Remarks on Fire Hazards	: As with most organic solids, fire is possible at elevated temperatures. When heated to decomposition it emits toxic fumes of Nitrogen oxides

Special Remarks on Explosion Hazards:

Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Intersperse Industries

C-1/7, Plot:-67/16, Abhyudya Bank lane, Phase: - I GIDC Vatwa, Ahmedabad.

Section 6: Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.

Section 7: Handling and Storage

Precautions:

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Engineering Controls :

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Intersperse Industries

C-1/7, Plot:-67/16, Abhyudya Bank lane, Phase: - I GIDC Vatwa, Ahmedabad.

Section 9: Physical and Chemical Properties

Physical state and appearance	: Solid. (Crystalline Material)
Odor	: Not available.
Taste	: Not available.
Molecular Weight	: 167.21 g/mole
Color	: Off White 6.5 to 7.0
pH (1% soln/water)	: Not applicable.
Boiling Point	: 355°C (671°F)
Melting Point	: 245°C (473°F)
Critical Temperature	: Not available.
Specific Gravity	: Density: 1.1 @ 18 deg. C(Water = 1)
Vapor Pressure	: Not applicable.
Vapor Density	: Not available.
Volatility	: Not available.
Odor Threshold	: Not available.
Water/Oil Dist. Coeff.	: Not available.
Iconicity (in Water)	: Not available.
Dispersion Properties	: See solubility in water, acetone.

Solubility:

Partially soluble in acetone. Very slightly soluble in diethyl ether. Insoluble in cold water, hot water. 1 gram is soluble in 3 ml Quinoline, 6 ml Pyridine, 9 ml Acetone, 2 ml Acetone @ 50 deg. C., 35 ml Ether, 120 ml Benzene, 135 ml absolute alcohol. Slightly soluble in Petroleum Ether, chlorinated hydrocarbons, Acetic acid, Carbon Disulfide. Soluble in hot Chloroform, Toluene.

Section 10: Stability and Reactivity Data

Stability	: The product is stable in normal material.
Instability Temperature	: Not available.
Conditions of Instability	: Excess heat, incompatible materials, dust generation
Incompatibility with various substances	: Reactive with oxidizing agents.
Corrosivity	: Not available.
Special Remarks on Reactivity	: Not available.
Special Remarks on Corrosivity	: Not available.
Polymerization	: Will not occur.

Intersperse Industries

C-1/7, Plot:-67/16, Abhyudya Bank lane, Phase: - I GIDC Vatwa, Ahmedabad.

Section 11: Toxicological Information

Routes of Entry	: Inhalation. Ingestion.
Toxicity to Animals	: Acute oral toxicity (LD50): >5000 mg/kg [Rat].
Chronic Effects on Humans	: CARCINOGENIC EFFECTS: 3 (Not classifiable for human.)
Other Toxic Effects on Humans	: Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of inhalation.
Special Remarks on Toxicity to Animals	: Lowest Published Lethal Dose: LDL [Rat] - Route: Oral; Dose: 500 mg/kg Lethal Dose/Conc 50% Kill: LD50 [Mouse] - Intraperitoneal; Dose: 200 mg/kg Lethal Dose/Conc: LD [Mouse] - Route: Oral; Dose: >400 mg/kg
Special Remarks on Chronic Effects on Humans	: May affect genetic material (mutagenic). May cause cancer based on animal test data.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects:

Skin	: May cause skin irritation.
Eyes	: May cause eye irritation.
Inhalation	: May cause respiratory tract irritation.
Ingestion and diarrhea.	: May cause gastrointestinal tract irritation with nausea, vomiting

Chronic Potential Health Effects:

Ingestion	: Prolonged or repeated ingestion may affect the liver and cause weight loss.
-----------	---

Section 12: Ecological Information

Ecotoxicity	: Not available.
BOD5 and COD	: Not available.
Products of Biodegradation	: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	: The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation:	Not available.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification	: Not a DOT controlled material (United States).
Identification	: Not applicable.
Special Provisions for Transport	: Not applicable.

Intersperse Industries

C-1/7, Plot:-67/16, Abhyudya Bank lane, Phase: - I GIDC Vatwa, Ahmedabad.

Section 15: Other Regulatory Information

Federal and State Regulations:

California prop. 65:

This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute:

Carbazole California prop. 65:

This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute:

Carbazole California Director's List of Hazardous Substances:

Carbazole TSCA 8(b) inventory:

Carbazole TSCA 8(d) H and S data reporting:

Carbazole: Effective date: 3/07/86; Sunset date: 3/07/96

Other Regulations: EINECS:

This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada)	: Not controlled under WHMIS (Canada).
DSCL (EEC)	:
R40-	: Limited evidence of carcinogenic effect S24/25- Avoid contact with skin and eyes.
HMIS (U.S.A.)	:
Health Hazard	: 2
Fire Hazard	: 1
Reactivity	: 0
Personal Protection	: E
National Fire Protection Association (U.S.A.)	:
Health	: 2
Flammability	: 1
Reactivity	: 0
Specific hazard	:
Protective Equipment	: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Intersperse@live.com has been advised of the possibility of such damages.