



Material Safety Data Sheet

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
×	Irritating to skin, eyes, and the respiratory system.	

Section I. C	Chemical Product and Company	/ Identification	
Chemical Name	Biphenyl-4-carboxylic	c Acid	
Catalog Number	P0961	Supplier	TCI America 9211 N. Harborgate St.
Synonym	4-Phenylbenzoic Acid		Portland OR 1-800-423-8616
Chemical Formula	$C_{13}H_{10}O_2$		
CAS Number	92-92-2	In case of Emergency Call	Chemtrec® (800) 424-9300 (U.S.) (703) 527-3887 (International)

Section II. Composition and Information on Ingredients					
Chemica	al Name	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
Biphenyl-4-carboxylic Acid		92-92-2	Min. 98.0 (T)	Not available.	Not available.

Section III.	Hazards Identification
Acute Health Effects	Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.
Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Reproductive: rat (oral) 1000mg/kg. Duration: female 7-16 days of pregnancy. Effects on embryo or fetus- Fetotoxicity. Effects on embryo or fetus- Fetal death. Specific developmental abnormalities- Body wall. Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

Section IV.	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 15 minutes. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation	If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do not improve.
Ingestion	INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. SEEK IMMEDIATE MEDICAL ATTENTION in case of ingestion of a radioactive material.
0	Fire and Femiliation Date

Section V.	Fire and Explosion Data			
Flammability	May be combustible at high temperature.	Auto-Ignition	Not available.	
Flash Points	Not available.	Flammable Limits	Not available.	
Combustion Products	These products are toxic carbon oxides (CO,	These products are toxic carbon oxides (CO, CO ₂).		
Fire Hazards	Not available.			
Explosion Hazards	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.			
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam.	DO NOT use water jet.		

P0961 Biphenyl-4-carboxylic Acid Page 2 Section VI. Accidental Release Measures Spill Cleanup In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Use a Instructions shovel to put material into a convenient waste disposal container. Finish cleaning the spill by rinsing any contaminated surfaces with copious amounts of water. Consult federal, state and/or local authorities for assistance on disposal. Section VII. Handling and Storage IRRITANT. Keep away from heat. Mechanical exhaust required. When not in use, tightly seal the container and store in a Handling and Storage dry, cool place. Avoid excessive heat and light. Do not breathe dust. Information Always store away from incompatible compounds such as oxidizing agents Section VIII. 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. Splash goggles. Lab coat. Dust respirator. Boots. Gloves. Be sure to use a MSHA/NIOSH approved respirator or Personal Protection equivalent. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. Not available. **Exposure Limits** Physical and Chemical Properties Section IX. Off-white powder and chunks. Solubility Physical state @ 20°C Not available. Not available. Specific Gravity 198.22 Molecular Weight Partition Coefficient Not available. Not available. **Boiling Point** Vapor Pressure Not applicable. 225 to 226 °C (437 to 438.8 °F) Melting Point Vapor Density Not available. Not available. Not available. Volatility Refractive Index Not available. Not available. Odor Critical Temperature Viscosity Not available. Taste Not available Section X. Stability and Reactivity Data This material is stable if stored under proper conditions. (See Section VII for instructions) Stability Conditions of Instability Avoid excessive heat and light. Incompatibilities Reactive with strong oxidizing agents. Section XI. Toxicological Information RTECS Number DV1925100 Eye Contact. Ingestion. inhalation. Skin contact. Routes of Exposure

Toxicity Data Not available.

Chronic Toxic Effects CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Reproductive: rat (oral) 1000mg/kg. Duration: female 7-16 days of pregnancy.

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is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Follow safe industrial hygiene practices and always wear proper protective equipment when handling

this compound.

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Section XII. **Ecological Information** Ecotoxicity Not available. Environmental Fate Not available.

Section XIII. Disposal Considerations

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissove or mix material with a Waste Disposal combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and locl regulations when disposing of the substance.

Section XIV. Transport Information

DOT Classification Not a DOT controlled material (United States).

PIN Number Not applicable.

Proper Shipping Name Not applicable.

Packing Group (PG) Not applicable.

DOT Pictograms



Section XV. Other Regulatory Information and Pictograms

TSCA Chemical Inventory

(EPA)

This compound is **ON** the EPA Toxic Substances Control Act (TSCA) inventory list.

WHMIS Classification

not available

(Canada) EINECS Number (EEC)

202-203-1

EEC Risk Statements

R36/37/38- Irritating to eyes, respiratory system and skin.

Japanese Regulatory Data

Not available.

Section XVI. Other Information

Version 1.0 Validated on 11/22/2000. Printed 8/4/2011.

Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

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