dibenzofuran 132-64-9 MSDS

Section 1 - Chemical Product

MSDS Name:Dibenzofuran 99+% Material Safety Data Sheet
Synonym:Diphenylene oxide; 2,2'-Biphenylene oxide; Dibenzo(b,d)furan

Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
132-64-9	Dibenzofuran	>99	205-071-3

Hazard Symbols: None Listed.
Risk Phrases: None Listed.

Section 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
The toxicological properties of this material have not been fully investigated.
Potential Health Effects
Eye:
Causes eye irritation.
Skin:
May cause skin irritation.
Ingestion:
May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.
Inhalation:
May cause respiratory tract irritation.
Chronic:
No information found.

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:
Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.
Ingestion:
Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Wash mouth out with water.
Inhalation:
Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. Get medical aid.
Notes to Physician:

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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.
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. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions.
Provide ventilation. Do not let this chemical enter the environment.

Section 7 - HANDLING and STORAGE

Handling:
Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid breathing dust.
Storage:
Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

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. Local exhaust may be necessary to control concentrations to acceptable levels.
Exposure Limits CAS# 132-64-9: Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin:
Wear appropriate protective gloves to prevent skin exposure.
Clothing:
Wear a chemical apron.
Respirators:
A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
Color: white
Odor: Not available.
pH: Not available.
Vapor Pressure: .0044 mm Hg @ 25 deg C
Viscosity: Not available.

Boiling Point: 285 deg C @ 760 mm Hg
Freezing/Melting Point: 81 - 85 deg C
Autoignition Temperature: Not applicable.
Flash Point: 130 deg C (266.00 deg F)
Explosion Limits, lower: Not available.
Explosion Limits, upper: Not available.
Decomposition Temperature:
Solubility in water: Insoluble.
Specific Gravity/Density:
Molecular Formula: C12H8O
Molecular Weight: 168.19

Section 10 - STABILITY AND REACTIVITY

Chemical Stability:
Stable at room temperature in closed containers under normal storage and handling conditions.
Conditions to Avoid:
Dust generation, excess heat.
Incompatibilities with Other Materials:
Strong oxidizing agents.
Hazardous Decomposition Products:
Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.
Hazardous Polymerization: Has not been reported.

Section 11 - TOXICOLOGICAL INFORMATION

RTECS#:
CAS# 132-64-9: HP4430000 LD50/LC50:
Not available.
Carcinogenicity:
Dibenzofuran - Not listed by ACGIH, IARC, or NTP.
Other:
See actual entry in RTECS for complete information.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity:
Fish toxicity : time to produce sickness at 5 ppm : brown trout 4 hr.; bluegill sunfish 6 hr; goldfish 6 hr. All species died within 8 hr. Time to produce sickness at 1 ppm : brown trout 22 hr. Water characteristics for tests were pH7, dissolved oxygen conc. 7.5 ppm, total hardness 300ppm (soap method), methyl orange alkalinity 310ppm, free carbon dioxide 5 ppm, temperature 35°C (USEPA August 1987. Part I : The toxicity of 3400 chemicals to fish EPA 560/6-87-002)

Section 13 - DISPOSAL CONSIDERATIONS

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

Section 14 - TRANSPORT INFORMATION

IATA

Not regulated as a hazardous material.

IMO

Not regulated as a hazardous material.

RID/ADR

Not regulated as a hazardous material.

USA RQ: CAS# 132-64-9: 100 lb final RQ; 45.4 kg final RQ

Section 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 132-64-9: No information available.

Canada

CAS# 132-64-9 is listed on Canada's DSL List.

CAS# 132-64-9 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 132-64-9 is listed on the TSCA inventory.

SECTION 16 - ADDITIONAL INFORMATION

N/A