

Material Safety Data Sheet

G 5149

QUICK IDENTIFIER is Most Common Name

Dibutyl ether

Manufacturer's Name	Wacker-Chemie GmbH	Emergency Telephone No.	800-424-9300
Address	Prinzregentenstr. 22 8000 München 22 Fed. Republic of Germany	Other Information Calls	203-966-9999
Signature of Person Responsible for Preparation	Th. Pater	Date Prepared	Aug. 8, 1990

SECTION 1 - IDENTITY

Common Name (used on label) (Trade Name & Synonyms)	Dibutyl ether	Cas No.	142-96-1
Chemical Name	butane-1,1'-oxybis	Chemical Family	ether
Formula	$C_8H_{18}O$		

SECTION 2 - HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) chemical & common names	%	Threshold Limit Value (mg/m ³)
dibutyl ether	>99%	n.e.

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS (Fire & Explosion Data)

Boiling Point (1013 mbar)	142.4°C (288°F)	Specific Gravity (H ₂ O = 1)	0.768	Vapor Pressure (mm Hg)	6.4 mbar
Percent Volatile by Volume (%)	n.a.	Vapor Density (Air = 1)	4.48	Evaporation Rate (H ₂ O = 1)	19
Solubility in Water	68°F/20°C	0.03%	Reactivity in Water	not applicable	
Appearance and Odor	Colourless, neutral, readily flammable liquid with low volatility				

It is immiscible with water and miscible with most organic solvents

Flash Point	25°C/77°F	Flammable Limits in Air % by Volume	Lower 0.9 Upper 8.5	Extinguisher Media	all standard media	Auto-Ignition Temperature	185°C/365°F
-------------	-----------	-------------------------------------	---------------------	--------------------	--------------------	---------------------------	-------------

Special Fire Fighting Procedures Cool endangered containers near the fire with water jet.

Cover larger fire with foam.

Unusual Fire and Explosion Hazards Forms explosible mixtures with air, also in empty, uncleaned containers.

SAL 000009676

GS 148

SECTION 4 - PHYSICAL HAZARDS

Stability ☐ Unstable ☒ Stable ☐ Conditions ☒ to Avoid Protect against air and light since it forms explosible peroxide.

Incompatibility (Materials to Avoid) air-oxygen

Hazardous Decomposition Products none

Hazardous Polymerisation ☐ May Occur ☐ Conditions ☒ Will Not Occur ☒ to Avoid

SECTION 5 - HEALTH HAZARDS

Threshold Limit Value unknown

Signs and Symptoms of Exposure 1. Acute Overexposure LD₅₀ (rat, oral) 7400 mg/kg; LCL (inh., rat) 4 h/4,000 ppm

2. Chronic Overexposure Slight irritation of skin, eyes and respiratory system

Medical Conditions Generally Aggravated by Exposure unknown

Chemical Listed as Carcinogen or Potential Carcinogen no National Toxicology Program Yes ☐ No ☒ I.A.R.C. Monographs Yes ☐ No ☒ OSHA Yes ☐ No ☒

OSHA Permissible Exposure Limit n.a. ACGIH Threshold Limit Value n.a. Other Exposure Limit Used n.a.

Emergency and First Aid Procedures

1. Inhalation Fresh air, if complaints consult a doctor

2. Eyes Rinse for some minutes with water and consult a doctor.

3. Skin Wash with soap and water, remove affected clothes, if complaints consult a doctor.

4. Ingestion Rinse mouth, consult a doctor.

SECTION 6 - SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type) no

Ventilation yes Local Exhaust Mechanical (General) Special Other

Protective Gloves yes Eye Protection yes

Other Protective Clothing or Equipment none

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage Cover larger containers with inert gas. Keep away from all ignition sources (sparks, cigarettes).

Other Precautions Tends to become electrostatically charged, therefore ground personnel, funnels and containers.

Steps to be Taken in Case Material is Released or Spilled Take up with liquid binding material (e.g. Kieselgur).

Flush smaller amounts with water.

Waste Disposal Methods Deposit at an authorized plant or incinerate material taking into consideration the local bye-laws.

n.a. = not available

n.e. = not established

SAL 000009677