



Material Safety Data Sheet

Company: DALCHEM, MOSKOVSKOE SHOSSE, 85, Nizhny Novgorod, 603000, RUSSIA
TEL: + 7 (8312) 753-772, FAX: +7 (8312) 750-799

SECTION 1: Product Identification

Product name	1-Bromo-1'-dicyclohexylphosphinoferrocene, 97%
CAS #	Not available
Catalog #	0262700
Chemical family	Metallocene phosphino derivatives

SECTION 2: Composition, Information on Ingredients

Component	%	CAS #	EINECS #	Hazard Symbol	R-Phrase
1-Bromo-1'-dicyclohexylphosphinoferrocene	97	Not available	No data	none	none

SECTION 3: Hazard Identification

Emergency overview	Irritating to the eyes, skin and respiratory tract.
Eye contact	May cause slight irritation of the eyes.
Skin contact	May cause slight irritation of the skin.
Inhalation	May cause slight irritation of the respiratory tract.
Ingestion	May be harmful if swallowed.
Chronic health effects	No available information about long-term effects.

SECTION 4: First Aid Measures

Eye exposure	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin exposure	Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
Inhalation	Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In such cases seek immediate medical assistance.
Ingestion	Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

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. If involved in fire material may emit toxic fumes.
Extinguishing media	Use dry chemical, foam or carbon dioxide.

SECTION 6: Accidental Release Measures

Spill and leak procedures	Small spills can be mixed with vermiculite or other suitable inert absorbents and placed in a suitable container. Ventilate area after material is removed.
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SECTION 7: Handling and Storage	
Handling	Avoid inhalation. Do not get in eyes, on skin or on clothing.
Storage	Store in a cool, dry place. Avoid contact with direct sunlight, ignition sources.
SECTION 8: Exposure Controls and Personal Protection	
Eye protection	Always wear approved safety glasses when handling a chemical substance in the laboratory.
Skin protection	Wear protective gloves.
Ventilation	Handling material in an efficient fume hood. Work with this substance in a well-ventilated area.
Respirator	Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.
SECTION 9: Physical and Chemical Properties	
Appearance	Yellow to orange pwdr.
Odor	None
Melting point	No data
Boiling point	No data
Flash point	No data
Solubility in water	Insoluble
Specific gravity	No data
Molecular formula	C ₂₂ H ₃₀ BrFeP
Molecular weight	461.20
SECTION 10: Stability and Reactivity	
Stability	Air and moisture stable solid.
Hazardous polymerization	No hazardous polymerization.
Conditions to avoid	Contact with strong oxidizing agents.
Incompatibilities with other materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon monoxide, carbon dioxide, hydrogen bromide, iron oxides, phosphorus pentoxides.
SECTION 11: Toxicological Information	
RTECS Data	No data available.
Carcinogenic effects	No data available.
Mutagenic effects	No data available.
Teratogenic effects	No data available.
SECTION 12: Ecological Information	
Ecological information	No information available.
SECTION 13: Disposal Considerations	
Dispose of in a manner consistent with federal, state, and local regulations.	

SECTION 14: Transport Information	
Shipping name (CFR)	Non-hazardous
Hazard class (CFR)	NA
Additional hazard class (CFR)	NA
Packing group (CFR)	NA
UN ID number (CFR)	NA
Shipping name (IATA)	Non-hazardous
Hazard class (IATA)	NA
Additional hazard class (IATA)	NA
Packing group (IATA)	NA
UN ID number (IATA)	NA
SECTION 15: Regulatory Information	
TSCA	Not listed in the TSCA inventory
SARA	Not reported.
SECTION 16: Other Information	
Preparation date	27.10.06
Revision date	27.10.06
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