

Material Safety Data Sheet. No: SD2178-R01

Issued 24-Jun-09

Section 1 : Chemical Identification

Catalogue No.:	2178-XXXX	Name:	iBu-G TC-CE Phosphoramidite
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Section 2 : Hazards Identification

Main Hazard	May be harmful by inhalation, ingestion or skin absorption. Potential hazards unknown, exercise due care.
Other Specific Hazards	N/A

Section 3 : Composition/information on Ingredients

Chemical Name	CAS No.	EINECS No.
5'-(4,4'-Dimethoxytrityl)-N-isobutyryl-guanosine, 2'-O-(1,1-dioxo1λ ⁶ -thiomorpholine-4-carbothioate)-3'-[(2-cyanoethyl)-(N,N-diisopropyl)]-phosphoramidite	N/A	N/A

Section 4 : First Aid Measures

Eyes	In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. OBTAIN MEDICAL ATTENTION
Skin	In case of contact, remove contaminated clothing, immediately wash skin with soap and copious amounts of water. OBTAIN MEDICAL ATTENTION
Ingestion	Induce vomiting and washout mouth with water provided the person is conscious. OBTAIN MEDICAL ATTENTION
Inhalation	Remove to fresh air. If not breathing give artificial respiration. OBTAIN MEDICAL ATTENTION.

Section 5 : Fire Fighting Measures

Extinguishing Media	Carbon dioxide, dry chemical powder or appropriate foam
Special Hazards of Product	N/A
Protective Equipment for Fire Fighting	Wear mask and protective clothing to prevent contact with skin and eyes.

Section 6 : Accidental Release Measures

Personal Protection	Wear protective clothing, respirator, chemical safety goggles, rubber gloves and rubber boots
Leaks and Spills	Clean the contaminated area thoroughly with a suitable solvent and absorbent material taking care to avoid breathing fumes. Dispose of all cleaning materials with care (see section 13)

Section 7 : Handling and Storage

Handling	Wear protective clothing, gloves and safety goggles. Use in a fume extraction cabinet. Avoid contact with eyes, skin and clothing. Avoid inhalation. Wash thoroughly after handling
Storage	Keep container Closed. Store in a freezer, protected from moisture, at -20°C

Section 8 : Exposure controls/Personal Protection

Exposure Controls	See Sections 7 and 8 above
Personal Protection	See Sections 7 and 8 above

Section 9 : Physical and Chemical Properties

Physical State	Colourless or off-white solid		
Melting Point	N/A	Boiling Point	N/A
Flash Point	N/A	Explosion Limits	N/A
Solubility (Water)	Insoluble	Solubility (Org. Solvents)	Soluble in Acetonitrile and dichloromethane
Chemical Formula	C ₄₉ H ₆₁ N ₈ O ₁₁ PS ₂	Molecular Weight	1033.16
Other Information	N/A		

Section 10 : Stability and Reactivity

Chemical Stability	Stable
Incompatibilities	Oxidising agents, reducing agents, bases, strong acids
Hazardous Decomposition or Combustion Products	Formation of toxic gasses is possible during heating or in case of fire
Hazardous Polymerisation	None

Section 11 : Toxicological Data

Toxic Effects	To the best of our knowledge the chemical, physical and toxicological properties of this substance have not been investigated. Handle with care to avoid all unnecessary exposure and release into the atmosphere.
Other Toxicological Data	N/A

Section 12 : Ecological Information

Data not yet available. In use, caution should be exercised to minimise release into the environment by using appropriate containment procedures

Section 13 : Disposal Information

Dispose by incineration at high temperature in an approved incinerator fitted with appropriate environmental protection equipment. Dispose of in accordance with all applicable Local, National, State and Federal regulations. Labels should not be removed from containers until they have been thoroughly cleaned in an appropriate manner. Containers should not be treated as domestic waste and disposed of appropriately. Always use an approved disposal company.

Section 14 : Transport Information

UN No.	N/A	UN Class	N/A	UN Packing Gp.	N/A
Road Freight	Non-hazardous for road freight				
Sea Freight	Non-hazardous for sea freight				
Air Freight	Non-hazardous for air freight				

Section 15 : Regulatory Information

European Information:

R Phrases	R20/22 Harmful. Harmful by inhalation and if swallowed
S Phrases	S36 - Wear suitable protective clothing

Section 16 : Other information

MSDS First Issued	May-09	MSDS Last Revision	Jun-09	MSDS Version	R01
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