

CAS No: 17804-35-2
 RTECS No: DD6475000
 EC No: 613-049-00-3

Methyl 1-(butylcarbamoyl)benzimidazol-2-ylcarbamate
 Carbamic acid, ((1-(butylamino)carbonyl)-1H-benzimidazol-2-yl), methyl ester
 $C_{14}H_{18}N_4O_3$
 Molecular mass: 290.4

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Liquid formulations containing organic solvents may be flammable.		Powder, alcohol-resistant foam, water spray, carbon dioxide.
EXPLOSION			
EXPOSURE		AVOID EXPOSURE OF (PREGNANT) WOMEN!	
Inhalation		Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
Skin	Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Eyes		Safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion		Do not eat, drink, or smoke during work. Wash hands before eating.	Rinse mouth. Refer for medical attention.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Do NOT wash away into sewer. Sweep spilled substance into containers. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment.	EU classification T Symbol N Symbol R: 46-60-61-37/38-43-50/53 S: 53-45-60-61 Do not transport with food and feedstuffs.

EMERGENCY RESPONSE	SAFE STORAGE
	Provision to contain effluent from fire extinguishing. Separated from food and feedstuffs. Dry. Well closed.

IMPORTANT DATA

Physical State; Appearance

WHITE CRYSTALLINE POWDER, WITH CHARACTERISTIC ODOUR.

Chemical dangers

The substance decomposes on heating producing toxic fumes including nitrogen oxides.

Occupational exposure limits

TLV: 10 mg/m³ as TWA; A4 (not classifiable as a human carcinogen); (ACGIH 2004).
MAK: sensitization of skin (Sh); Germ cell mutagen group: 3A (DFG 2005).

Routes of exposure

The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

Inhalation risk

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly on spraying or when dispersed, especially if powdered.

Effects of short-term exposure

The substance irritates the skin.

Effects of long-term or repeated exposure

Repeated or prolonged contact may cause skin sensitization. Animal tests show that this substance possibly causes toxic effects upon human reproduction. Animal tests show that this substance possibly causes malformations in human babies.

PHYSICAL PROPERTIES

Decomposes below melting point

Solubility in water: none

ENVIRONMENTAL DATA

The substance is very toxic to aquatic organisms. This substance does enter the environment under normal use. Great care, however, should be given to avoid any additional release, e.g. through inappropriate disposal.

NOTES

Card has been partly updated in October 2005 and August 2006: see sections Occupational Exposure Limits, EU classification.

ADDITIONAL INFORMATION

LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information