

beta-HEXACHLOROCYCLOHEXANE

0796

November 1998

CAS No: 319-85-7

RTECS No: GV4375000

EC No: 602-042-00-0

1-alpha,2-beta,3-alpha,4-beta,5-alpha,6-beta-Hexachlorocyclohexane

beta-1,2,3,4,5,6-Hexachlorocyclohexane

beta-Benzenehexachloride (beta-BHC)

$C_6H_6Cl_6$

Molecular mass: 290.8

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: all extinguishing agents allowed.
EXPLOSION			
EXPOSURE		PREVENT DISPERSION OF DUST! STRICT HYGIENE! AVOID EXPOSURE OF (PREGNANT) WOMEN!	
Inhalation	Cough. Sore throat. See Notes.	Local exhaust or breathing protection.	Fresh air, rest. Refer for medical attention.
Skin	MAY BE ABSORBED!	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.
Eyes		Safety goggles, or face shield.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	Diarrhoea. Dizziness. Headache. Nausea. Vomiting. Tremors.	Do not eat, drink, or smoke during work.	Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.

SPILLAGE DISPOSAL

Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment. (Extra personal protection: P2 filter respirator for harmful particles).

PACKAGING & LABELLING

EU classification
T Symbol
N Symbol
R: 21-25-40-50/53
S: (1/2)-22-36/37-4
Note: C5-60-61

EMERGENCY RESPONSE

SAFE STORAGE

Well closed. Store in an area without drain or sewer access.

IPCS

International
Programme on
Chemical Safety



Prepared in the context of cooperation between the International Programme on Chemical Safety and the European Commission ©
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SEE IMPORTANT INFORMATION ON THE BACK.

IMPORTANT DATA

Physical State; Appearance

CRYSTALLINE POWDER.

Chemical dangers

The substance decomposes in a fire, producing very toxic fumes including phosgene (see ICSC 0007) and hydrogen chloride (see ICSC 0163).

Occupational exposure limits

TLV not established.

MAK: (Inhalable fraction) 0.5 mg/m³; Peak limitation category: II(8); skin absorption (H); (DFG 2006).

Routes of exposure

The substance can be absorbed into the body by inhalation of its aerosol, through the skin or by ingestion.

Inhalation risk

Evaporation at 20/C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.

Effects of short-term exposure

The substance may cause effects on the central nervous system.

Effects of long-term or repeated exposure

The substance may have effects on the blood, liver, kidney. This substance is possibly carcinogenic to humans. Animal tests show that this substance possibly causes toxic effects upon human reproduction.

PHYSICAL PROPERTIES

Boiling point at 0,07 kPa: 60/C

Melting point: 309/C

Density: 1.9 g/cm³

Solubility in water: none

Vapour pressure, Pa at 20/C: 0.7

Octanol/water partition coefficient as log Pow: 3.8

ENVIRONMENTAL DATA

The substance is very toxic to aquatic organisms. In the food chain important to humans, bioaccumulation takes place, specifically in seafood. The substance may cause long-term effects in the aquatic environment. It is strongly advised that this substance does not enter the environment.

NOTES

This substance is a component of the insecticide hexachlorocyclohexane (isomer mixture).

Insufficient data are available on the effect of this substance on human health, therefore utmost care must be taken.

Do NOT take working clothes home.

Also consult ICSC # 0487 (Hexachlorocyclohexane).

Card has been partially updated in August 2007: see Storage, Occupational Exposure Limits, Environmental Data.

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