

# INTERCURE®1

## Hexamethylenediamine carbamate (HMDC)

INTERCURE®1, produced by IB Chem S.r.l. - INTERBUSINESS Group, is a blocked diamine cross-linking agent used in Fluoroelastomers (FKM), Polyacrylic (ACM), Ethylene-Acrylic (AEM) and Epichlorohydrin (ECO) elastomers. Depending on choice of elastomer, desired cure rate and physical properties can be obtained using levels ranging from 0.5 to 1.5 p.h.r.

INTERCURE®1, is needed when applications require F.D.A. approval.

INTERCURE®1, can also be used with additional accelerators to provide an optimum balance of properties in the above elastomers.

### PRODUCT DESCRIPTION

Formula	$C_7H_{16}N_2O_2$
CAS No. / EINECS No.	143-06-6 / 205-581-6
REACH - Registration No.	01-2120755360-60-0000
TSCA Inventory status	Listed Vol.2, pag.333, of 1979
Appearance	Fine white powder
Odor	Slight amine
Purity	99.5 % min.
Specific gravity at 25/4°C	1.28 ± 0.02
Decomposition point	154°C min.
Moisture	0.4 % max.
Ash content	0.05 % max.
Particle size:	
< 10 µm (%Volume)	85 min.
< 15 µm (%Volume)	95 min.
< 30 µm (%Volume)	100
Storage stability, unopened <sup>(1)</sup>	24 months min.
Solubility	Soluble in water, insoluble in alcohols

<sup>(1)</sup> Keep container tightly closed in a cool and dry place (23 °C and 50 % RH). After 24 months, retest before use.

**NOTE:** These data are presented to describe INTERCURE®1 and are not intended to serve as specifications.

### SAFETY AND HANDLING

Contact may cause skin or eye irritation. Inhalation, ingestion, skin and eye contact should be avoided. Gloves, safety goggles, respirator masks and protective clothing should be worn when handling the powder.

Local exhaust is recommended to remove dust. May form flammable dust-air mixtures. Avoid heat, sparks and open flames. Processing equipment should be well grounded.

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