

*Innovative Epoxy Curing Agent*

# Product Portfolio

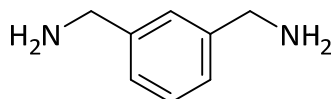
## MXDA & Derivatives



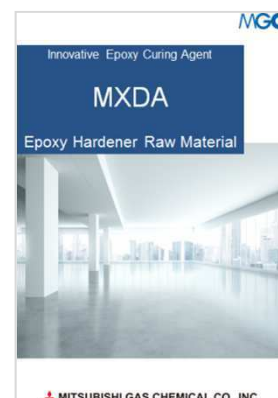
# What Properties Do You Require?

## Polyamine Raw Materials

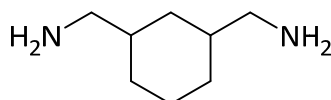
### MXDA



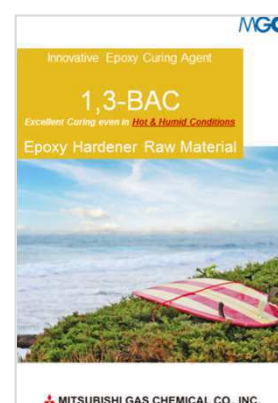
- **Chemical Resistance**
- Fast Curing even at Low Temperature
- Low AHEW = **Cost Saving** vs. IPDA



### 1,3-BAC



- **UV-Resistance**
- **Clarity**
- Low AHEW = **Cost Saving** vs. IPDA

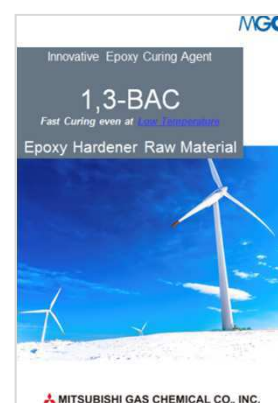


#### High Temperature Applications

Excellent Curing even at  
**High Temperature & Humidity**

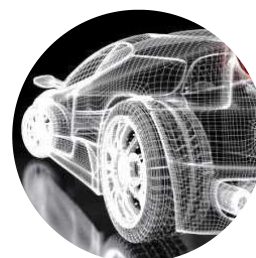
#### Low Temperature Applications

**Low Freezing point**  
Fast Curing even at **Low Temperature**



### Typical use of MXDA and 1,3-BAC

- *Mix with other Amines and additives*
- *Adduct: modified through chemical reaction with Epoxy*

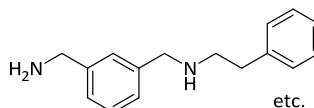


# What Properties Do You Require?

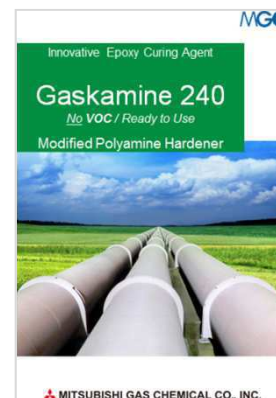
## Modified Polyamine Type Hardener

**Ready to use hardener derived from MXDA**

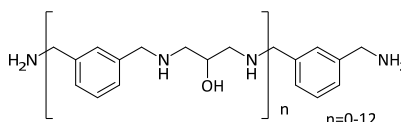
### G-240



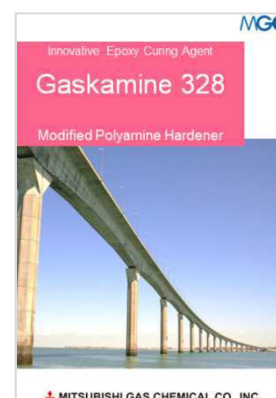
- Long Pot Life but Fast Cure
- **No VOC**
- No Blushing Excellent Chemical Resistance
- **Waterborne & Nonsolvent Based Grades**



### G-328



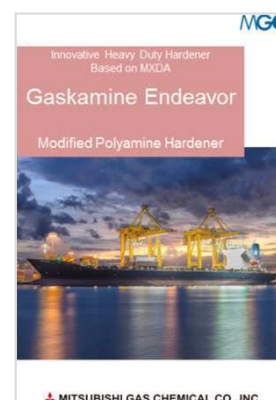
- Excellent Curing Performance
- **Wet Surface Adhesion**
- Accelerator
- **Waterborne & Nonsolvent Based Grades**



## Gaskamine Endeavor

Heavy Duty

- **Low Irritation (Phenol Free)**
- Chemical resistance
- Fast Cure



# Polyamines Raw Material

Product	MXDA CAS: 1477-55-0	1,3-BAC CAS: 2579-20-6
Chemical Structure		
Color (Gardner)	≤ 1	≤ 1
Viscosity / mPa·s, 25°C	6.8	9.1
Amine value / mgKOH g <sup>-1</sup>	824	789
AHEW	34	35.5
Phr / g (Added Weight in 100 g Epoxy Resin [EEW 186])	18.3	19.1

# Gaskamine: Modified Polyamine Type Hardener

Product	G-328 CAS: 135470-04-1	G-240 CAS: 404362-22-7	Gaskamine Endeavor
Chemical Structure			—
Color (Gardner)	≤ 5	< 1	< 1
Viscosity / mPa·s, 25°C	7,000-14,000	50-85	7,750 (NVM 60wt%)
Amine value / mgKOH g <sup>-1</sup>	650-680	390-415	327
AHEW	55	103	257
Phr / g (Added Weight in 100 g Epoxy Resin [EEW 186])	29.6	54	138

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