

Product Documentation

Product Name : **COSMONATE CG-145N**

Kumho Mitsui Chemicals Co.,

COSMONATE CG-145N

-Technical Data Sheet-

1. characteristics of product

COSMONATE CG-145N is a special modified MDI product popularly used in the field of integral skin foam (ISF), including table edges, chair armrests and steering wheels. Kept in liquid state at ambient temperature, the product is easy to store and handle at temperatures as low as 10°C. This solvent-free product has viscosity of up to 100 cps at 25°C.

2. product application



steering wheel



chair armrests

COSMONATE CG-145N is a special modified MDI product appropriate for use in the production of ISF products such as table edges, chair armrests and steering wheels. It offers excellent formability and mechanical strength for ISF products.

COSMONATE CG-145N

3. Product standards & general properties

Category	Assessment methods	Unit	Result
Product standards			
NCO content	ASTM D 1638	wt%	27.8 ~ 28.8
viscosity (25°C)	ASTM D 1638	cps	50 ~ 100
specific gravity(25°C)	ASTM D 1638	-	1.20 ~ 1.22
general properties			
product exterior			pale brown liquid
boiling point		°C	200 ~ 208
freezing point		°C	below -5°C
Vapor pressure (25°C)		mmHg	negligible
Flash point		°C	177 ~ 218
Molecular weight		g/mol	240 ~ 260
Chemical structure			
Over N=0,1,2,3,4			

COSMONATE CG-145N

4. product packaging

Cosmonate CG145N145N is packed in single 230kg drum

5. Safety and Health

Contact with the skin can cause inflammation including a rash, while contact with the eyes can cause severe pain, and visual disturbance may result in the event of excessive exposure. Inhalation of the vapor of MDI can cause bronchial asthma, headaches, or breathing difficulties, and its ingestion can cause irritation and inflammation of the gastrointestinal tract. In cases of contact with the skin, rinse the affected area completely with plenty of water or soapy water. In cases of contact with the eyes, rinse immediately with plenty of water or soapy water for 15 minutes, and seek professional medical help. In cases of MDI vapor inhalation, move the affected individual to a place where there is plenty of fresh air, keep him/her in a warm, stable condition, and perform artificial respiration if needed. In cases of ingestion, drink plenty of water, milk or raw eggs and seek medical help immediately. The risk of ignition is very low, but precautions should be taken to keep the product away from fire; in the event of a fire, extinguish with a carbon dioxide fire extinguisher. In the event of a large fire, extinguish with water.

6. Storage and Handling

The optimal storage temperature for CG-145N is 15~30°C. Caution is needed to prevent moisture from being mixed in the storage container, which should be sealed by dry nitrogen gas if possible. When working with MDI, proper safety equipment should be worn, and a ventilation or gas mask should be used if necessary. After work, wash completely with soapy water. Contaminated work clothes should be washed and cleaned for the next use.