MONOMERIC MDI

PRODUCT CHARACTERISTICS

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COSMONATE PH is highly purified monomeric MDI. It takes the form of white crystals at room temperature and appears as a clear, colorle ss liquid when melted. Monomeric MDI exists as a mixture of 3 isomers: 2,2-, 2,4-, and 4,4-MDI, with each monomer having two reactive i socyanate groups. MDI has particularly strong resistance to discoloration, and is applied as a stabilizer against high temperatures and ultraviole t light.

CHEMICAL STRUCTURE

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SPECIFICATIONS

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PRODUCT NAME	COSMONATE PH
Appearance	Transparent Liquid
Purity(Wt%)	Min. 99.8
Solidifying Point(°C)	Min. 38.5
Hydrolyzable Chlorine(Wt%)	Max. 0.002
APHA Color	Max. 20
Cyclohexane Insoluble(Wt	Max. 0.20

APPLICATIONS

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Spandex, Thermoplastic Polyurethane (TPU), Synthetic Leather, Shoe sole, Paints, Coating, Adhesives and Various Elastomers













TPU

Synthetic Leather

Sealant

Shoe Sole

Paint

KUMHO MITSUI CHEMICALS





Storage Period(day)

0 10 20 30 40 50 60 70 80 90 100

HANDLING AND STORAGE

Careful attention must be paid when handling this product after it has been held in storage, as it may spontaneously generate cyclohexane insoluble in quantities varying with storage ti me and temperature. It is therefore recommended that this product be used as soon afterdeli very as possible.

Generation of cyclohexane insoluble occurs most readily at temperatures slightly below the melting point of COSMONATE PH (30~38°C) and at temperatures above 50°C, and is reduced at temperatures slightly above the melting point (40~45°C), as well as at cold temperatures below 0° C (refer to Figures 1 and 2).

For reference, the recommended storage temperature and period for storing product quality in accordance with the warranty are as follows:

STORAGE TEMPERATURE	STORAGE PERIOD
40~45°C	14 days
O°C	3 months
	STORAGE TEMPERATURE 40~45°C O°C

Because COSMONATE PH is labile at temperature, its melting must be completed within a certain time after the onset of heating, as follows: Where the temperature at the core of the so lid does not exceed 60°C during melting, the melting time should not exceed 20 hours; Whe re the temperature at the core of the solid is 70°C, the melting time should not exceed 10 ho urs, and Where the temperature at the core of the solid is 80°C, the melting time should not. exceed 3 hours.

SAFETY AND HEALTH

Please refer to the Safety Information for Polymeric MDI.

PRODUCT PACKAGING

220 kg/drum, 15~20 ton/tank trailer

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