

# COSMONATE LL

## –Technical Data Sheet–

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### 1. Characteristics of Product

Cosmonate LL is made by turning part of Cosmonate PH, which is a crystal solid in room temperature, into carbodiimide. In room temperature, it stays as low-temperature liquid and is excellent in transparency especially when applied for special coating sectors. It is a light-yellow modified MDI developed to be handled and used conveniently.

### 2. Product Application



**Steering Wheel**



**Shoe Sole**



**Floor**

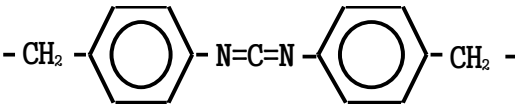


**Adhesive**

Cosmonate LL: Since some structure of product has harder imide bond than urethane bond, it has strong durability and inner hydrolysis, and uses small amount to improve property of matter since it has good mechanical intensity. Also, it is used to improve safety of final product in low temperature since it has superb effect on improving common nature of free NCO Group and polyol in manufacturing prepolymer. Cosmonate LL is widely used in many different field due to its effect explained above. And the field that cosmonate LL is used in are as followed: vehicle interior material such as steering wheel, air bag cover, water proof floor material to make prepolymer, shoes, in out sole field and adhesive.

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## 3. Product standards & general properties

Item	Evaluation Method	Unit	Result
Product Standards			
NCO Content	ASTM D 1638	wt%	28.5 ~ 29.5
Viscosity (25℃)	ASTM D 1638	cps	20 ~ 60
Specific Gravity(25℃)	ASTM D 1638	—	1.195 ~ 1.23
General Properties			
Product Exterior			Light Yellow Color Liquid
Boiling Point		℃	208
Freezing Point		℃	below 10
Evaporation Pressure (25℃)		mmHg	0.0003
Ignition Point		℃	210
Chemical Structure (Carbodiimide bond)			
			

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## 4. Product Packaging

Cosmonate LL uses 240kg drum package

## 5. Safety and Health

Skin contact might cause rash or inflammation and eye contact might cause severe pain and excessive exposure might cause sight disorder. Also, if you inhaled MDI steam, it would cause bronchial asthma, headache, difficulty to breathing, and etc, and in case of taken, it will cause stimulation and inflammation of digestive organs. If contacted with skin, wash out with much water or soapy water. If contacted with eyes, wash out with much water or soapy water for about 15 minutes and get medical examination. Also, if you inhaled MDI steam, move to the fresh area, keep warm stabilized, and practice artificial respiration when it's necessary. If swallowed, feed much water or milk, or raw egg and make them throw up, then get medical examination as soon as possible. It has very rare ignition danger, but watch out for fire hazard if digested, carbonic acid gas digestion is suitable. In case of conflagration, put out with water.

## 6. Storage and Handling

The proper storage temperature of Cosmonate LL is 20°C–35°C. Take extra precautions to prevent moisture from being mixed into the storage container. Seal the container with dry hydrogen gas if possible. When working with MDIU, it is required to wear proper safety gear and, if necessary, a ventilation system needs to be installed or a gas mask should be put on. After work, hands should be washed with soap and water, and the contaminated working garment must be washed before reuse.