



# The Andur Report



September 2018

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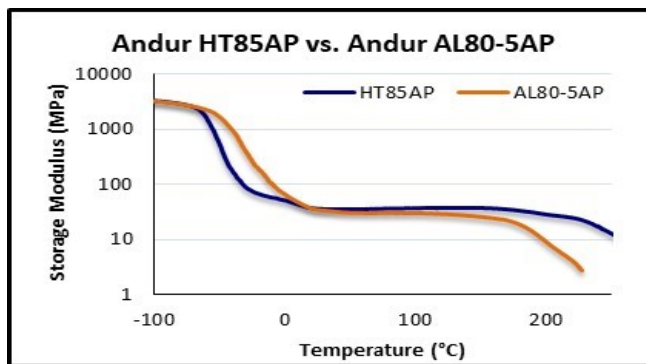
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## Anderson Development Company

### New High Temperature Products

The Andur HT 58 DP and Andur HT 75 DP systems have been ADC products for many years and have proven results in many applications with high temperature demands. Some higher temp. applications require lower hardness. ADC now has the solution for that. Introducing Andur HT 85 AP, Andur HT 90 AP, and Andur HT 93 AP. Like our other HT materials, each is a system composed of an ISO and a CURATIVE. Each elastomer retains its hardness (modulus) to a much higher degree than a standard urethane material or even an aliphatic based polyurethane. Pictured above is an



example of this with the HT 85 AP vs. Andur AL 80-5 AP. Andur HT curatives are custom blended and equivalent weights are provided to allow processors the flexibility to dial in these products to maximize desired properties for specific applications. A

stoichiometry of 0.98 is typical, although one could target a 0.93 stoichiometry for a boost in dynamic properties or target a 1.02 stoichiometry for a boost in tear strength and flex fatigue resistance. TDS, SDS, and samples are all available upon request.

### Revisions to California's Proposition 65

The California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) **amended regulations for "clear and reasonable" warnings** went into force on August 30<sup>th</sup> 2018. In 2016, the California Office of Environmental Health Hazard Assessment (OEHHA) imposed new consumer warning regulations that apply to any products **manufactured on or after August 30, 2018** giving businesses two years to prepare. The original warnings did not mention the specific chemical nor provide any other additional information. The new requirements include the name of the listed chemical and a website reference to obtain more information. Additionally a large yellow triangle with black exclamation point is now required to make the warning more noticeable.

A short version of the statements can be utilized for very small labels:

**WARNING: Cancer and Reproduc-**

**tive Harm** - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov). Since it came into force in 1986, Proposition 65 has required any company doing business in California to warn consumers about significant exposures to chemicals the state has identified as causing cancer, birth defects, or reproductive harm. The list includes over 900 substances and is updated annually. This regulation is applicable to components or products available to **consumers or exposed to workers in California** and require clear labelling if the product contains any listed substance that exceeds the safe harbor levels established by that office. These safe harbor levels include:

- No Significant Risk Levels (NSRLs) for cancer-causing chemicals
- Maximum Allowable Dose Levels (MADLs) for chemicals causing reproductive toxicity

A safe harbor level identifies a level of exposure to a listed chemi-

cal that does not require a Proposition 65 warning. A business does not need to provide a warning if exposure to a chemical occurs at or below these levels. The OEHHA has established more than 300 safe harbor levels, and continues to develop levels for listed chemicals. Safe Harbor Assessments can be utilized to assist in determining whether a listed chemical may be present in concentrations that meet the OEHHA established safe harbor levels. Information on established safe harbor levels, and the list of chemicals can be found at: <https://www.p65warnings.ca.gov/> Anderson Development Company has taken measures to identify and update the labels of all products manufactured on or after August 30, 2018, which require California Proposition 65 labelling. It is important that any company selling, supplying, or distributing products in California, evaluate what they should be doing to ensure compliance.



**WARNING:** This product can expose you to chemicals including naphthalene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Example of Revised Warning

## Soft Systems—TDS for 40A, 50A, and 60A Materials

Coming this fall, ADC will be releasing some new technical datasheets, but they won't be typical Andur product datasheets as these will be organized by hardness; specifically 40A, 50A, and 60A.

These new datasheets will showcase multiple systems using a variety of prepolymers and curatives to give processors a lot of options when they need a soft system in the range of 40-60A. Besides physical property data and recommended catalysts, the attributes and strengths of each system is listed, disadvantages or other comments, and FDA status. Some systems may contain a small amount of plasticizer as well.

To the right is a small snippet of what they will look like.

ANDERSON DEVELOPMENT COMPANY		50A Specialty Technical Data			
Polyurethane System					
Prepolymer	Andur® 8 APFLM	Andur® 8-5 APLS	Andur® 80 APLF	Andur® 80-5 AP	Andur® 85 APLF
Curative	Curene® 49	Curene® 49	Curene® 100XPF	Curene® 100XPF	Curene® 100XPF
Recommended Plasticizer	Andurflex 9-88SG	Andurflex 9-88SG			Andurflex 9-88SG
% Plasticizer	10%	5-10 %			10%
Stoichiometric Ratio			1.05		1.05
Recommended Catalyst	Refer to individual product datasheets				
Elastomer Properties					
Shore A Hardness	50	48-54	48-52A	48-52A	48-52A
Tensile Strength, psi	2740	2740	465	700	700
100% Modulus, psi	215	245	210	230	230
300% Modulus, psi	440	555	405	395	395
Elongation, %	455	440	335	500	590
Die C Tear (D624), pli	115	155	125	155	155
Split Tear (D1938), pli: AVG.	10	12	8	18	18
D395 Comp. Set, % (22 hrs @ 70C)	0	0	3	4	3
D2632 Rebound, %	53	34	72	62	66
ATTRIBUTES	Dry food contact approved; good solvent resistance	Dry food contact approved; good solvent resistance	Easy to process; fairly tough with good dynamics; good water and acid resistance	Fairly tough with good dynamics; good water and acid resistances	Fairly tough with good dynamics; good water and acid resistance
Disadvantages/ Comments	Resistance to base may be acceptable for some applications	After acid resistance; may be acceptable for some applications	Resistant to solvent and acid	Poor resistance to solvent and acid	Poor solvent and base resistance
FDA Approvable Composition	Yes; Dry <sup>**</sup>	Yes; Dry <sup>**</sup>			

\* Triethanolamine (TEA) \*\* Diethyl Adipate (DOA) \*\*\* Trimethylolpropane (TMP) \* % Plasticizer based on prepolymer weight  
This system is approvable for FDA applications involving \*wet food contact per 21 CFR 177.2600 & \*\*dry food contact per 21 CFR 177.1680  
CURENE, ANDUR and ANDURCAT are registered trademarks of Anderson Development Company. DABCO is a registered trademark of Evonik. Santicizer is a registered trademark of Ferro.  
The information contained in this bulletin we believe to be accurate, but no warranty is given nor is anything to be construed as a recommendation to infringe upon any existing patent. Since conditions of use are beyond our control, all risks of use are assumed by the user.

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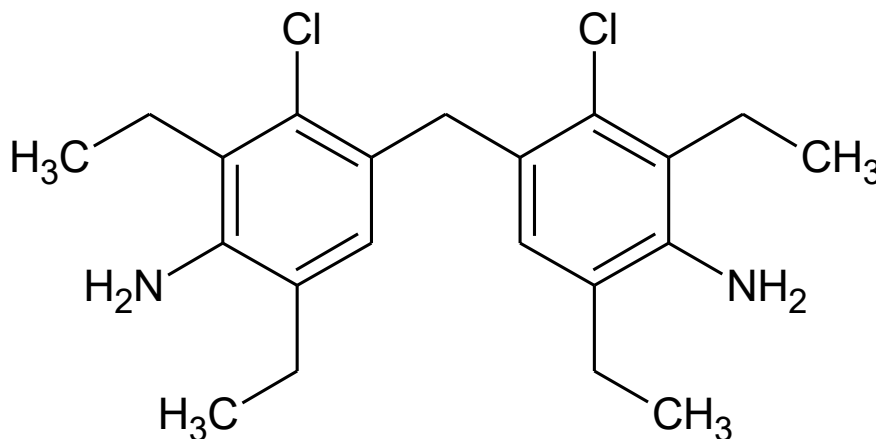
## New Product: Curene MCDEA

4,4'-Methylenebis(3-chloro-2,6-diethylaniline), commonly known as MCDEA is an aromatic diamine curative. It is typically used in very dynamic applications where low heat build is desired. It is similar to MBOCA (Curene 442) in that it is a solid material at room temperature and has a melting point just below MBOCA. One major difference with MBOCA is its processing characteristics. The potlife with MCDEA is much shorter than with MBOCA. Also, elastomer hardness tends to be higher than with MBOCA, especially for materials less than 60D. An elastomer that is 80A with

MBOCA, might be 85A-90A with MCDEA. A harder material of 70D with MBOCA will remain close to 70D with MCDEA. ADC will now be sell-

ing MCDEA as a part of our line of curatives. The official name will be Curene MCDEA and it will be available in fiber drums of 55# net.

Samples (1 quart to ~5#) are also available upon request.



## ADC Urethane Sales Team Changes

On June 18, 2018, Jerry Irmick joined Anderson Development Company (ADC) in Sales for the North American territories, specifically in the Mid-West, West Coast and Canada.

Not only does Jerry have a background in Sales and Marketing, but he possesses over twenty five years of urethane processing expertise as well. Before coming to ADC, Jerry managed a manufacturing plant where he dealt with strip extrusion and transfer, compression, and open cast molding. Jerry has also



worked in product development and review, giving him a knowledge of tooling and process design. In addition to these processes, Jerry also has experience with rubber, silicone and urethane.

Anderson Development Company looks forward to utilizing Jerry's unique combination of sales knowledge and chemical background to continue to offer solutions to customers throughout North America.

**Welcome, Jerry!**

## Richard Ingraham Retirement

After 46 years in the rubber and urethane industry, the last 20 years being with Anderson Development, Richard Ingraham has decided to retire. Richard was at Albion Industries for 26 years working with both rubber and urethane before coming to ADC in 1998. With all his processing knowledge from Albion, he became a great asset to the urethane sales team and will be greatly missed.



In his retirement, Richard plans on spending more time with his 10 grandchildren showing them how to hunt and fish as well as playing more golf. **Best Wishes, Richard!**

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### Mission Statement

Anderson Development will be a global supplier of innovative specialty chemical products, striving for continual improvement in all of our operations. It is our goal to be personal, efficient, and responsive to our customers and employees. We will provide a team-oriented atmosphere while allowing for individual diversity among our employees.

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