

1/2/69

NPI Extension - (NPI 673-3)

- 1 P. E. - Burlington
- 2 P. F. Albanese
- 3 M. G. Caine
- 4 H. B. Carr
- 5 E. Farber
- 6 J. C. Fisher
- 7 C. W. Johnston
- 8 R. W. Kulick (a) *1<sup>st</sup> pg. only*
- 9 E. Rad
- 10 R. D. Richards
- 11 G. I. Rozand
- 12 P. R. Scarito
- 13 C. G. Thompson
- 14 W. D. Wesely (b) *all but formulation*
- 15 M. W. Williams
- 16 R & D Log Book - Original File
- 17 Extra
- 18 Extra

COPY OF

C O N F I D E N T I A L

TENNECO PLASTICS DIVISION

TENNECO CHEMICALS, INC.

NEW PRODUCT INTRODUCTION - EXTENSION

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|                                          |                                      |
|------------------------------------------|--------------------------------------|
| Date: <u>December 31, 1968</u>           | NPI No.: <u>673-3</u>                |
| Approved by:                             | Plant: <u>Burlington</u>             |
| R & D: _____                             | Product Identification: <u>67300</u> |
| Marketing: _____                         | Formulation: <u>H-4520-3</u>         |
| Manufacturing: _____                     | Series No.: <u>998---</u>            |
| Requested by: <u>Process Engineering</u> | Issued by: <u>E. J. Hourihan</u>     |

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Objective:

Run one batch to provide latex samples for reproducibility studies. This resin is a 2.00 relative viscosity variation of 1755.

Product Disposition:

The one batch of latex would be blended off in routine production with 1755.

References:

1. Inter-office Memo, Subject: "Interim Report - LOP 648 Low Relative Viscosity (2.0) 1755 for Foam Application," to J. C. Fisher from E. J. Hourihan, dated March 14, 1968.
2. NPI Report for NPI 673, Low Relative Viscosity 1750, from E. J. Hourihan, dated May 9, 1968.

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NPI No.: 673-3

Technical Discussion:

The Pilot Plant will process two drums of latex sampled from this special batch. Evaluation of their dry resin will provide us with a measure of our process reproducibility and also contribute to our Pilot Plant/Production Plant correlation experience.

NEW PRODUCT INTRODUCTION -- EXTENSION

FORMULATION

PLASTISOLS

NPI No.: 673-3

Formulation No.: H-4520-3

Issued by: E. J. Hourihan

Product Identification: 67300

Date: December 31, 1968

Series No.: 998---

| <u>WEIGHT</u>  | <u>RAW MATERIAL</u>      | <u>CONDITIONS</u>                                    |
|----------------|--------------------------|------------------------------------------------------|
| <u>11,220</u>  | <u>D. M. Water</u>       | <u>Charge temp.: 70°F</u>                            |
|                | <u>100 Lbs.</u>          |                                                      |
| <u>350 Wet</u> | <u>Sipex SB (Active)</u> | <u>Mix temp.: 1 Hour</u>                             |
| <u>6</u>       | <u>Lauroyl Peroxide</u>  | <u>Orifice: Multi-Hole, 2 stages</u>                 |
| <u>10,400</u>  | <u>MVC</u>               | <u>Homog. press.: 200 psig <math>\Delta</math> P</u> |
|                |                          | <u>Reaction temp.: 147°F</u>                         |
|                |                          | <u>Recover at: _____</u>                             |
|                |                          | <u>Strip to: 18" Hg vacuum</u>                       |
|                |                          | <u>Antifoam: TBP Solution</u>                        |

Special Charging Procedures:

Same as formulation no. 4550 of AMP.

Special Instructions:

1. Call reaction complete when batch pressure drops 10 psig and/or jacket temperature shows an upward trend across one hour at least.
2. Batch mix tank to be set at 70°F.
3. No Tween 20 to be used when the latex is segregated for processing.
4. Add 50 lbs. of 10% buffer salt solution as each batch is dumped to astex blend tank.
5. When the batch transfers from the stripper take a 1/2 gallon sample in a plaid container.

NOTE: Temperature check the tower before charging.

NEW PRODUCT INTRODUCTION - EXTENSION

PRODUCT QUALITY TESTS

PLASTISOL RESINS

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|                         |                  |            |                          |
|-------------------------|------------------|------------|--------------------------|
| Product Identification: | <u>67300</u>     | NPI No.:   | <u>673-3</u>             |
| Formulation No.:        | <u>H-4520-3</u>  | Plant:     | <u>Burlington</u>        |
| Series No.:             | <u>998---</u>    | Issued by: | <u>E. J. Hourihan</u>    |
| Limitation:             | <u>One Batch</u> | Date:      | <u>December 31, 1968</u> |

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Q. C. LABORATORY TESTS

| <u>TEST</u>                             | <u>TARGET<br/>PROPERTY</u>  | <u>TEST</u>        | <u>TARGET<br/>PROPERTY</u>  |
|-----------------------------------------|-----------------------------|--------------------|-----------------------------|
| Relative Viscosity                      | <u>1.95-2.05</u>            | Clarity            | <u>                    </u> |
| Brookfield Viscosity<br>One Day, 20 rpm | <u>DAR</u>                  | Air Release        | <u>                    </u> |
| Severs Viscosity<br>Initial, 100 psi    | <u>DAR</u>                  | Heat Stability     | <u>                    </u> |
| Hegman Grain                            | <u>                    </u> | Volatiles          | <u>0.1% max.</u>            |
| Contamination                           | <u>30 max.</u>              | Methanol Extract   | <u>1% max.</u>              |
|                                         |                             | Plast. Wettability | <u>                    </u> |

Special Instructions:

1. Run filtration time, cake characteristics and relative viscosity on latex sample.

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SPECIAL TESTS

Special Instructions: