Monsanto

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Monsanto Triangle Park Development Center, Inc. P. O. Box 12274
Research Triangle Park, North Carolina 27709
Phone: (919) 549-8111

February 28, 1974

Professor G. Natta Istituto di Chimica Industriale del Poeitecnico Piazza Leonard da Vinci 32 Milano, Italy

Dear Professor Natta:

Chemstrand Research Center has changed its name effective March 1, 1974. We are now Monsanto Triangle Park Development Center, Inc. Details are in the enclosed press release. The name change will implement existing corporate identity policy and reflect more accurately the nature of the work carried out at Monsanto's wholly owned Research Triangle Park subsidiary.

You will also note that our mailing address has changed to take advantage of the postal facilities at Research Triangle Park. N. C.

The name change is a reflection of our present status, and we do not anticipate any change in the nature of our work at the Triangle Park facility or in any of our good relationships with our friends and neighbors.

Sincerely yours,

Herbert N. Friedlander

Vice President and

Director, Technical Operations

HNF: JBM Enclosure

Dr. James C. Woodbrey, Monsanto Company, Central Research Dept., St. Louis, Missouri (USA)

mar doctor Woodbrey:

Thank you very much for kindly sending me your chapter on NMR. I will read it with much interest.

Kindest regards,

Giulio Natta

Ju

Dr. James Woodbrey

Monsanto Co.

800 N. Lindbergh Boulevard
St. Louis, Missouri 63166 (U.S.A.)

our ref. 454/lmv

Dear doctor Woodbrey:

Thank you for your letter of Oct. 22, 1968.

I believe that very precise data may be obtained on the steric purity of isotactic polypropylene, using deuterated polymers, by deuterium decoupling and summing up thousands of spectra. However, direct and not equivocal experimental data already exist (Makromol Chemie 110, 1 (1967); Polymer Letters 6, 473 (1968)) to establish whether the hypotheses put forward by Flory to explain the average dimensions of the isotactic polymer chains in solution, are correct or not.

In my opinion, it is of less importance to precisely establish whether the syndiotactic diads that are present in a given polymer are less than 2% (Makromol Chemie 110, 1 (1967)), or less than 0.5% (Macromolecules 1, 93 (1968)), or even below.

I regret that I cannot send you a sample of isotactic poly-2,3,3,3-propylene d₄, since the samples I had at my disposal were used for other measurements.

Kindest regards,

Giulio Natta

Monsanto

Jany Parison

800 N. Lindbergh Boulevard St. Louis, Missouri 63166 (314) OXford 4-1000 October 22, 1968



Professor Giulio Natta
Istituto di Chimica Industriale
del Politeenico
Piazzo Leonardo da Vinci,
32-Milano

Dear Professor Natta:

I would like to perform some experiments which should yield definitive results about the values of steric purity of highly isotactic polypropylenes and their characteristic unperturbed dimensions in solution. The stimulus for doing such experiments is, of course, the discrepancy between (1) the many experimental results indicating very high steric purity for many isotactic polypropylenes and (2) the calculations of polypropylene unperturbed chain dimensions by Professor Flory and co-workers. I believe there is strong evidence that most highly isotactic polypropylenes are much more pure in steric isomerism than indicated by comparisons of Professor Flory's theoretical results with experimental values of chain dimensions. There appears to be a real need, however, for (1) direct experimental results which yield unequivocal definition of the very high stereochemical purity of specific samples of isotactic polypropylenes and (2) experimental results for the characteristic unperturbed dimensions of the identical polymers in solution.

If proper assessments for effects of thermal degradation in solution are made, the latter types of results can be attained by classical methods.

I believe direct and unequivocal definition of the very high steric purity of a highly isotactic polypropylene can be obtained from high-resolution proton magnetic resonance (PMR) experiments of the proper kind; i.e., from spectra of highly isotactic poly(2,3,3,3-propene-d4) obtained under conditions of "slow-passage" without saturation and under conditions

of very high signal-to-noise ratio (S/N of 30-50 times that normally achieved). Of course, the polymer would need to be made from monomer having very high isotopic purity. spectral conditions I've mentioned can be achieved easily in this laboratory; possibly they can in yours also. needs only to use deuterium - proton decoupling as Annalaura Segre has done and to accumulate a few thousand spectra with a computer of average transients. Symmetry of the resultant AB-type quartet due to heterosteric meso methylene protons of the isotactic placements, plus the intensities of resolvable lines due to racemic or syndiotactic methylene protons, should provide a very sensitive and unequivocal measure of minimum isotactic purity. Stereochemical impurities of syndiotactic placements or dyads in otherwise isotactic chains must yield characteristic and resolvable lines or contribute to asymmetry of the AB-type quartet.

I would appreciate very much your opinions regarding the problem I've outlined, and I would be deeply appreciative if you would loan me a sample of poly(2,3,3,3-propene- \underline{d}_4) of the type which appears appropriate for the proposed experiments.

Kindest regards,

James Woodbrey

Dr.James C Woodbrey, Monsanto Co. 800 N.Lindbergh Boulevard, St.Louis, Missouri 63166 (U.S.A.)

Dear doctor Woodbrey:

With regard to your request of Nov.15, I send you a copy of the paper on NMR we presented at the IUPAC Symposium on Macromolecular Chemistry, held in Prague: "NMR Analysis of Some Deuterated Polypropenes". I also send you the microfilm of the figures reported, since they are not clear in the preprint enclosed.

Kindest regards,

Giulio Natta



800 N. Lindbergh Boulevard St. Louis, Missouri 63166 (314) WYdown 3-1000

November 15, 1965

Professor Giulio Natta
Instituto di Chimica
Industriale del Politecnico di Milano
Centro Nazionale di Chimica
della Macromolecole, Sez. I,
Milan, Italy

Dear Professor Natta,

I am planning to write a chapter on NMR studies of stereoregulation in polymers for a forthcoming monograph on the general topic of stereoregulation. I would very much appreciate your sending me copies of your more recent papers on these topics and any related preprints you prepare in the near future.

mbardi

Sincerely.

James C. Woodbrey

JCW PM

Au

Dr. J.C. Woodbrey
Plastics Research Department
Mondanto Division
Springfield, Mass.

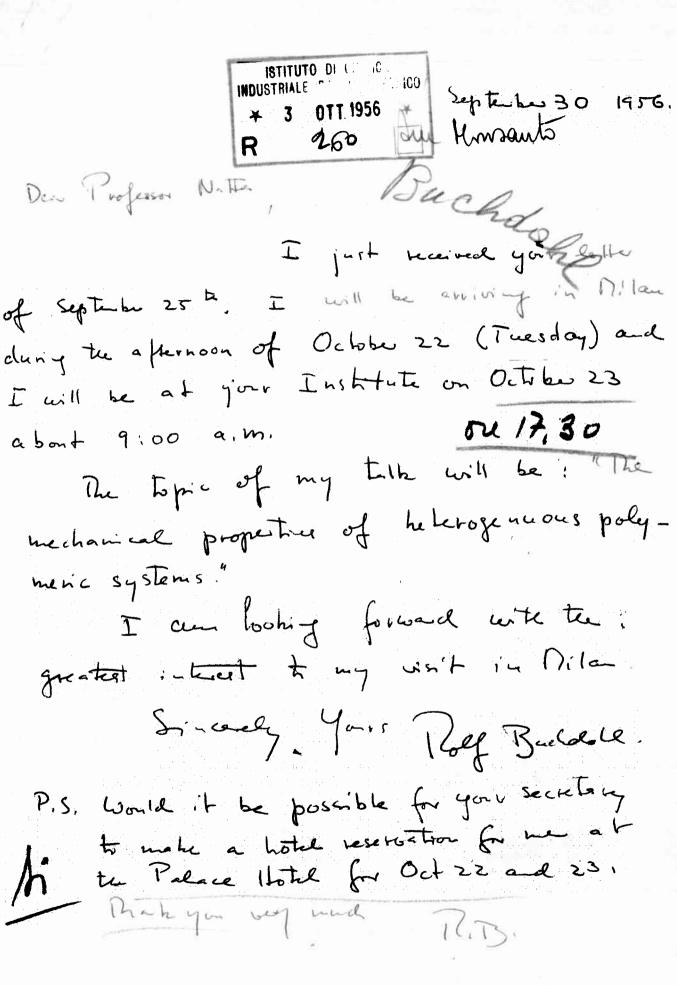
Dear Doctor Woodbrey:

Thank you very much for kindly sending me a copy of the paper you had previously submitted to publication.

On our turn, under separate cover, we send you a photostat of the galley proof of our paper, which will appear in the April issue of "La Chimica e l"Industria".

Kindest personal regards.

G. Natta



October 4, 1956

Au

Dr. Rolf BUGHDAHL c/o Kempinski Hotel B E R L I N - Germany

Dear Dr. Buchdahl,

I received your kind letter of September 30, and I am glad to confirm you that your lecture will be held on October 23 at 5h 30' p.m.

My secretary has already made a hotel reservation for you at the Palace Hotel for October 22 and 23.

Looking forward do seeing you, I send you my best regards.

Very sincerely yours,

Giulio Natta

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Nea telegrammi impressi a caratteri romani, il primo numero dopo il nome del luogo di origine rappresenta quello cel telegramma,
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PLAN TO BE IN WILAN OCTOBER 22 WILL CONFIRM BY TELEPHONE SEPTEMBER 25

= BUCHDAHL ++

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MONSANTO CHEMICAL COMPANY

ISTITUTO DI CHIMICA
INDUSTRIALE DEL POLITEDAIS

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PLASTICS DIVISION
SPRINGFIELD 2, MASSACHUSETTS

September 19, 1956

AIR MAIL

Dr. Giulio Natta Instituto Di Chimica Industriale Del Politecnoio Piazza Leonardo Da Vinci, 32 Milano, Italy

Dear Dr. Natta:

Since your letter arrived after Dr. Buchdahl left for Europe, I will try to answer your inquiry. According to Dr. Buchdahl's trip itinerary, he is scheduled to visit you on October 22nd.

If you should find it necessary to contact Dr. Buchdahl he can be reached by writing him c/o J. W. Barrett, Monsanto Chemicals Limited, Monsanto House, 10-18 Victoria Street, London S.W. 1, England before October 4th. From October 6 to October 9 you can write him at the Kempinski Hotel, Berlin, Germany.

Sincerely yours,

Edith T. Fuller

Secretary to Dr. Buchdahl

Am

Dr. Rolf BUCHDAHL c/o Mr. J.W. Barrett Monsanto Chemicals Ltd. Monsanto House 10-18, Victoria Street

LONDON, S.W. 1 - (England)

Dear Doctor Buchdahl,

as I told you by telephone, this morning, I received both your cable and the letter of your secretary, Mrs. E.T. Fuller.

According to your wish I could fix your lecture on October 23, in the afternoon. This lecture will be held at the Polytechnic Institute with the participation also of the members of the Milan Section of the "Società Chimica Italiana". Please, let me know at least ten days before the scheduled day, if you wish to do some change in your program.

Looking forward to seeing you in Milan, I am,

very sincerely yours

(G. Natta)

Monsanto Chemical Company

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PLASTICS DIVISION
SPRINGFIELD 2, MASSACHUSETTS

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September 6, 1956

AIR MAIL

Dr. Giulio Natta Instituto Di Chimica Industriale Del Politecncio Piazza Leonardo Da Vinci, 32 Milano, Italy

Dear Dr. Natta:

Thank you very much for your letter of August 30th. I am sorry to hear that you might not be at your institute after October 15, and I have given some thought to rearranging my schedule. However, this would involve so many rearrangements at this late date that this cannot be done any more.

I hope that you will still be there during the week of October 15, but if this is not possible, I am sure that some of your co-workers are perfectly capable of taking care of me. Incidentally, if you would like me to give a seminar talk on the mechanical properties of heterogeneous polymeric systems I would be very glad to oblige.

Best regards.

Sincerely yours,

Rolf Buchdahl

RB/etf

85

September 12, 1956

Mr.Rolf Buchdahl
MONSANTO CHEMICAL CO.
Plastics Division
SPRINCFIELD 2 - Massachussetts

Dear Mr. Buchdahl,

I received your kind letter of September 6, and I shall do my best to be in Milan when you arrive. I am very glad that you may give a seminar talk on the mechanical properties of heterogeneous polymeric systems at my Institute or at the Milan Section of the "Società Chimica Italiana". Please, let me know, as soon as possible, the exacte date of your coming so that I can arrange your seminar.

Awaiting your kind reply, I remain,

Very sincerely yours.

Ciulio Natta

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PLASTICS DIVISION SPRINGFIELD 2, MASSACHUSETTS

August 21, 1956

AIR MAIL

Dr. Giulio Natta Instituto Dr Chimicha Industriale Del Politecncio Piazza Leonardo DaVinci, 32 Milano, Italy

Dear Dr. Natta:

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Many of us here at Springfield have regretted that it was impossible for you to stop by our laboratories; possibly on another visit you might find the time to spend a day with us.

I will be in England to attend the discussions of the Faraday Society in September and subsequently will visit a number of laboratories and universities on the Continent. As you know, Dr. Nielsen and myself have for some years been working on mechanical properties of high polymers, and I would be interested in discussing certain problems of mutual interest with you, if you could find the time for it. It would not be possible for me to come to Milan until the second half of October, and I would like to suggest October 18 or 19 as possible dates, if this is agreeable with you.

I am sorry that it was not possible for me to talk to you a little more during the recent Gordon Conference, but maybe I will have this opportunity in the not too distant future.

Sincerely yours,

RB/etf

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August 30, 1956

Ju-

Mr.Rolf Buchdahl
Monsanto Chemical Company
Plastics Division
Springfield 2 - Massachussetts

Dear Mr. Buchdahl,

I received your kind letter of August 21 and I shall be glad to see you in Milan during your stay in Europe. I cannot assure you, till now, if I am in Milan on October 18 or 19, as after October 15 I shall be obliged to go to France. However, I shall do my best to be here during your visit and, if not possible, I shall charge some of my coworkers, working in the field of the mechanical properties of high polymers, to meet you here in our Institute.

With best regards.

Sincerely yours,

(iuli) datta

Dr. M. W. Mohrman, Director of Rese.

Monsanto Chemical Company

Plastics Division

SPRINGFIELD 2 - Massachussetts

Dear Mr. Mohrman,

rot to have been abke to visit you in Springfield.

By trip through the United States was so busy that'I had no time to come to Springfield not to write to you before my coming back to Milan. Furthermore, I have been obliged to come back before the foreseen date, owing to some problems in my Institute.

Hoping to have soon the opportunity to meet you, I send you my best wishes.

Silverety yours,

Giudio Princi

Monsanto Chemical Company

PLASTICS DIVISION
SPRINGFIELD 2, MASSACHUSETTS

June 12, 1956

Professor Giulio Natta c/o Chemore Corporation 21 West Street New York 6, New York

Dear Professor Natta:

Thanks very much for your letter of June 2. We are indeed very sorry that you will not be able to visit Springfield. Since Dr. Mark indicated earlier this year that you were planning a visit to this country, we had looked forward to the opportunity of meeting with you.

Mr. Trementozzi has told me that you may return later this summer to this country. If this is the case, we sincerely hope that you will find time on that occasion to spend a day with us.

Sincerely yours,

H. W. Mohrman

Director of Research

Hormolina

/jh

Monsanto Chemical Company

Plastics Division
Springfield 2, Massachusetts

August 20, 1956

Dr. Giulio Natta
Istituto Di Chimica Industriale
Del Politecnico
Piazza Leonardo Da Vinci, 32
Milano, Italy

Dear Dr. Natta:

Thanks very much for your letter of July 30th. We were indeed sorry that you did not have time to visit us in Springfield. Despite this, many of our men were able to meet and talk with you at the various scientific meetings this summer.

You will shortly hear from Dr. Rolf Buchdahl, who is planning a trip to Europe in September. If his schedule permits, he may be able to enjoy a brief visit at your Institute.

Sincerely yours,

H. W. Mohrman

/jh

Dr.H.W.Mohrman, Director of Research - Monsanto Chemical Co. Plastics Division Springfield 2 Massachussetts - U.S.A Au

Dear Mr. Mohrman,

Many thanks for your very kind letter of May 25?

and for your gracious invitation to visit you in Springfield on June 16, 17 and 18. Your paposal is very pleasant,
but I fear to be obliged to reduce my staying in the USA
and therefore, I must renounce a a part of the albeady sche
duled program.

Some time to prepare the lecture I shall present at the Gordon Conference on Righ Polymer, as I had no time before my starting, because of the tremendous work in my Institute.

Moreover, I foresee that in such a period Dr.Giustinia ni will be in the USA, and, therefore, I shall be very busy also with him. So, I regret very such not to be able to accept, till now, your kind invitation, but I shall write to you again, if might have some time to dedicate to your Company.

With kindest regards.

Very sincerely yours,

Ciulio Natta

During my stay in the U.S.A, you may address the eventual mail to me: o/o Chemère Corporation, 21 West Street, New York 6, H.Y.

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Monsanto Chemical Company

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ORGANIC CHEMICALS DIVISION 800 NORTH TWELFTH BOULEVARD ST. LOUIS 1, MISSOURI March 19, 1956

Professor G. Natta Istituto di Chimica Industriale del Politecnico Piazza Leonardo da Vinci, 32 Milano, Italia

Dear Professor Natta:

It is a pleasure to hear of your interest in our alkylated polyamine, Amine ODT. The technical bulletin covering this material is enclosed herewith.

At the request of Dr. D. S. Weddell we have entered an order for a one-pound sample to be forwarded to you at once. We hope that it is transmitted without delay.

Amine ODT is a developmental product with Monsanto; as such, it is currently available only in pilot plant quantities. However, it is hoped that regular manufacture may be established shortly.

Other products having more than two amino groups are not available at this time. However, certain research now in progress may lead to products of the desired structure. Your interest in such materials has been noted; we shall be happy to advise whenever any chemicals of this type become available.

Sincerely,

Norman J. (Lewis

DEVELOPMENT DEPARTMENT

NJL/km

Dr. C. A. Hochwalt Monsanto chemical Company 1700 So. 2nd Street St. Louis 4, Missouri

Dear Dr. Hochwalt,

I am in receipt of your letter of July 30. I thank you very much for your kind invitation and I'll attend your reception if I'll be able to be in New York on September 6. I'll be accompanied by my wife.

As I think to stay in U.S. at least two weeks after the end of the Congress, I shall be very pleased to be able to visit your Research Laboratories and eventually your plants, if this is possible. I am particularly interested in the field of plastics and olefin derivatives.

With many thanks and best regards, I am

Yours sincerely

ISTITUTO DI GHIMICA
INDUSTRIALE DEL POLITECHICO

2 7 GIU. 1958 *

Monsanto Chemical Company

PLASTICS DIVISION
SPRINGFIELD 2, MASSACHUSETTS

June 24, 1958

Professor Giulio Natta Instituto Di Chimica Industriale Del Politecncio Piazza Leonardo Da Vinci, 32 Milano, Italy

Dear Professor Natta:

I had the pleasure of listening to the talk you gave a few weeks ago in Brooklyn dealing with the kinetics of propylene polymerization. Unfortunately, I was not able to write down all the important equations which you discussed, and I would very much appreciate receiving a preprint of this paper if it is available.

I am enclosing a preprint of a paper which we gave at the San Francisco meeting, dealing with a subject that I think will be of interest to you.

Sincerely yours,

Buchdakl

Rolf Buchdahl

Assistant Director of Research

/jcb

Ju.

Dr. Rolf Buchdahl
Assistant Director of
Research
Monsanto Chem. Co.,
Springfield 2

Mass., U.S.A.

Our ref. : 781/mb

Dear Dr. Buchdahl,

Prof. Natta, who is actually in England, had charged us to thank you for your letter dated June 24th and to acknowledge the good receipt of the preprint of the work you presented at the American Chemical Society meeting in San Francisco last April.

As far as it concerns the talk given by Prof. Natta in Brooklyn, we are sorry not to be able to send you a copy of it as the manuscript of such talk is not available. However, such paper corresponds almost completely, to a lecture which is to be presented this month at the International High Polymer Conference in Nottingham.

WE do not know whether some people of your Company is attending the conference; in case nobody had gone and you were not able to get the preprints, please inform us about it so that we might, on Prof. Natta's return, let you have a photocopy of the work you are interested in.

Best regards,

Secretariat to Prof. Natta

fur

Dr. Jobert L. Miller,

[Monsanto Chemical So.
Plastics Division,

Springfield 2, Massachusetts (USA)

Dear Doctor Miller:

I send you, herewith enclosed, your letter of Dec.21, with my permission to use the material requested. Of course, in your book you have to quote the author and the original paper of each figure.

I also suggest you to request the same permission to the editorial board of Nuovo Cimento. Their address is:

Redazione del Nuovo Cimento, presso Istituto di Fisica, Università, Bologna (Italy) Via Irnerio 46

With my kindest regards.

G.Natta

Monsanto Chemical Company

PLASTICS DIVISION

SPRINGFIELD 2, MASS.

December 21, 1961

Professor G. Natta Istituto Chimica Industriale Politecnico del Milano Milano, Italy		5		American Section (Control of Control of Cont	,			
Dear Professor Natta:	} ~	orania de desarros de la composición dela composición dela composición dela composición dela composición de la composición de la composición de la composición dela composición de la composición de la composición de la composición del composición dela co						
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It is understood, of course, the publication.	at ful	il credit :	will be g	given to yo	ur			
Your consideration of this request will be greatly appreciated. A release form is given below for your convenience. The duplicate is for your files.								
		Ve	ery truly	yours,				
linh		Ro	bert L.	Miller				
[(we) hereby grant permission :	for th	e use of t	he mater	ial reques	ted above.			
Jan. 18. 1961								
ALCO .	Signed	4100 maring transport			***			
				Anthor	(**)****			

Dr. Alain Stein MONSANTO CHEMICAL CO. Plastics Division Indian Orchard, Mass.

Dear Sir.

According to your request of the following reprint: "Conformation of Linear Chains & their Mode of Packing in the Crystal State", J.Polymer Sci. 39, 29 (1959), we are sorry to inform you that we have no available copies.

With best regards.

Secretary to Prof.G.Natta

mo visitati da r chemicala, ibber chemica ri migliorati spilene. dr. David S.

i.to: Orsoni

MONTECATINI SETTORE PROMERTIOS, 22 LEuglio 1959.

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Preg. mo Sig.

Preg. me Signore Ing. Piero Giustiniani S e d e. eri Magazi

Monseanto,

Il 24 Settembre alle 09, 00 saremo visitati dal

dr. G. Steahly, research rubber chemicals, Mr. McIntyre, development, rubber chemicals,

che desiderano parlare dei muovi migliorati stabilissanti per polietilene e poliprepilane. Essi saranno accompagnati dal dr. David S. Weddell, rappresentante della Monsanto in Europa.

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MONTECATINI

Società Generale per l'industria Mineraria e Chimica

SETTORE IDROCARBURI

Data, 29.9.59

PROMEMORIA

per i

Sig. Prof. Natta

- i 011 !359

R 1057

Le inviamo in allegato un breve appunto sull'incontro tra i tècnici della Montecatini e i tecni ci della Monsanto.

Cordiali saluti.

Servizio Ricerche

All/o

RETURNS THAT I THERETO DELLA MENTENCATERI II I THOREGE THELA MENTANTO,

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per la Messente s

Mig. Thilip H. McEntyre Manager, Rubber Chantonis Section

Big. Compo V. Steakly Assistant Rivector Research Organic Chemicals Rivinian

Hig. Navid S. Weddell Homepoon Sectorical Representative

per la Mentecutini i l'ag. Murtelence Gracui

Ing. Fernando Inmerdo

Dr. Courado Manuelini EMED

1/2ng. Craemi delinea brovamente la situazione che si prospetta per l'imdustria della genna sintetica con l'ervente dei zmeri elestemeni al cui priluppo d'impognata la Nontecatini, in particolare di polibutatione 1₁4--cis e i copolimeni etileno-propilano.

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Personnie a parlame degli anticonsidenti, i signari della Monomite chicione se gli anticonsidenti adatti per policitimo e polipropilane siamo de considerami adatti anche per il capelinene etilene-propilane. Viano lero si specto che ciò è sanafaltre probabile, per questo il problema della stali, limpadane del C 23 mes sia, per eve, determinente,per i faturi impleghi di tale gente.

Si pares a disentere i sistemi di peres degli stabilizzanti. L'inventione munte semilare dei pelistica etabilizzanti (in perticolore di pelistica e pelipropilare) viene semprito mattente il controllo delle propoletti mag emissione simene sempre il dette più indicative a sespe protico.
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benile, rungene aggelte seltunte a mespe di atulio,

Paragulo al altro argumento, i termica della Monnento consigliamo di prova po il loro MADTOPAR per il 6 il anche valcanimento con percentale. L'MADTE PAR ve introdotto nella mescola insiene cen la carica rinformento, e la mescola dev'ennere leverata fino a completa dispersione della carica. Neg consivemente viene introdotto l'agente valcanimento. L'effetto dell'Mid-STOPAR capebbe di premovere un legene malto più efficace tra l'alestenero e la carica rinformanto. El ancienza che vermuno conquito prove in tale senso.

Viene fatta, da parte del rappresentanti la Monacato, una interrognalene di conforma all'informazione da loro aruta accombe cui la Montecutini pug decrebbe copoliment di progrime-acctilene, L'Ing. Oromi rispende che la Montecutini ha i brovetti fundamentali di questi capelimeni, na che, per monacana di tempo, nen no è stato condetto aranti lo cviluppo.

I tecnici dalla Monanto chiotono amoura alcune informazioni sulla Sabing canione di acrilatti, motacrilatti e malanima, l'Ing. Ordeni accuma brovemente alle difficoltà tecnologiche che si fraggangone alla realizzazione industriale dalla sintest della malanima a partire da uma e commica che la Montecatini mottoni in marcia, nei prini medi del premime anno, un impiante per la produzione di molanima da urosa.

L'Ing. Grand ammunia infine che la filma di polipropilane della Montg estini sta per essure lanciata sui nevento. I signosi della Montecettui.