"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

ACCESSION NR: AP4039763 S/0065/64/000/006/0024/0028

AUTHOR: Karzhev, V. I.; Sil'chenko, Ye. I.; Goncharova, N. V.; Svirina, V. P.; Lebedeva, A. M.

TITLE: Separation of aromatic hydrocarbons by means of complexes

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 6, 1964, 24-28

TOPIC TAGS: xylene, p-xylene, m-xylene, antimony(III) chloride, p-xylene separation

ABSTRACT: A study has been made of the separation of p-xylene by means of complex formation with $SbCl_3$ from a mixture of C_8 aromatic hydrocarbons produced in the aromatization of gasoline fractions. The principal purpose was to determine the maximum percentage recovery of p-xylene obtainable. The purity of the isolated p-xylene was also studied. Xylenes, synthetic mixtures of pure p- and m-xylene, and the 136—140C xylene fraction produced at the Novokuybyshevkiy Refinery were used. $SbCl_3$ was dissolved in the

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ACCESSION NR: AP4039763

hydrocarbon mixture at 60—70C. The solution was cooled to a predetermined temperature, and a $SbCl_3 \cdot C_6H_4(CH_3)_2$ crystal seed (mp, 56C) was added. After standing for one hour, the precipitated crystalline complex was filtered off and thermally decomposed at 136—144C.. The hydrocarbons were isolated by distillation. Optimum conditions for various stated initial compositions are given in tables. It was concluded that separation of highly concentrated p-xylene is best conducted in a continuous equipment in two or three stages, depending on the starting-material composition, the complex being decomposed between the stages. In this case, 94—96% p-xylene is produced after the last stage. The $SbCl_3$ can be repeatedly regenerated. The mother liquor can be returned to the first stage and m-xylene can be separated from it by complex formation with $SbCl_3$ under different conditions. This research was done at the All-Union Scientific Research Institute of the Petroleum Industry. Orig. art. has: 5 tables and 1 figure.

Card 2/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

ACCESSION NR: AP4039763

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 24Jun64 ENCL: 00

SUB CODE: GC NO REF SOV: 003 OTHER: 003

Card 3/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

KARZHEV, V.I.; SIL'CHENKO, Ye.I.; ROBOZHEVA, Ye.V.; LEBEDEVA, A.M.

Transformations of high-boiling paraffin hydrocarbons under the conditions of hydrocracking. Khim. i tekh.topl. i masel 10 no.11:4-9 N '65. (MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, A.N.

Significance of bacteriological examinations of cadaveric material. Arkh.pat.17 no.1:82-83 Ja-Mr '55. (MLRA 8:10)

1. Iz laboratorii i patologoanatomicheskogo otdeleniya bol'nitsy imeni Medsantrud.
(CADAVERS, bacteriology)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

Source : [illegible] B-25
Category :

Abs. Jour. : 47725

Author : Bomar, M.; Lebedeva, A. N.
Institut. :
Title : Penetration of Micro-Organisms Through Paper

Orig Pub. : Obaly, 1953, 4, No 2, 61

Abstract : Presentation of the results of studies of the permeability to [illegible] of paper and cardboard used in [illegible].

[illegible]:

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

SOV/20-123-5-21/50

3(9)

AUTHORS: Kriss, A. Ye., Biryuzova, V. I., Lebedeva, A. N.

TITLE: A Morphological Description of the Microbe Population of the Seas and Oceans (Morfologicheskaya kharakteristika mikrobnogo naseleniya morey i okeanov)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 5, pp 845-848 (USSR)

ABSTRACT: The present paper systematically classifies observations made concerning the morphology of microorganisms detected in various depths of the Black Sea, the Caspian Sea, the northwestern part of the Pacific, and the North Pole region. Each of these investigated regions is located at a sufficient distance from the next shore. A table gives the depth distribution of coccoid, rod-shaped, thread-shaped species and also of species of unusual shapes in the above-mentioned seas and oceans. Some of the microorganisms of unusual morphology are shown in a figure. Some of these microorganisms live only in relatively small regions of the sea. The microbic cells of unusual morphology(with the exception of the fragmentating threads) do not grow under laboratory conditions. The detection of microbes of unusual morphology is very interesting.

Card 1/2

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

SOV/20-123-5-21/50

A Morphological Description of the Microbe Population of the Seas and Oceans

for microbiology and for the purpose of investigating and indicating the presence of Oceanic Currents. There are 1 figure, 1 table, and 10 Soviet references.

ASSOCIATION: Institut mikrobiologii Akademii nauk SSSR (Institute of Microbiology of the Academy of Sciences, USSR)

PRESENTED: May 26, 1958, by A. I. Oparin, Academician

SUBMITTED: May 26, 1958

Card 2/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, A.N.

LEBEDEVA, A.N., doktor meditsinskikh nauk

Precancerous diseases of the ovaries. Trudy AMN SSSR 21 no.4:71-78 '52. (MIRA 10:8)

1. Iz onkologicheskoy kliniki (zav. - prof. L.M.Ratner) Sverdlovskogo nauchno-issledovatel'skogo instituta fizicheskikh metodov lecheniya.

(OVARIES, neoplasms, precancer)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, A.N.

LEBEDEVA, A.N.; GLUZMAN, V.S.

Remote results of radiologic and opera tive therapies of uterine cancer. Trudy AMN SSSR 21 no.4:81-86'52. (MLRA 10:8)

1. Iz onkologicheskoy kliniki Sverdlovskogo nauchno-issledovatel'-skogo instituta fizicheskikh metodov lecheniya (zav. - prof. L.M. Ratner, dir. - kand.med. nauk Ye.I.Milyutina)

(UTERUS, neoplasms,
radiother. & surg., results)
(RADIOTHERAPY, in various diseases,
cancer of uterus)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

ARKHANGEL'SKAYA, I.A.; LEBEDEVA, A.N., doktor meditsinskikh nauk, zaveduyushchiy statsionarom.

Pyometra as complication of uterine concer. Akush. i gin. no.3:81-82 My-Je '53. (MLRA 6:7)

1. Ginekologicheskoye otdeleniye Sverdlovskogo oblastnogo onkologicheskogo dispansera. (Uterus--Cancer)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, A.N., doktor meditsinskikh nauk.

Immediate and remote results of surgery and radiotherapy of tumors of the ovaries. Akush.i gin. no.2:42-46 Mr-Ap '54. (MLRA 7:6)

1. Iz Sverdlovskogo oblastnogo onkologicheskogo dispansera (glavnyy vrach F.M.Teploukhova). (Ovaries--Tumors) (Radiotherapy)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, A.N.

Treatment of papillary cystoma. Akush. i gin. no.4:76-78 Jl-Ag '55. (MLRA 8:11)

1. Iz Sverdlovskogo oblastnogo onkologicheskogo dispansera (glavnyy vrach F.M.Teploukhova)

(UTERUS, cysts
surg.,& ther.)
(ADNEXA UTERI, cysts
surg. & ther.)
(CYSTS
uterus & adnexa, surg. & ther.)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

AID P - 2182

Subject : USSR/Medicine

Card 1/1 Pub. 37 - 2/19

Author : Lebedeva, A. P., Kand. of Biol. Sci.

Title : The essential problem of the sanitary chemistry of the soil

Periodical : Gig. i san., 5, 8-14, My 1955

Abstract : The point at issue here is the article by N. I. Khlebnikov, in this journal, 1951, no. 4. The author discusses critically Khlebnikov's and various other Soviet methods of chemical separation of organic impurities and refuse from the organic humus substance of the soil, and considers then all unreliable. The most important problem from the sanitary point of view - according to the author - is to find out a safe method of purifying the organic humus from organic decay stuff and rot in the soil. Tables, 22 Russian refs. (1929-1952).

Institution : Ukrainian Institute of Municipal Hygiene

Submitted : S 29, 1954

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, A.P., kand.biol.nauk

Some problems of refuse collection and disinfection from data of foreign literature. Gig. i san. 23 no.2:59-66 F '58. (MIRA 11:4)

1. Iz Ukrainskogo instituta kommunal'noy gigiyeny.
(SANITATION
refuse collection & disinfect., problems (Rus))

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, A.P.; TOLSTOSHEY, O.N.

Contamination of soil with hexachloran from its use in agriculture. Gig. i san. 26 no.11:15-18 N '61. (MIRA 14:11)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta kommunal'noy gigiyeny.
(CYCLOHEXANE) (SOIL POLLUTION)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, A.P.; MITYAGINA, Z.M.; STARIKOVA, Yu.P.

Study of the anatomical and morphological structure of the underground system of the meadow geranium and the production of new pharmaceutical preparations from it. Trudy Perm. farm. inst. no.1: 74-80 '59. (MIRA 15:1)

1. Permskiy farmatsevticheskiy institut, kafedra tekhnologii lekarstv i kurs botaniki.

(GERANIUMS)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, A. P.; OSIPKOVA, T. A.

Pneumomediastinography in tumors of the mediastinum in children. Grud. khir. 4 no.3:80-84 My-Je '62. (MIRA 15:7)

1. Iz kafedry khirurgii detskogo vozrasta (zav. - doktor meditsinskikh nauk G. A. Bairov) i kafedry rentgenologii i radiologii (zav. - prof. Ya. L. Shik) Leningradskogo pediatricheskogo meditsinskogo instituta (rektor Ye. P. Semenova)

(MEDIASTINUM--TUMORS) (PNEUMOMEDIASTINUM)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, A. P. (Leningrad V-34, Vasil'yevskiy ostrov, Bol'shoy prosp., d. 8/4, kv. 40)

Benign tumor of the lung in a 2-year-old child. Grud. khir. 4 no.3:92-93 My-Je '62. (MIRA 15:7)

1. Iz kafedry khirurgii detskogo vozrasta (zav. - doktor meditsinskikh nauk G. A. Bairov) Leningradskogo pediatricheskogo meditsinskogo instituta (rektor Ye. P. Semenova)

(LUNGS—TUMORS)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, A.P.; OSIPKOVA, T.A.

X-ray diagnosis of mediastinal tumors in children using gas as a contrast medium. Vest. khir. no. 6:119-125 '65. (MIRA 18:12)

1. Iz kafedry khirurgii detskogo vozrasta (zav. - chlen-korrespondent AMN SSSR prof. G.A. Bairov) i rentgenologii (zav. - prof. Ya. L. Shik) Leningradskogo pediatricheskogo meditsinskogo instituta.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, A.S.; LIKHOSHERSTOV, A.M.; SKOLDINOV, A.P.

Derivatives of azacycloalkanes. Part 1: N-substituted α-pyrrolidinecarboxylic acids and their esters. Zhur. ob. khim. 34 no.11:3806-3809 N '64 (MIRA 18:1)

1. Institut farmakologii i khimioterapii AMN SSSR.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, A.S.; LIKHOSHERSTOV, A.M.; SKOLDINOV, A.P.

Derivatives of azacycloalkanes, Part 2: Dialkylaminoalkyl esters of N-substituted α-pyrrolidinecarboxylic acids. Zhur. ob. khim. 34 no.11:3809-3811 N '64 (MIRA 18:1)

1. Institut farmakologii i khimioterapii AMN SSSR.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

KORSHAK, V.V.; VINOGRADOVA, S.V.; LEBEDEVA, A.S.

Heterochain polyesters. Part 26: Study of some laws governing polyesterification at the interface. Vysokom.soed. 2 no.1: 61-66 Ja '60. (MIRA 13:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
(Esterification) (Polymerization)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

KORSHAK, V.V.; VINOGRADOVA, S.V.; LEBEDEVA, A.S.

Heterocyclic polyesters. Part 27: Some correlations in the polyesterification taking place at the boundary between two phases. Vysokom.soed. 2 no.7:977-983 Jl '60. (MIRA 13:8)
(Esterification) (Polymerization)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

KORSHAK, V.V.; VINOGRADOVA, S.V.; LEBEDEVA, A.S.

Heterochain polyesters. Part 28: Investigation of some correlations in interfacial polyesterification. Vysokom. soed. 2 no.8:1162-1166 Ag '60. (MIRA 13:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
(Polymerization)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

KORSHAK, V.V.; FRUNZE, T.M.; VINOGRADOVA, S.V.; KURASHEV, V.V.; LEBEDEVA, A.S.

Heterochain polyamides. Part 29: Significance of the hydrolysis of dichlorides of dicarboxylic acids during interphase polycondensation. Vysokom.soed. 3 no.3:371-375 Mr '61. (MIRA 14:6)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
(Polyamides) (Condensation products (Chemistry))

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

KORSHAK, V.V.; VINOGRADOVA, S.V.; FRUNZE, T.M.; LEBEDEVA, A.S.; KURASHEV, V.V.

Heterochain polyesters. Part 31: Role played by the hydrolysis of aromatic dicarboxylic acid chlorides in the process of interfacial polycondensation. Vysokom.soed. 3 no.7:984-990 Jl '61. (MIRA 14:6)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
(Hydrolysis) (Isophthaloyl chloride)
(Terephthaloyl chloride) (Polymerization)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

S/190/61/003/007/020/021
B101/B230

53830

AUTHORS: Korshak, V. V., Vinogradova, S. V., Lebedeva, A. S.

TITLE: New method of synthesizing grafted and block copolymers

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 3, no. 7, 1961, 1117

TEXT: In this letter authors report to the editor that they found a possibility of applying the method of interfacial polycondensation to the synthesis of grafted and block copolymers. Synthesis of grafted and block copolymers may be conducted in various alternatives of this method. Thus, copolymers may be obtained on the basis of the reactions: (see below). In particular, authors obtained grafted copolymers on the basis of phenol formaldehyde resin and polyarylates from dian and isophthalic or sebacic acids. The grafted copolymer obtained on the basis of phenol formaldehyde resin, chloride of isophthalic acid and dian at a molar ratio of 0.2 : 1.1 : 1 (as well as 2.2 moles of alkali) was a crystalline substance of a low degree of orderliness, with softening point 170 - 292°C capable to form a solid film out of the molten material. Tensile strength of the non-oriented film of this polymer amounted to 660 kg/cm^2

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with a relative breaking elongation of 12 %. Properties of grafted copolymers obtained by interfacial polycondensation may be varied within a wide range by changing the ratio and chemical character of the initial substances. [Abstracter's note: Complete translation.]

SUBMITTED: January 3, 1961

$$1.\ [-R(OH)-]_n + ClOC[-R'-]_mCOCl + NaOH \rightarrow$$
$$\rightarrow [-R-(OOC[R']_mCOCl)]_y[R(OH)]_x + NaCl,\ x+y=n;$$

$$2.\ HO[-R-]_nOH + [-R'(COCl)-]_m + NaOH \rightarrow$$
$$\rightarrow [-R'(COO[R]_nOH)]_x - [R'(COCl)-]_y + NaCl,\ x+y=m;$$

$$3.\ [-R(OH)-]_n + HOR'OH + ClOCR''COCl + NaOH \rightarrow$$
$$\rightarrow [-R(OOCR''COOR'O-)_q]_x - [R(OH)]_y + NaCl,\ x+y=n;$$

$$4.\ [-R(OH)-]_n + [-R'(COCl)-]_m + NaOH \rightarrow [-R(OOCR')_m]_x[R(OH)]_y +$$
$$+ NaCl,\ x+y=n;$$

$$5.\ ClOC[-R-]_mCOCl + HOR'OH + ClOC[-R''-]_nCOCl + NaOH \rightarrow NaCl +$$
$$+ [-OC[-R-]_mCOOR'OOC[-R''-]_nCOR'O-]_x.$$

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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

KOCHETKOV, N.K.; LIKHOSHERSTOV, A.M.; LEBEDEVA, A.S.

Pyrrolizidine alkaloids. Part 2. Stereospecific synthesis of d, l-isoretronecanol. Zhur.ob.khim. 31 no.10:3461-3469 O '61. (MIRA 14:10)

1. Institut farmakologii i khimioterapii Akademii meditsinskikh nauk SSSR.

(Isoretronecanol)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, A.S.

158112

S/191/62/000/001/002/006
B145/B110

AUTHORS: Korshak, V. V., Akutin, M. S., Vinogradova, S. V., Rodiviilova, L. A., Valetskiy, P. M., Lebedeva, A. S., Salazkin, S. N.

TITLE: Polyarylates - new thermostable polymers

PERIODICAL: Plasticheskiye massy, no. 1, 1962, 9-13

TEXT: A survey of the properties of polyarylates is given. They are best synthetized from bifunctional phenols and dicarboxylic acid chlorides. Some of the synthetized polyarylates and their softening temperatures are given in Table 1. The great number of rings in the polymer ensure high resistance to most organic solvents as well as to gasolines and oils. At room temperature, the polyarylate ИД (ID) is stable against H_2O_2, dilute and concentrated caustic soda solutions, acetic acid, formic acid, nitric acid, and sulfuric acid. The effect of dilute and concentrated ammonia solutions considerably reduces the molecular weight of ID. Polyarylates on the basis of phenolphthalein are readily soluble in a number of solvents, which facilitates the production of foils. At the NIIPM it was

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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

established that the polyarylates TA(TD) and ID withstand high temperatures. Decomposition increases with rising temperature, at first slowly and then sharply at about 400°C. The oxidation of ID sets in at 250°C and proceeds slowly. Measurement of breakdown voltage, temperature dependence of tan δ, dielectric constant, and volume resistivity for some polyarylates prove that they are better dielectrics than polyethylene terephthalate, polycarbonate, etc. Polyarylates have good mechanical properties at various temperatures. Working processes are being elaborated at present. Specimens of mixed polyarylates were obtained by pressure casting, the tensile strength of which reached 850 kp/cm^2. Specimens sprayed on metal showed an adhesion to metal of 75 to 150 kp/cm^2. Work is also in progress on polyarylates with double bonds and free functional groups. They might be used as a basic material for the production of varnishes, glues, glass-reinforced plastics, and foam plastics. There are 5 figures, 6 tables, and 5 Soviet references.

Table 1. Softening temperature of polyarylates of different structures. Legend: (1) polyarylate; (2) structure of the chain link; (3) softening temperature in °C; (4) TD; (5) ID; (6) TG; (7) IG; (8) TR; (9) IR; (10) TF; (11) IF; (12)-(14) ITD; (15) IDR; (16) TDR; (17) IFD; (18) IAD; * the

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

Polyarylates - [illegible]

molecular ratio of the initial dicarboxylic acid chlorides related to 1 mole of diol is given in parentheses; [illegible] the molecular ratio of the initial diols related to 1 mole of dicarboxylic acid chloride is given in parentheses.

Card 3/5

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

KORSHAK, V.V.; VINOGRADOVA, S.V.; LEBEDEVA, A.S.; Prinimala uchastiye: RESHETNIKOVA, L.L., laborant

Heterochain polyesters. Part 35: Some regularities in interfacial polyesterification. Vysokom.soed. 4 no.7:968-971 Jl '62. (MIRA 15:7)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
(Esterification)
(Polymers)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

KORSHAK, V.V.; FRUNZE, T.M.; VINOGRADOVA, S.V.; KURASHEV, V.V.; LEBEDEVA, A.S.

Role of acid chloride hydrolysis of some alophatic and aromatic dicarboxylic acids in the process of interfacial polycondensation. Izv. AN SSSR.Otd.khim.nauk no.10:1807-1813 O '62. (MIRA 15:10)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
(Acids, Organic) (Chlorides) (Hydrolysis)
(Polymerization)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

2

L1914
S/191/62/000/011/006/019
B101/B186

15,8070

AUTHORS: Akutin, M. S., Korshak, V. V., Rodivilova, L. A., Vinogradova, S. V., Budnitskiy, Yu. M., Valetskiy, P. M., Lebedeva, A. S.

TITLE: New data on processing and properties of polyarylates

PERIODICAL: Plasticheskiye massy, no. 11, 1962, 20-26

TEXT: This paper deals with experiments for determining the optimum processing conditions of polyarylates from isophthalic acid and diane (ID), terephthalic acid and diane (TD), and the mixed polymer ITD (ratio isoterephthalic acid 1:1). Preliminary experiments showed that the interfacial polycondensation in more concentrated solutions than hitherto usual gave polymers with low molecular weight: thus 13.5% by weight of diane in NaOH solution + 15-20% by weight of isophthalic dichloride in methylene chloride yielded a polymer with MW ~18,000. A better result was obtained for ITD in the presence of 1% triethyl benzyl ammonium chloride as catalyst: the reduced viscosity in trioresol was 0.58. Injection-molded products were made from ID, TD, and ITD, and tested. Results:

Card 1/3

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New data on processing and ...

(1) At 280-360°C, ID and TD can be processed only in inert gas atmosphere since thermal destruction occurs if air is present. ITD can still be processed at these temperatures in the presence of air. (2) The strength of products depends on the molecular weight (or on the reduced viscosity). Adequate tensile strength (~ 400 kg/cm^2) is attained above η_{red} = 1.0. Products with a tensile strength of 850-900 kg/cm^2 were obtained from ITD with η_{red} = 1.9-2.0. (4) The tensile strength drops from 820 kg/cm^2 at 280°C to 480 kg/cm^2 at 340°C. (5) The effect of the molding time becomes manifest the tensile strength dropping from 850 kg/cm^2 after 10 min to 300 kg/cm^2 after 30 min molding time. (6) A change in molding pressure has no effect on the tensile strength. (7) Increasing the temperature of the mold from 80 to 160°C increases the tensile strength from 650 to 820 kg/cm^2, but a further increase (to 200°C) reduces the tensile strength. (8) A study of the chemical stability of injection-molded specimens and films showed: good stability to mineral and organic acids, oxidants, and dilute alkalis; poor stability to concentrated alkalis, particularly ammonia; swelling in some solvents, injection-molded specimens being more stable than films. The chemical stability of polyarylates resembles that of polycarbonates, and is inferior to that of polyethylene terephthalate

Card 2/3

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S/191/62/000/011/006/019
B101/B186

New data on processing and ...

only as regards the swelling in some organic solvents. There are 8 figures and 6 tables.

Card 3/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

L 13548-63 EWP(j)/EWT(m)/BDS ASD Pc-4 RM

ACCESSION NR: AP3000693 S/0190/63/005/005/0674/0680 62 58

AUTHOR: Korshak, V. V.; Vinogradova, S. V.; Lebedeva, A. S.

TITLE: Heterochain polyesters. 41. Interfacial synthesis of mixed polyarylates

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 5, no. 5, 1963, 674-680

TOPIC TAGS: interfacial synthesis, interfacial condensation, polyesters, polyarylates, diane, adipyl chloride, sebacyl chloride, tetraphthalyl chloride

ABSTRACT: The study involved the formation of mixed polyarylates by interfacial polycondensation, based on the interaction of diane (n,n'-dioxyphenyl-2,2-propane) and sebacyl-, adipyl-, terephthalyl-, and isophthalyl chlorides. The procedure consisted of adding to an alkaline 0.1m diane solution a 0.1m solution of the corresponding chlorides in an organic solvent. It was found that by using the chlorides of sebacyl and terephthalyl the solubility of the obtained polymers in n-xylene decreased with an increase of terephthalyl chloride. In comparing the infrared spectra of the obtained polymer with those of the diane-sebacyl and diane-terephthalyl polyarylates, the polymer proved to be of mixed nature. Studies of its softening behavior on heating, as well as of its solubility behavior pattern in n-xylene revealed its nonhomogeneous nature. This was confirmed by x-ray investigations which suggested an intermediate crystalline-amorphous structure. The

Card 1/2

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L 13548-63

ACCESSION NR: AP3000695

4

reactivity of the respective chlorides was shown to play an important role in the formation of the polyarylates, adipyl chloride heading the list. Thanks for the optical and x-ray determinations are given to the workers of the Institute of Organoelemental Compounds, Academy of Sciences SSSR, headed by I. V. Obreimov and A. I. Kitaygorodskiy. L. D. Reshetnikova participated in the experimental work. Orig. art. has: 1 figure and 3 tables.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Organoelemental Compounds, Academy of Sciences SSSR)

SUBMITTED: 12Oct61 DATE ACQ: 17Jun63 ENCL: 00

SUB CODE: CH NO REF SOV: 007 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

KORSHAK, V.V.; SIDOROV, T.A.; VINOGRADOVA, S.V.; KOMAROVA, L.I.; VALETSKIY, P.M.; LEBEDEVA, A.S.

Heterochain complex polyesters. Report No.52: Determination of double bonds in unsaturated polyarylates by infrared spectroscopy. Izv. AN SSSR Ser. khim. no.2:261-268 '65. (MIRA 18:2)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

L 40810-66 EWT(m)/EWP(j)/T IJP(c) WW/RM

ACC NR: AP6025623 SOURCE CODE: UR/0413/66/000/013/0077/0078

AUTHORS: Korshak, V. V.; Vinogradova, S. V.; Lebedeva, A. S.; Bulgakova, I. A.

ORG: none

TITLE: Preparative method for polyarylates. Class 39, No. 183386 [announced by Institute of Heteroorganic Compounds, AN SSSR (Institut elementoorganicheskikh soyedineniy AN SSSR)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 77-78

TOPIC TAGS: polyaryl~~ate~~ plastic, dicarboxylic acid, polycondensation

ABSTRACT: This Author Certificate presents a method for preparing polyarylates by polycondensation of dicarbonyl chlorides with bisphenols. To broaden the assortment of polyarylates having high thermal stability either bis(hydroxyphenyl)pyromellitimide or bis(hydroxyphenyl)pyromellitamic acid is used as the bisphenol. [04]

SUB CODE: 07/ SUBM DATE: 05Jul65/ ATD PRESS: 5059

Card 1/1 UDC: 678.673'52'52

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

ROZENSHTRAUKH, L.S., kand. med. nauk.; LEBEDEVA, A.T.; KUTUKOVA, Ye.A. (Moskva, ul. Pushkinskaya, d. 20/5, kv. 1.)

X-ray diagnosis of pericardial cysts. Nov. khir. arkh. 5:80-85 S-O '58. (MIRA 12:1)
S-O '58.

1. Kafedra rentgenologii II (zav.- prof. Yu.N. Sokolov) TSentral'nogo instituta usovershenstvovaniya vrachey, 1-ya khirurgicheskaya klinika (zav. - dots. N.I. Makhov) i rentgenologicheskiy otdel (zav.- dots. V.I. Petrov) Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta.
(PERICARDIUM--RADIOGRAPHY) (CYSTS)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, A.T.; SVETLAKOV, M.I.

Tomography in diagnosis of cancer of the larynx. Vest.rent. i rad. 33 no.2:88-90 Mr-Ap '58. (MIRA 11:6)

1. Iz rentgenologicheskogo otdela (zav. - kandidat meditsinskikh nauk V.I.Petrov) i kliniki bolezney ukha, gorla, nosa (zav. - prof. I.Ya.Sendul'skiy) Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta (dir. - kandidat meditsinskikh nauk P.M. Leonenko)

(LARYNX, neoplasms
diag. value of tomography (Rus))

/2001 CIA-RDP86-00513R000929030012-

LEBEDEVA, A.T.

X-ray diagnosis of certain noncontrast foreign bodies in the bronchi. Vestn. rentgen. i radiol. 38 no.4:37-40 Jl-Ag'63 (MIRA 17:2)

1. Iz rentgeno-radiologicheskogo otdela (rukovoditel' - doktor med. nauk V.I.Petrov) Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta imeni M.F.Vladimirskogo (dir. zasluzhennyy vrach RSFSR P.M. Leonenko).

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

MANUKOVSKIY, N.F., Geroy Sotsialisticheskogo Truda, brigadir; LEBEDEVA, A.T., zven'ev. Geroy Sotsialisticheskogo Truda; KOLYADINA, A.A.; GUSEVA, N.F.; GUBANOVA, M.T.; GURENKO, A.G., svinar'; SVIRIDOV, I.G., svinar'; SHERSHOVA, M.V., zootekhnik; GORIN, D.F.; TAMBOVTSEV, P.K.; ULIN, I.; SAYTANIDI, L.D., tekhn. red.

[Leaders of socialist competition from Voronezh tell their stories] Rasskazyvaiut peredoviki-voronezhtsy. Moskva, Izd-vo M-va sel'khoz. RSFSR, 1960. 54 p. (MIRA 14:11)

1. Brigada kompleksnoy mekhanizatsii kolkhoza imeni Kirova Voronezhskoy oblasti (for Manukovskiy). 2. Kolkhoz "Rossiya" Voronezhskoy oblasti (for Lebedeva, Shershova). 3. Ryadovyye zvena vysokoy proizvoditel'nosti kolkhoza imeni Stalina Voronezhskoy oblasti (for Kolyadina, Guseva). 4. Zven'yevaya kolkhoza imeni S.M.Kirova Voronezhskoy oblasti (for Gubanova). 5. Sovkhoz "Vorob'yevskiy" Voronezhskoy oblasti (for Gurenko). 6. Sovkhoz "Maslovskiy" Voronezhskoy oblasti (for Sviridov). 7. Predsedatel' kolkhoza "Podgornoye" Voronezhskoy oblasti (for Gorin). 8. Direktor sovkhoza "Vtoraya pyatiletka" Voronezhskoy oblasti (for Tambovtsev).

(Voronezh Province—Stock and stockbreeding)
(Socialist competition)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, A. Z.
25893

Puti I Dostizheniya Sovetskoy Nauki O Tuberkuleze. Byulleten' In-Ta Tuberkuleza Akad. Med. Nauk SSSR, 1948, No. 1, S. 3-11

SO: LETOPIS NO. 30, 1948

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, B.A.

Investigation of the mechanisms of chemoreception. VI. Modifications in the irritability of chemoreceptors following induction of metabolic disorders with monoidoacetic acid. Biul. eksp. biol. i med. 38 no.11: 19-27 N '54. (MLRA 8:1)

1. Iz laboratorii fiziologii retseptorov (zav. deystvitel'nyy chlen AMN SSSR V.N.Chernigovskiy) Instituta fiziologii imeni I.P.Pavlova (dir. akad. K.M.Bykov)

(IODOACETATES, effects,
on blood pressure & resp. responses to stimulation of intestine in cats)

(BLOOD PRESSURE, physiology,
eff. of intestinal stimulation in cats, eff.of iodoacetates on responses)

(RESPIRATION, physiology,
eff. of intestinal stimulation in cats, eff. of iodoacetates on responses)

(INTESTINES, physiology,
eff. of stimulation on blood pressure & resp., eff. of iodoacetates on responses in cats)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

ALEKSANDROV, P.P.; LEBEDEVA, B.A.; RONINSON, M.Yu. (Leningrad)

Work of a hospital council. Sov. zdrav. 20 no.8:58-63 '61. (MIRA 15:1)

1. Iz bol'nitsy imeni Karla Marksa, Leningrad.
(HOSPITALS--ADMINISTRATION)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

KHARITONOV, V.M.; LEBEDEVA, D.I.; KHARITONOVA, G.N.; TOROPOVA, Ye.G.; KIRIYENKO, I.B.

Preparation of "adimine" fibers. Khim.volok. no.5:47-49 '62. (MIRA 15:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut steklyanogo volokna (for Kharitonov, Lebedeva). 2. Klinskiy kombinat iskusstvennogo i sinteticheskogo volokna (for Kharitonova, Toropova, Kiriyenko).
(Textile fibers, Synthetic)
(Polyamides)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

BUDAGOV, A.V.; LEBEDEVA, D.M., glavnyy vrach.

Traumatic aneurism of the descending aorta. Vest.rent.i rad. no.3:83-86 My-Je '53. (MLRA 6:8)

1. Astrakhanskaya gorodskaya poliklinika imeni N.I.Pirogova.
(Aneurism, Aortic)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

SOV-10-58-4-13/28

AUTHORS: Grekov, V.I., Kamanin, L.G., Lebedeva, D.M., Lopatina, Ye.R., Fradkin, N.G.

TITLE: Landmarks in the History of Geographical Science (Pamyatnyye daty iz istorii geograficheskoy nauki)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geograficheskaya, 1958, Nr 4, pp 87-90 (USSR)

ABSTRACT: This article contains a list of memorable events in the field of geography from 1508 to 1933.

1. Geography--USSR

Card 1/1

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, D.V.

Casting weights for vibration dampers in high-voltage transmission systems. Lit.proizv. no.11:41 N '62. (MIRA 15:12)
(Molding (Founding))

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, E.A.

Controlling the formation of deposits in collecting pipes of phenolic wastes. Uzb.khim.zhur. no.2:71-72 '61. (MIRA 14:10)

1. Chirchikskiy elektrokhimicheskiy kombinat imeni Stalina.
(Factory waste)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

ROZHDESTVENSKIY, L.M., student VI kursa, NAVROTSKAYA, V.V., studentka III kursa
LEBEDEVA, E.D., studentka III kursa.

Experimental surgery in providing a plastic tube for the trachea.
Vest.oto.-rin. 20 no.3:105 My-Je '58 (MIRA 11:6)

1. Iz kafedry operativnoy khirurgii i topograficheskoy anatomii (zav. - prof. V.V. Kovanov) I Moskovskogo meditsinskogo instituta imeni I.M. Sechenova.
(TRACHEA--SURGERY)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

YUR'UEV, Yu.K.; PENTIN, Yu.A.; Revenko, O.M.; LEBEDEVA, E.I.

2,3-Dialkylpentamethylene sulfides and their infrared absorption spectra. Neftekhimiia 2 no.2:137-143 Mr-Ap '62. (MIRA 15:6)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova, khimicheskiy fakul'tet.
(Thiopyran—Spectra)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, E.I.

Universal tools for group pressing of cyclindrical parts. Stroj vyr 9 no.6:298-300 '61.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

MEL'NIKOV, N. N.; SHVETSOVA-SHILOVSKAYA, K. D.; LEBEDEVA, E. I.

Herbicides and plant regulators. Part 38: New method of preparing aryldialkylureas. Zhur. ob. khim. 32 no.12:3957-3959 D '62. (MIRA 16:1)

1. Nauchnyy institut po udobreniyam i insektofungitsidam imeni Ya. V. Samoylova, Moskva.

(Urea)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

SHVETSOVA-SHILOVSKAYA, K.D.; LEBEDEVA, E.I.; MEL'NIKOV, N.N.

Organic insectofungicides. Part 77: Interaction of phosphorothioic and phosphorodithioic acid esters with amino acids and amino alcohols. Zhur. ob. khim. 34 no.7:2138-2140 Jl '64 (MIRA 17:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh sredstv zashchity rasteniy, Moskva.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

SOV/166-59-2-2/11

16(1),16(2)

AUTHOR: Lebedeva, E.N.

TITLE: Solution of a System of Infinite Linear Equations (Resheniye odnoy sistemy beskonechnykh lineynykh uravneniy)

PERIODICAL: Izvestiya Akademii nauk Uzbekskoy SSR, Seriya fiziko-matematicheskikh nauk, 1959, Nr 2, pp 7-13 (USSR)

ABSTRACT: The author considers the system

$$\begin{cases} P_0'(t) = -\lambda P_0(t) + \beta P_1(t) \\ P_k'(t) = \lambda P_{k-1}(t) - (\lambda + k\beta) P_k(t) + (k+1)\beta P_{k+1}(t) \end{cases},$$

where $P_k(t)$ is the probability that in the moment t a system is in the state k. There are no assumptions on the existence of $\lim_{t\to\infty} P_k(t) = P_k (k = 0,1,2,\ldots)$ or on the admissibility of the limit passage in all equations at the same time. It is shown that the general solution is

$$P_{k-1} = \frac{y^{k-1}}{(k-1)!\sum_{i=1}^{n} \frac{y^{i-1}}{(i-1)!} + (k-1)!\,\frac{y^n}{(n-1)!(n-y)}},$$

Card

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

Solution of a System of Infinite Linear Equations SOV/166-59-2-2/11

where $y = \frac{\lambda}{\beta}$. The solution is performed according to the matrix method of T.A.Sarymsakov, Academician of the Academy of Sciences Uz. SSR [Ref 2]. The author mentions A.Ya.Khinchin and A.N. Kolmogorov.
There are 6 references, 3 of which are Soviet, 1 Danish, and 2 American.

ASSOCIATION: Sredneaziatskiy gosuniversitet imeni V.I.Lenin (Central Asian State University imeni V.I.Lenin)

SUBMITTED: May 23, 1958

Card 2/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, E.N.

Linear operators. Nauch. trudy TashGU no.206:195-202 '62. (MIRA 16:6)

(Operators (Mathematics))

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, E.N.

Solution of a system of infinite linear equations. Nauch. trudy TashGU no.208. Mat. nauki. no.23:114-121 '62. (MIRA 16:8)

(Linear equations)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

L 39715-66 EWP(j)/EWT(m)/T IJP(c) RM/WW/GD-2

ACC NR: AF6007964 (A) SOURCE CODE: UR/0191/66/000/003/0017/0019

AUTHOR: Nikolayev, A. F.; Wan Er-Ten; Zyryanova, T. A.; Balayev, G. A.; Lebedeva, E.V.; Afanas'yeva, K. S.

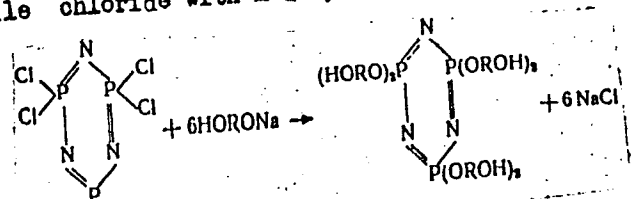
ORG: none

TITLE: Epoxy resins from derivatives of triphosphonitrile chloride

SOURCE: Plasticheskiye massy, no. 3, 1966, 17-19

TOPIC TAGS: epoxy plastic, organic synthetic process, heat resistance, thermoplastic material

ABSTRACT: The authors studied the preparation of thermoplastics which could be made from low-molecular-weight compounds during the final preparation of an article. Hexaglycidyl hexa-m-oxyphenylenetriphosphonitrile (ES-7) was prepared by the reaction of triphosphonitrile chloride with m-dihydroxybenzene in a basic medium:



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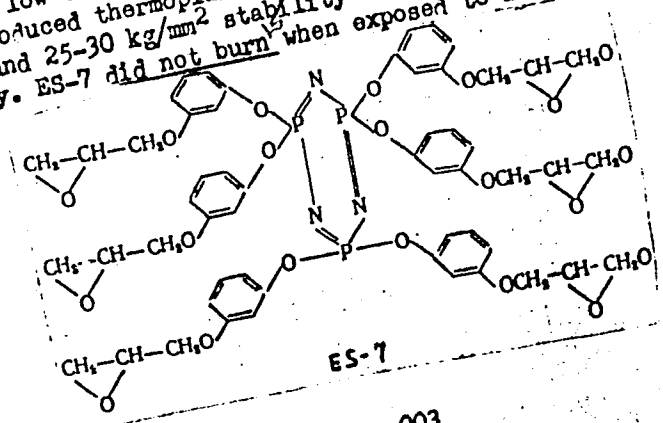
2

L 39715-66

ACC NR: AP6007964

and a subsequent reaction with epichlorohydrene. The reaction was performed either heterogeneously in toluene or xylene or homogeneously in an absolute ethanol-toluene mixture. Maleic anhydride (40%) was used successfully as the hardening agent, but the plastic produced had a low thermal stability. Hardening at 180C for 15-20 hr without any hardening agent produced thermoplastics resisting temperatures of 190-230C, having a 350-400 kg/cm^2 and 25-30 kg/mm^2 stability of adhesion-to-metal band and Vickers hardness, respectively. ES-7 did not burn when exposed to 100-1100C for 20 sec.



ES-7

Orig. art. has: 6 fig. ORIG REF: 003

SUB CODE: 07,11/SUBM DATE: none/

Card 2/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

L 35521-65 EWT(m)/EPF(c)/EPF/EWP(b)/T Pc-4/Pr-4/Ps-4 RPL WW/RM

ACCESSION NR: AP5008200 S/0286/65/000/005/0071/0071

34
B

AUTHORS: Nikolayev, A. F.; Zyryanova, T. A.; Balayev, G. A.; Lebedeva, E. V.; Afanas'yeva, K. S.

TITLE: A method for producing polyphosphonitrile chloride esters. Class 39, No. 168879

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 71

TOPIC TAGS: polyphosphonitrile chloride, ester, aliphatic compound, aromatic compound

ABSTRACT: This Author Certificate presents a method for producing polyphosphonitrile chloride esters by condensing polyphosphonitrile chloride with polyhydroxyl compounds of the aliphatic or aromatic series during heating in the presence of an alkaline agent. In order to expand the raw-material base and to simplify the technology of the process, a mixture of phosphonitrile chloride oligomers $(PNCl_2)_n$ ($n = 3-12$) is used as the initial polyphosphonitrile chlorides, and caustic alkalies are used as the alkaline agent.

ASSOCIATION: none SUB CODE: OC

SUBMITTED: 09Jan64 ENCL: 00

NO REF SOV: 000 OTHER: 000

Card 1/1

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, E.

Planning operational centers on collective farms in Bryansk Province. Sel'.stroi. 11 no.10:12-15 O '56. (MLRA 9:12)

1. Glavnyy inzhener Bryanskogo oblastnogo upravleniya po stroitel'stvu v kolkhozakh.
(Bryansk Province--Collective farms)
(Farm management)

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, F.B.

USSR •

Investigation of antiwear properties of lubricating oils by the radioactive tracer technique. Yu. S. Zaslavskii, G. I. Shor, and F. B. Lebedeva. *Izvest. Akad. Nauk S.S.S.R., Otd. Tekh. Nauk* 1959, 1598-1608.—The possibility of wear study on a friction machine constructed at the U.S.S.R. Academy of Sciences was demonstrated. Also studied was a single-cylinder motor with rings made radioactive either by radiation or by electroplating with radioactive Zn. The tracer method supplies quant. as well as qual. data.

W. M. Sternberg

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

LEBEDEVA, F. B.

FD 267

USSR/Engineering

Card 1/1

Authors : Zaslavskiy, Yu. S., Shor, G. I., Lebedeva, F. B.

Title : Accuracy of testing engines for wear by the radioactive-indicator method

Periodical : Iz. Ak. Nauk SSSR, OTN, 1, 54-60, Jan 1954

Abstract : Gives method and results of experimental study of accuracy of testing engine for wear by the radioactive-indicator method. Compares results obtained by simultaneous testing of the piston ring of single-cylinder engine L-3/2 for wear by the following methods: radioactive indicators, weight of piston ring, holes stamped in ring, and iron in oil. Four references: 2 U.S.S.R.; all 1953. Graphs, tables.

Institution :

Submitted : December 23, 1953. Presented by Academician V. I. Dikushin.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

ZASLOVSKIY, Yu. S., SHOR, G. I., KIRILLOV, I. G., LEBEDEVA, F. B., YEVSTIGNEYEV, Ye. V., and ZLOBIN, O. A.

"The Application of Radioactive Indicators (Tagged Atoms) in the Investigation of Wear Resistant Properties of Lubricating Oils." p. 58.

in book Study and Use of Petroleum Products, Moscow Gostoptekhizdat, 195 . 213 pp.

This collection of articles gives results of scientific research work of the All-Union Scientific Research Inst. for the Processing of Petroleum and Gas for the Production of Synthetic Liquid Fuel.

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

S/081/62/000/005/096/112
B160/B138

11,9700

AUTHORS: Zaslavskiy, Yu. S., Shor, G. I., Shneyerova, R. N., Lebedeva, F. B., Morozova, I. A., Ryabova, D. V., Stukin, A. D., Yevstigneyev, Ye. V., Yurchenko, P. F., Nizhnik, V. Ya.

TITLE: Radioactive tracer methods for studying the functional properties of oils with additives

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 5, 1962, 534, abstract 5M262 (Sb. "Prisadki k maslam i toplivam", M., Gostoptekhizdat, 1961, 263 - 269)

TEXT: A short description is given of the radioactive tracer method developed in the VNIINP for studying electrokinetic processes connected with the mechanism of the action of certain dispersive additives for heavy diesel lubricating oils. A diagram of the experimental equipment is given. Its main feature is the combined use of radiation counters as electrodes for producing the electric field and for recording the movement of the labelled dispersed phase. Soot with the radioactive isotope Tl^{204}

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B160/B138

Radioactive tracer methods for...

was used to model the dispersed phase (oil oxidation and fuel combustion products). In the radioisotope method of studying the detergent properties of oils with additives the amount of gummy deposit was measured from the absorption of Co^{60} beta radiation in it. The method of studying the detergent properties of oils with additives, based on the oxidation of a thin layer of oil on a heated strip of steel, has been improved by radiometric measurement of the deposits, using Ca^{45} as a source. The chemical activity of antiscoring additives was estimated by determining the kinetics of the transitions from radioactive steel (irradiated with neutrons via Fe^{59}) or copper (activated by introducing tracer amounts of Ag^{110} into molten copper) to the oil, under the influence of the test additives. [Abstracter's note: Complete translation.]

Card 2/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

L 20330-63 EPF(c)/EWT(m)/BDS AFFTC/APGC Pr-4 BW/WW/DJ

S/2264/61/000/000/0264/0269

ACCESSION NR: AT3001998

AUTHORS: Zaslavskiy, Yu. S.; Shor, G. I.; Shneyerova, R. N.; Lebedeva, F. B.; Morozova, I. A.; Ryabova, D. V.; Stukin, A. D.; Yevstigneyev, Ye. V.; Yurchenko, P. F.; Nizhnik, V. Ya.

TITLE: Methods of investigation of the effectiveness of additives. Radioactive-tracer methods for the investigation of the functional properties of oils with additives.

SOURCE: Prisadki k maslam i toplivam; trudy nauchno-tekhnicheskogo soveshchaniya. Moscow, Gostoptekhizdat, 1961, 264-269.

TOPIC TAGS: lubricant, lubrication, additive, radioactive, tracer, test, isotope, tagging, tagged, electrophoresis, dispersion, soot, detergent, varnish, wear, antiwear, seizure, antiseizure, Tl^{204}, Ca^{45}, Co^{60}, Fe^{59}, Ag^{110}, beta radiation, As-5, VNII NP-354.

ABSTRACT: In addition to a literature survey on the use of radioactive tracer (RAT) methods for testing of the functional and operational properties of oils with ... the paper describes several newly developed Soviet methods: (1) The ... of the electrokinetic processes involved in the

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mechanism of the action of some dispersion-augmenting additives to engine oils. In this method, the RAT radiation counters are employed simultaneously as electrodes for the formation of an electrical field and for the registration of the displacements of the tagged dispersive phase. The soot that simulates the dispersive phase (oxidation products of oil and fuel combustion) was tagged by the radioactive (RA) isotope Tl^{204}. The experimental equipment is schematically portrayed and described, and a diagram of the electrophoresis of the tagged soot in AS-5 engine oil (an S-containing-crude derivative) with VNII NP-354 additive is shown (counter readings in pulses/sec vs. time in min). (2) RAT methods for the investigation of the detergent properties of oils with additives. The degree of varnish formation is measured with a method based on the measurement of the thickness of varnish film by means of its absorption of the beta-radiation of Co^{60}. $Co^{60}(NO_3)_2$ served to activate areas on a piston which were not subject to wear. The amount of varnish film formed on the piston surface during a given testing period was evaluated with the aid of a calibrated graph that expressed the change in the intensity of radiation in units of the density of varnish film (in mg/dm^2). Test results, comprising the amount of deposits and the amount of soot in the deposits, for AS-5 oil with various additives, are tabulated. RAT methods, developed at the VNII VP for the evaluation of the chemical activity of antiseizure additives, are based on the postulate that the most effective antiseizure additives must be those chemical

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ACCESSION NR: AT3001998

compounds that have the greatest corrosional aggressiveness. The chemical activity of such additives was evaluated by the transfer kinetics of radioactive steel (Fe^{59}, neutron irradiated) or Cu (activated by tracer quantities of Ag^{110} in fused Cu). Tests of the radiometric determination of the chemical activity of additives are shown. Inasmuch as chemically active antiseizure additives may lead to appreciable chemical wear of friction surfaces under normal and even small loads, the VNII NP has developed a RAT method for an evaluation of the wear properties of oil with additives on a specially designed frictional-wear tester. The operative part of the machine is activated with Co^{60}. Small quantities of oil (appx. 1 cm^3) are employed; the global radioactivity of the oil is measured. Loads up to 80 kg/cm^2 at 1,000 rpm and oil T up to 250°C are attainable. Test results are graphed. Orig. art. has 5 figures and 2 tables.

ASSOCIATION: VNII NP

SUBMITTED: 00 DATE ACQ: 23Jan63 ENCL: 00

SUB CODE: FL, CH, EL NO REF SOV: 005 OTHER: 006

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LEBEDEVA, F.B.

32530
S/065/61/000/012/004/005
E194/E135

11.9700 also 1563 2209

AUTHORS: Zaslavskiy, Yu.S., Shor, G.I., Shneyerova, R.N., Kuznetsova, A.I., and Lebedeva, F.B.

TITLE: Reducing the corrosivity of extreme pressure (E.P.) additives without impairing their effectiveness

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.12, 1961, 39-43

TEXT: Previous work by the authors has shown that whereas anti-corrosion additives should have strongly bonded sulphur or phosphorus in the molecule, E.P. additives should easily release sulphur, phosphorus or chlorine to form compounds on the metallic surfaces at high contact temperatures. This explains the well-known correlation between good anti-wear properties and high corrosivity. A combination of anti-wear and anti-corrosion additive components should overcome the effect of delayed E.P. action in high-speed friction tests. In surfaces subject to high speed friction there is not always time for the E.P. additive to operate. For laboratory tests of two component additives the

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E194/E135

Reducing the corrosivity of ....

authors developed radiotracer methods of determining the chemical activity of E.P. additives in oils in the presence or absence of friction. The chemical activity of the E.P. additives was assessed by determining the kinetics of solution of radioactive steel in oil or of copper which was activated with Ag^{110}. Determination of the chemical activity relative to radioactive copper and steel were made with various sulphurised and chlorinated organic compounds and mixtures of these. For example, in tests with copper foil at a temperature of 150 °C it was found that chemical activity of the sulphur-containing additive dibenzyl disulphide and that of chlorinated wax were both much less than the chemical activity of a mixture of these additives. A mixture containing base oil plus 3% dibenzyl disulphide plus 7% chlorinated wax gave the best E.P. protection in the four ball test. When 6% of barium alkyl phenolate dissolved in oxpropylated alkyl-phenol was added to the oil containing dibenzyl disulphide and chlorinated wax there was a marked diminution in corrosivity of the oil without impairment of the E.P. properties. However, the reduced corrosivity to copper lasted for only ten hours. The anti-corrosion properties of

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E194/E135

Reducing the corrosivity of ...

phosphorus-containing compounds were also tested on the assumption that effective protection of metallic surfaces against corrosion by atoms of chlorine and sulphur can be achieved by creating, not a molecular, but a more continuous atomic film which is less penetrable. To create such films the phosphorus-containing compounds must be soluble in the base oil and release phosphorus at considerably lower temperatures than the decomposition temperatures of the E.P. components. It was indeed found that the use of phosphorus-containing additives ensured effective reduction of corrosion of steel at an oil temperature of 200 °C in the presence of a mixture of dibenzyl disulphide and chlorinated wax. Moreover, four ball machine tests showed that the E.P. properties were not impaired. Tricresyl phosphate had no anti-corrosive effect, whilst triphenyl phosphate caused a marked reduction in corrosion. By using phosphorus-containing anti-corrosion components in blends with more chemically active E.P. additives, effective blends may be made using chemical compounds that hitherto have been rejected because of their high corrosivity. E.P. oils were tested on a friction machine in which

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E194/E135

Reducing the corrosivity of ....

the rubbing surfaces are the ends of two hollow cast iron cylinders of 16 mm external diameter, one of which was radioactive. The tests were made at a speed of 600 r.p.m. with a load of 2.5 kg/cm^2 for a period of one hour. Typical test results show that the base oil gave a mean wear rate of 660 impulses/min of the counter; the base oil plus 3% of additive Л3-6/9 (LZ-6/9) plus 7% chlorinated wax gave a wear rate of 1920 impulses/min. The same plus 0.5% triphenyl phosphite gave a wear rate of 840 impulses/min. Thus the triphenyl phosphite reduced the corrosivity of the E.P. oil to the level of the base oil. There are 3 figures, 1 table and 17 references: 11 Soviet-bloc and 6 non-Soviet-bloc. The four most recent English language references read as follows:

Ref.11: J.S. Elliot, N.E. Hitchcock, E.D. Edwards. Hypoid Gear Lubricants and Additives. J. of the Institute of Petroleum, v.45, no.428, 219-235, 1959.

Ref.12: F.T. Barcroft. A Technique for Investigating Reactions between E.P. Additives and Metal Surfaces at High Temperatures. Wear, v.3, no.6, 413-500, 1960.

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E194/E135

Reducing the corrosivity of ....

Ref.14: R.B. Campbell, L. Grunberg. Study of reactions of metals with sulphur and phosphorus compounds by pulsed temperatures. Paper no.RICC/32 at the International Conference on the use of isotopes in Physics and Industry (Copenhagen, September 6-17, 1960). Izd. MAGATE, Vena, 1961.

Ref.15: G. Hugel. Chemical nature of extreme pressure lubrication. Lubrication Engineering, v.14, no.12, 523-526, 1958.

ASSOCIATION: VNII NP

Card 5/5

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

ZASLAVSKIY, Yu.S.; SHOR, G.I.; SHNEYEROVA, R.N.; LEBEDEVA, E.B.

Reducing chemical wear in using lubricating oils with antiseizing additives. Tren.i izn.mash. no.15:486-494 '62. (MIRA 15:4)
(Lubrication and lubricants—Testing)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

S/883/62/000/000/018/020
E194/E155

AUTHORS: Zaslavskiy, Yu.S., Shor, G.I., Pareshnichenko, A.N., and Lebedeva, E.B.

TITLE: Radio-tracer methods of studying the anti-wear properties of lubricants

SOURCE: Metody ispytaniya na iznashivaniye; trudy soveshchaniya, sostoyavshegosya 7-10 dek. 1960. Ed. by M.M. Khrushchov. Moscow, Izd-vo AN SSSR, 1962. 182-191

TEXT: Tests in engines with radioactive parts, such as are used at VNII NP and elsewhere, cannot fully assess the properties of additive type oils and they are supplemented by a number of laboratory test procedures. In test rig РУМ-1 (RUM-1) irradiated cast-iron blocks slide against the end of a cast-iron ring in the presence of acetic acid vapour, and wear is assessed by measuring the radioactivity of the oil. Alkaline additives such as barium alkyl phenolate retard wear until they are depleted. Results obtained on this apparatus with new and used oils correlate well with those obtained by engine tests and other procedures. A laboratory radioactivity indicator procedure was developed to

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assess the chemical activity of anti-wear additives by dissolving activated steel or copper in the oil. Test results are quoted for oil with various amounts of dibenzyldisulphide and chlorinated wax. Significant results are obtained in tests with steel at 200 °C in 75 hours or with copper at 150 °C in less than 5 hours. The results line up with seizure load determinations on the four-ball machines. The influence of chemical action of E.P. additives on frictional wear at light loads is assessed in a friction machine which uses hollow cylindrical test pieces 16 mm o.d.; 10 mm i.d., one being activated. One cylinder is driven at 600 r.p.m. Oil is contained between the cylinders. The radioactivity of all of the oil is measured, and so is the transfer of metal from the irradiated to the inactive rubbing surface. Test results are quoted on high- and low-sulphur basic lubricants with various additives. The repeatability is good and the effects of various changes in the oils are clearly shown. Detergent engine additives can sometimes promote wear. A rig is described which comprises combined oxidation and wear tests. The oil is contained in a teflon cup with a cast iron base against which an irradiated

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hollow cast iron cylinder rotates. A heated plate is contained in the oil and lacquer formation on this plate is assessed by the absorption of β-radiation. Wear is assessed by measuring the radioactivity of the oil. The test sample of 25 mℓ is heated up to 190 °C during the test by the combined effects of the hot surface and friction. The test lasts for 5 hours. The combination of wear and oxidation test provides an effective way of differentiating between oils.
There are 5 figures and 4 tables.

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"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5

ZASLAVSKIY, Yu. S.; SHOR, G. I.; MOROZOVA, I. A.; LEBEDEVA, F. B.; YEVSTIGNEYEV, Ye. V.; SHNEYEROVA, R. N.

"New methods of investigation of lubricant properties."

report submitted for Intl Lubrication Conf, Washington, D.C., 13-16 Oct 64.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929030012-5"