

# CA SEARCH<sup>®</sup>: CHEMICAL ABSTRACTS<sup>®</sup>

## ONTAP<sup>®</sup> CA SEARCH<sup>®</sup>: CHEMICAL ABSTRACTS<sup>®</sup> (FILE 204)

### FILE DESCRIPTION

The **CA SEARCH<sup>®</sup>: Chemical Abstracts<sup>®</sup>** database includes over 20 million citations to the worldwide literature of chemistry and its applications from 1967 forward. CA SEARCH corresponds to the bibliographic information and complete indexing found in the print Chemical Abstracts<sup>®</sup> published by CAS<sup>®</sup> (Chemical Abstracts Service). The controlled vocabulary CA General Subject Index Headings, related general subject terminology from the CA Index Guide, and CAS<sup>®</sup> Registry Numbers, each with its modifying phrase are included. Chemical substances are represented by CAS<sup>®</sup> Registry Numbers, unique numbers assigned to each specific chemical compound: corresponding substance information may be searched in the DIALOG chemical substance files such as CHEMSEARCH<sup>™</sup> (File 398). All records from the 8th Collective Index (CI) period forward are contained in File 399; Files 308-314 contain records from the individual CI periods as indicated in the File Data.

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### SUBJECT COVERAGE

Coverage includes a broad spectrum of chemical information that includes both the basic and applied chemical sciences. Included are studies of elementary subatomic particles, elements, compounds, and other substances, and their occurrence, composition, structure, preparation, properties, reactions, detection, and determination. The following principal areas of chemical applications and technologies of chemical substances are included:

- Analytical and Physical Chemistry
- Applied Chemistry
- Biochemistry and Biology
- Chemical Engineering
- Environmental Chemistry
- Macromolecular Chemistry
- Organic and Inorganic Chemistry
- Pharmaceuticals
- Properties and Reactions
- Radiation Chemistry
- Toxicology

### SOURCES

The following sources are included in CA SEARCH: journal articles, patents, reviews, technical reports, monographs, conference and symposium proceedings, dissertations, books, and journal article preprints.

### TIPS

#### USE FILE 399

to search the world's chemical literature and patents for all aspects of chemical research or technology.

#### USE RN=

to precisely search a chemical substance.

SELECT RN=1310-73-2

#### USE MAP RN T

to create a temporary SearchSave of CAS<sup>®</sup> Registry Numbers for decoding in File 398 or further searching.

MAP RN TEMP S3/1-3

#### USE MAP PN T

to create a temporary SearchSave of patent numbers for further searching in other patent files.

MAP PN TEMP S5

### DIALOG FILE DATA

Inclusive Dates: 1967-71 (8th CI) (File 308)  
1972-76 (9th CI) (File 309)  
1977-81 (10th CI) (File 310)  
1982-86 (11th CI) (File 311)  
1987-91 (12th CI) (File 312)  
1992-96 (13th CI) (File 313)  
1997-present (File 314)  
1967-present (File 399)  
9/1 - 12/5/1977 (File 204)

#### Update Frequency:

Closed (Files 204,308,309,310,311,312,313)

Weekly (approx. 18,000 rec. per update) (Files 314,399)

File Size: 1,309,754 records (File 308)

1,768,263 records (File 309)

2,200,738 records (File 310)

2,302,409 records (File 311)

2,482,344 records (File 312)

3,130,820 records (File 313)

7,143,189 rec. as of January 2006 (File 314)

20,414,117 rec. as of January 2006 (File 399)

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Files 399,308-314 CA SEARCH®: CHEMICAL ABSTRACTS®

SAMPLE PATENT RECORD

DIALOG(R)File 399:CA SEARCH(R)  
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**/PAT** 121208516 CA: 121(18)208516x PATENT  
**/TI** Two-stage process for the manufacture of fluoride- and hydrolysis-resistant dicalcium phosphate dihydrate for toothpastes.  
**AU=** INVENTOR(AUTHOR): Dany, Franz-Josef; Kalteyer, Gerhard; Nolte, Gerhard; Prell, Hedwig  
**CS=** LOCATION: Germany,  
**PA=, CS=** ASSIGNEE: Hoechst A.-G.  
**PC=,PN=,PD=** PATENT: European Pat. Appl. ; EP 613858 A1 DATE: 940907  
**AC=,AD=,AN=** APPLICATION: EP 94101680 (940204) \*DE 4306673 (930304)  
**CO=,LA=,CL=** PAGES: 7 pp. CODEN: EPXXDW LANGUAGE: German CLASS: C01B-025/32A;  
**DC=** A61K-007/16B DESIGNATED COUNTRIES: BE; DE; FR; GB; IT  
SECTION:  
**SC=, /SH** CA249005 Industrial Inorganic Chemicals  
CA262XXX Essential Oils and Cosmetics  
**/ID** IDENTIFIERS: dicalcium phosphate dihydrate toothpaste, dimagnesium phosphate trihydrate stabilizer phosphate, polyphosphoric acid stabilizer dicalcium phosphate  
**/DE** DESCRIPTORS:  
**GS=** Dentifrices...  
fluoride- and hydrolysis-resistant stabilized dicalcium phosphate dihydrate manuf. for, for post-thickening prevention  
Polyphosphoric acids...  
stabilizer; reaction mixts. contg., in dimagnesium phosphate trihydrate-coated dicalcium phosphate dihydrate pptn. for toothpastes, for post-thickening prevention  
CAS REGISTRY NUMBERS:  
**RN=, /DE** 7789-77-7P manuf. of fluoride- and hydrolysis-resistant, stabilizers in, for toothpastes, for post-thickening prevention  
7664-38-2 reactions, polyphosphoric acid-contg., reactions of, in dimagnesium phosphate trihydrate-coated dicalcium phosphate dihydrate pptn. for toothpastes, for post-thickening prevention  
471-34-1 7786-30-3 reactions, reaction of, in dimagnesium phosphate trihydrate-coated dicalcium phosphate dihydrate pptn. for toothpastes, for post-thickening prevention  
7782-75-4P stabilizer; pptn. of, on dicalcium phosphate dihydrate ppt. for toothpastes, polyphosphoric acid as addnl. stabilizer in, for post-thickening prevention  
1310-73-2 uses, pH control with, in dimagnesium phosphate trihydrate-coated dicalcium phosphate dihydrate pptn. for toothpastes, for post-thickening prevention

SAMPLE NON-PATENT RECORD

DIALOG(R)File 399:CA SEARCH(R)  
(c) 1997 American Chemical Society. All rts. reserv.

**DT=** 121211788 CA: 121(18)211788t TECHNICAL REPORT  
**/TI** Air/superfund guide to pollutant toxicity  
**CS=** CORPORATE AUTHOR(S): United States Environmental Protection Agency  
**CS=** LOCATION: Office of Air Quality Planning and Standards, Research Triangle Park, NC, 27711, USA  
**JN=** JOURNAL: U. S. Environ. Prot. Agency, Off. Air Qual. Plann. Stand.,  
**PY=, RP=** (Tech. Rep.) EPA DATE: 1994 NUMBER: EPA-451/R-94-002 PAGES: 98 pp.  
**CO=, LA=** CODEN: UEPEDY LANGUAGE: English  
SECTION:  
**SC=, /SH** CA259002 Air Pollution and Industrial Hygiene  
CA204XXX Toxicology  
CA205XXX Agrochemical Bioregulators  
CA245XXX Industrial Organic Chemicals, Leather, Fats, and Waxes  
CA249XXX Industrial Inorganic Chemicals  
**/ID** IDENTIFIERS: air Superfund guide pollutant toxicity, volatile org air pollutant toxicity, heavy metal air pollutant toxicity, pesticide air pollutant toxicity, org compd air pollutant toxicity, health hazard inhalation air pollutant  
DESCRIPTORS:  
**/DE, GS=** Air pollution... Metals,heavy,biological studies... Pesticides... Toxicity...  
**/DE** air/Superfund guide to pollutant toxicity in terms of inhalation equiv.  
**GS=, /DE** Health hazard...  
**/DE** air/Superfund guide to pollutant toxicity in terms of inhalation equiv. in relation to

**SAMPLE NON-PATENT RECORD (cont'd)**

Volatile substances...  
 org.; air/Superfund guide to pollutant toxicity in terms of inhalation equiv.  
 CAS REGISTRY NUMBERS:  
**RN=** 60-57-1 71-55-6 76-44-8 79-00-5 79-34-5 106-46-7 156-59-2 309-00-2  
 8001-35-2 10061-01-5 10061-02-6 12789-03-6 air/Superfund guide to  
**/DE** pollutant toxicity in terms of inhalation equiv.  
**RN=** 50-00-0 50-29-3 50-32-8 56-23-5 67-66-3 71-43-2 75-01-4 75-09-2  
 75-35-4 79-01-6 100-41-4 107-06-2 108-88-3 108-90-7 127-18-4  
 1330-20-7 7439-92-1 7440-38-2 7440-41-7 7440-43-9 7440-47-3  
**/DE** biological studies, air/Superfund guide to pollutant toxicity in terms  
 of inhalation equiv.  
 92-52-4D chloro derivs., air/Superfund guide to pollutant toxicity in  
 terms of inhalation equiv.

**SEARCH OPTIONS**

**BASIC INDEX**

SEARCH SUFFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
—	—	All Basic Index Fields <sup>1</sup>	Segment & Word	S DI(W)CALCIUM S POLLUTANT(W)TOXICITY
/DE	DE	Descriptor <sup>1,2,3</sup>	Segment & Word & Phrase	S POLY/DE S POLYPHOSPHORIC(W)ACID/DE S POLYPHOSPHORIC ACIDS/DE S RN=50-00-0(S)BIOLOGICAL(W)STUDIES/DE
/ID	ID	Identifier <sup>1,4</sup>	Segment & Word	S DI/ID S DIMAGNESIUM(W)PHOSPHATE/ID
/SH	SH	CA Section Title <sup>1,5</sup>	Word & Phrase	S (OILS(1W)COSMETICS)/SH S ESSENTIAL OILS "AND" COSMETICS/SH
/TI	TI	Title <sup>1,6</sup>	Segment & Word	S DI/TI S (AIR(W)SUPERFUND(W)GUIDE)/TI

<sup>1</sup> Any term in the Basic Index may be limited to a full term using /FF, e.g., S OLEFIN/FF. /FF eliminates chemical segmentation

<sup>2</sup> Also /DF.

<sup>3</sup> Phrase indexing is for the General Subject Headings only.

<sup>4</sup> Also /IF.

<sup>5</sup> Display includes CA Section Title and CA Section Code.

<sup>6</sup> Also /TF.

**ADDITIONAL INDEXES**

SEARCH PREFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
AC=	AC	Application Country <sup>7</sup>	Phrase	S AC=EP
AD=	AD	Application Date <sup>7,8</sup>	Phrase	S AD=930304 S AD=19970102
AN=	AN	Priority Application Number <sup>7,9</sup>	Phrase	S AN=DE 4306673 S AN="GB 83/29082"
AU=	AU	Author or Inventor <sup>10</sup>	Phrase	S AU=DANY, FRANZ-JOSEF
—	AZ	DIALOG Accession Number		
BN=	BN	International Standard Book Number (ISBN) <sup>12</sup>	Phrase	S BN=0-7803-6520-8
CL=	CL	Patent Classification Number <sup>21,23</sup>	Phrase	S CL="C01B-025/32A" S CL=065031000 S CL=C01B-025 S CO=UEPEDY
CO=	CO	CODEN	Phrase	S CO=ENVIRON
CS=	CS	Corporate Source	Word	S CS=(ENVIRONMENTAL(W)PROTECT?)
CT=	CT	Citation <sup>13</sup>	Word	S CT=(GOV(W)REP(W)ANNOUNCE)
DC=	DC	Designated Country <sup>13</sup>	Phrase	S DC=FR
DR=	DR	Designated Region <sup>13</sup>	Phrase	S DR=DE
DT=	DT	Document Type <sup>14</sup>	Phrase	S DT=TECHNICAL REPORT
GS=	GS	General Subject Index Heading	Phrase	S GS=HEALTH HAZARD
IA=	IC	International Patent Classification Attributes <sup>22</sup>	Word	S IA=B S IA=B(S)IC="C22B-0003/18"
IC=	IC	International Patent Classification (IPCR/8) <sup>21,22</sup>	Phrase	IC="C22B-0003/18" IC=C22B-0003 IC="C22B-0003/18"(S)IA=B S II=0002-7863(96)00105-9
II=	II	Publisher Item Identifier (PII) <sup>11</sup>	Phrase	S II=0002-7863(96)00105-9
JA=	—	Journal Announcement <sup>15</sup>	Phrase	S JA=CA12118
JN=	JN	Journal Name	Phrase	S JN=U. S. ENVIRON. PROT. AGENCY?
LA=	LA	Language	Phrase	S LA=GERMAN
MT=	MT	Media Type <sup>11</sup>	Phrase	S MT=COMPUTER OPTICAL DISC
PA=	PA	Patent Assignee	Word & Phrase	S PA=(HOECHST(W)A(W)G) S PA=HOECHST A?
PC=	PC	Patent Country <sup>20</sup>	Phrase	S PC=EP
PD=	PD	Patent Date <sup>8</sup>	Phrase	S PD=940907 S PD=19970103

# Files 399,308-314 CA SEARCH®: CHEMICAL ABSTRACTS®

## ADDITIONAL INDEXES (cont'd)

SEARCH PREFIX	DISPLAY CODE	FIELD NAME	INDEXING	SELECT EXAMPLES
—	PI	Patent Information <sup>16</sup>		
PN=	PN	Patent Number	Phrase	S PN=EP 613858
PU=	PU	Publisher <sup>17</sup>	Phrase	S PU=SPRINGER
PY=	PY	Publication Year	Phrase	S PY=1994
RN=	RN	CAS(R) Registry Number	Phrase	S RN=7782-75-4P
RP=	RP	Report Number	Phrase	S RP="EPA-451/R-94-002"
SC=	SC	CA Section Code <sup>5</sup>	Phrase	S SC=CA259002
SN=	SN	International Standard Serial Number (ISSN) <sup>18</sup>	Phrase	S SN=0002-7863
—	SO	Source Information <sup>19</sup>		
UD=	—	Update <sup>15</sup>	Phrase	S UD=13518:9999
UR=	UR	Uniform Resource Locator (URL) <sup>11</sup>	Phrase	S UR="HTTP://EXPRESS.COM"?

<sup>7</sup> Display includes Application Country, Application Date, and Application Number.

<sup>8</sup> Dates prior to January 1997 (UD=12601) use only 6 digits, e.g., S PD=940907. After UD=12601, both six and eight digits can be used, e.g., S PD=19970103, to retrieve dates entered only as 8 digits. To search publication dates that may have been entered before, as well as after update 12601, both formats should be searched as follows: SET Y2K OFF; S PD=(96? OR 1996?). Be sure to enter SET Y2K ON, for further searching in other files during the same online session.

<sup>9</sup> From 1972 forward.

<sup>10</sup> Prior to January 1997 (UD=12601) only the first ten authors were available.

<sup>11</sup> Available from January 1997 forward (UD=12601)

<sup>12</sup> Available from January 2002 forward (UD=13601).

<sup>13</sup> Searchable from January 1982 forward.

<sup>14</sup> The following five entries may be SELECTED using DT=: BOOK, CONFERENCE PROCEEDING, DISSERTATION, PREPRINT, and TECHNICAL REPORT. To limit to patents use /PAT.

<sup>15</sup> Use to search updates for the closed files, 308-311, or updates prior to 1987 in File 399. UD= available in Files 312, 313, 314 and 399 only

<sup>16</sup> Display includes Application Country, Application Number, Application Date, Patent Country, Patent Number, and Patent Date.

<sup>17</sup> Available for books and conference proceedings. Available for journals since January 1997 forward.

<sup>18</sup> From January 1978 forward.

<sup>19</sup> Display may include Journal Name, Volume, Pagination, Publication Year and Date (for meetings), Report Number, Citation, Publisher, Patent Number and Date, and Application Number and Date.

<sup>20</sup> PC= includes designated countries and regions (DC= and DR=).

<sup>21</sup> As of January 1, 2006, the IPCR/8 group classification number has increased in length from 3 to 4 digits, e.g., H04R-025/00 is now H04R-0025/00, and are cascaded at the subclass level. IPCR/8 data was first added to the file in UD=14404 and is a new field searchable with IC= and has a companion field IA=. For comprehensive searching of international classifications search CL= for pre-IPCR/8 classifications and IC= for IPCR/8 classifications, e.g., ?S CL=H04R-025 OR IC=H04R-0025. The IPCR/8 attributes are searchable using the IA= field.

<sup>22</sup> Each IPCR/8 classification code is also assigned a series of attributes. These include classification level (A = Advanced, C=Core, S=Subclass), value (I=Inventive, N=non-inventive), position (F=First, L=Later), status (B=Basic, R=Reclassified, V=Various, D=Deleted), version date, action date, source (H=Human, M=Machine, G=Generated), and assigning office. These classification attributes can be search separately with the IA= prefix and can be linked to a classification code.

<sup>23</sup> CL= contains national classifications such as US and pre-IPCR/8 classifications. For comprehensive searching of international classifications search CL= for pre-IPCR/8 classifications and IC= for IPCR/8 classifications, e.g., ?S CL=H04R-025 OR IC=H04R-0025.

**SPECIAL FEATURES**

For command descriptions, enter HELP LIMIT, HELP SORT, HELP RANK, HELP MAP online.

<b>LIMIT</b>	/ -- DIALOG Accession Number /ENG -- English Language /NONENG -- Non-English Language /NPT -- Non-Patent Records /PAT -- Patent Records /YYYY -- Publication Year	S S3/12600001-99999999 S S5/ENG S S2/NONENG S S8/NPT S S3/PAT S S2/1998:2002
<b>SORT</b>	<b>AU, CO, CS, PY</b>	SORT S13/ALL/AU PRINT S5/5/1-24/CO
<b>RANK</b>	All phrase- and numeric-indexed fields in the Additional Indexes can be ranked. Note: RANK PD works only for patent records; RANK PY works only for non-patent records. To rank by date across all records, use RANK PY,PD.	RANK JN
<b>MAP</b>	AN, CL, CO, DE, IC, PA, PN, RN, SC	MAP RN TEMP S3

**PREDEFINED FORMAT OPTIONS**

NO.	DIALOGWEB FORMAT	RECORD CONTENT
1	--	DIALOG Accession Number (CA Volume and Abstract Number)
2	--	Bibliographic Citation and Keyword Phrase(s)
3	Medium	Bibliographic Citation
4	--	Full Record with Tagged Fields
5	Long	Full Record
6	--	Title and Database Copyright Statement (no accession number)
7	--	Full Record
8	Short	Title, Keyword Phrase(s) and Descriptors (no accession number)
9	Full	Full Record

**OTHER OUTPUT OPTIONS**

For an explanation, enter HELP TYPE, HELP UDF, HELP TAG online.

<b>USER DEFINED FORMATS</b>	Display codes listed in the Search Options tables can be used to customize output.	TYPE S3/T1,AU,DC,PN/1-10
<b>TAG</b>	Output can be displayed with tags identifying each display field.	TYPE S2/3/1-5 TAG
<b>DIRECT RECORD ACCESS</b>	If the accession number of a specific record is known, it can be used to display the record directly.	TYPE 121208516 DISPLAY 121211788 PRINT 121000354

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See HELP FIELDS 399 for searchable fields; HELP FORMAT 399 for output formats; HELP LIMIT 399 for limits; HELP RATES 399 for cost information; HELP SORT 399 for sorts.