

## Diisononyl Phthalate (DINP) Reference List

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## Data Sets

The following data sets are provided to the US EPA as reference material for the risk evaluation of DINP:

- Centers for Disease Control and Prevention (CDC). 2018. National Health and Nutrition Examination Survey. <https://www.cdc.gov/nchs/nhanes/index.htm>. Last Accessed 11-27-2018.
- Centers for Disease Control and Prevention (CDC). 2018. Fourth National Report on Human Exposure to Environmental Chemicals. Updated Tables, March 2018, Volume One. [https://www.cdc.gov/exposurereport/pdf/FourthReport\\_UpdatedTables\\_Volume1\\_Mar2018.pdf](https://www.cdc.gov/exposurereport/pdf/FourthReport_UpdatedTables_Volume1_Mar2018.pdf). Last Accessed 11-27-2018.
- European Chemicals Agency (ECHA). 2018. 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich. CAS Number: 68515-48-0. <https://echa.europa.eu/registration-dossier/-/registered-dossier/13580>. Last Accessed 11/27/2018.
- European Chemicals Agency (ECHA). 2018. Di-"isononyl" phthalate. CAS Number: 28553-12-0. <https://echa.europa.eu/registration-dossier/-/registered-dossier/14959>. Last Accessed 11/27/2018.
- Martino-Andrade AJ, Liu F, Sathyanarayana S, Barrett ES, Redmon J, Nguyen RH, Levine H, Swan SH; TIDES Study Team. Timing of prenatal phthalate exposure in relation to genital endpoints in male newborns. *Andrology*. 2016 Jul;4(4):585-93. doi: 10.1111/andr.12180. Epub 2016 Apr 7. <https://www.ncbi.nlm.nih.gov/pubmed/27062102>
- Organisation for Economic Co-operation and Development (OECD). 1999. SIDS Initial Assessment Profile. CAS No. 68515-48-0 and 28553-12-0. 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich, and di-"isononyl" phthalate. <https://hpvchemicals.oecd.org/ui/handler.axd?id=a5f2cbc6-78b4-41c0-ab33-f847890b7a01>
- Study for Future Families Biomonitoring Data, attached to email from F. Liu, University of Rochester Medical College to S. Swan and C. Gennings (Feb. 07 2011), <https://www.cpsc.gov/s3fs-public/SFF-Biomonitoring-Data.pdf>.
- Swan, S; Calafat, A; Kruse, R; Lasley, B; Redmon, B; Sparks, A; Wang, C. 2007. Final Report: Study of Phthalates in Pregnant Woman and Children (Study for Future Families (SFF)). EPA Grant Number: R829436. [https://cfpub.epa.gov/ncer\\_abstracts/index.cfm/fuseaction/display.highlight/abstract/1950/report/F](https://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/display.highlight/abstract/1950/report/F). Last Accessed 1-7-2019.
- Swan SH, Sathyanarayana S, Barrett ES, Janssen S, Liu F, Nguyen RH, Redmon JB; TIDES Study Team. First trimester phthalate exposure and anogenital distance in newborns. *Hum Reprod*. 2015 Apr;30(4):963-72. doi: 10.1093/humrep/deu363. Epub 2015 Feb 18. <https://www.ncbi.nlm.nih.gov/pubmed/25697839>
- U.S. EPA. 2014. Scoping Information, Preliminary Literature Search, Associated Strategy and Evidence Tables for DINP. [http://ofmpub.epa.gov/eims/eimscomm.getfile?p\\_download\\_id=525505](http://ofmpub.epa.gov/eims/eimscomm.getfile?p_download_id=525505).

## Regulatory Assessments

The following references are hazard or risk assessments previously conducted by governmental agencies:

1. Australian Government National Industrial Chemicals Notification and Assessment Scheme (NICNAS). 2012. Diisononyl Phthalate. Priority Existing Chemical Assessment Report No. 35. September 2012.  
[https://www.nicnas.gov.au/\\_data/assets/word\\_doc/0008/34838/PEC35-DINP.docx](https://www.nicnas.gov.au/_data/assets/word_doc/0008/34838/PEC35-DINP.docx). Last Accessed 11-21-2018.
2. Australian Government National Industrial Chemicals Notification and Assessment Scheme NICNAS 2017. Human health tier II assessment for diisononyl phthalates and related compounds, [https://www.nicnas.gov.au/chemical-information/imap-assessments/imap-group-assessment-report?assessment\\_id=1178#cas-A\\_28553-12-0](https://www.nicnas.gov.au/chemical-information/imap-assessments/imap-group-assessment-report?assessment_id=1178#cas-A_28553-12-0)
3. California Office of Environmental Health Hazard Assessment (OEHHA). 2013. Evidence on the Carcinogenicity of Diisononyl Phthalate (DINP). October 2013.  
<https://oehha.ca.gov/media/downloads/proposition-65/chemicals/dinphid100413.pdf>. Last Accessed 1-07-2019.
4. California Office of Environmental Health Hazard Assessment (OEHHA). Chemical Listed Effective December 20, 2013 as Known to the State of California to Cause Cancer: Diisononyl Phthalate (DINP) (Dec. 12, 2013). <https://oehha.ca.gov/proposition-65/cmr/chemical-listed-effective-december-20-2013-known-state-california-cause-cancer>. Last Accessed 1-7-2019.
5. California Office of Environmental Health Hazard Assessment (OEHHA). 2015. Initial Statement of Reasons for NSRL for Diisononyl Phthalate (DINP).  
<https://oehha.ca.gov/media/downloads/proposition-65/chemicals/121914isora25903.pdf>
6. Committee for Risk Assessment (RAC). 2018. Opinion proposing harmonised classification and labelling at EU level of 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkylesters, C9- rich; [1]di-“isononyl” phthalate; [2] [DINP]. CLH-O-0000001412-86-201/F. 9. March 2018.  
<https://echa.europa.eu/documents/10162/56980740-fcb6-6755-d7bb-bfe797c36ee7>. Last Accessed 11-21-2018.
7. Committee for Risk Assessment (RAC). 2013. Opinion on the ECHA’s draft review report on “Evaluation of new scientific evidence concerning DINP and DIDP in relation to entry 52 of Annex XVII to Regulation (EC) No 1907/2006 (REACH).” ECHA/RAC/A77-O-0000001412-86-10/F. 8 March 2013.  
[https://echa.europa.eu/documents/10162/13579/rac\\_opinion\\_dinp\\_didp\\_en.pdf/f54e95e0-c116-4f31-a52d-e6f680e3ebc6](https://echa.europa.eu/documents/10162/13579/rac_opinion_dinp_didp_en.pdf/f54e95e0-c116-4f31-a52d-e6f680e3ebc6). Last Accessed 11/21/2018.
8. Consumer Product Safety Commission. 1998. Risk of chronic toxicity associated with exposure to diisononyl phthalate (DINP) in children's product (80). U.S. Consumer Product Safety Commission. [HERO ID: 791209](#),
9. Consumer Product Safety Commission. 2001. Report to the U.S. Consumer Product Safety Commission by the Chronic Hazard Advisory Panel on diisononyl phthalate (DINP) Bethesda, MD: U.S. Consumer Product Safety Commission. [HERO ID: 679920](#)

## APPENDIX C – DIISONONYL PHTHALATE (DINP) REFERENCE LIST

10. Consumer Product Safety Commission. 2010. Toxicity review of DINP. <https://www.cpsc.gov/s3fs-public/toxicityDINP.pdf>. Last Accessed 11-27-2018.
11. Consumer Product Safety Commission. 2010. Review of Exposure Data and Assessments for Select Dialkyl Ortho-phthalates. <https://www.cpsc.gov/s3fs-public/pthalexp.pdf>. Last Accessed 11-24-2018.
12. Consumer Product Safety Commission. 2010. Overview of dialkyl o-phthalates Toxicity Memo. <https://www.cpsc.gov/s3fs-public/phthalover.pdf>. Last Accessed 11-23-2018.
13. Consumer Product Safety Commission. 2010. Phthalate and Phthalate Substitutes in Children's Toys. <https://www.cpsc.gov/s3fs-public/phthallab.pdf>. Last Accessed 11-23-2018.
14. Consumer Product Safety Commission. 2014. Chronic Hazard Advisory Panel on Phthalates and Phthalate Alternatives Final Report (2014). <https://www.cpsc.gov/s3fs-public/CHAP-REPORT-With-Appendices.pdf>. Last Accessed 11-21-2018.
15. Consumer Product Safety Commission. 2015. Estimated Phthalate Exposure and Risk to Pregnant Women and Women of Reproductive Age as Assessed Using Four NHANES Biomonitoring Data Sets (2005/2006, 2007/2008, 2009/2010, 2011/2012). <https://www.cpsc.gov/s3fs-public/NHANES-Biomonitoring-analysis-for-Commission.pdf>. Last Accessed 11-21-2018.
16. Consumer Product Safety Commission. 2017. Estimated Phthalate Exposure and Risk to Women of Reproductive Age as Assessed Using 2013 2014 NHANES Biomonitoring Data. <https://www.cpsc.gov/s3fs-public/Estimated%20Phthalate%20Exposure%20and%20Risk%20to%20Women%20of%20Reproductive%20Age%20as%20Assessed%20Using%202013%202014%20NHANES%20Biomonitoring%20Data.pdf>. Last Accessed 11-21-2018.
17. Consumer Product Safety Commission. 2017. Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates. October 2017, 82 Fed. Reg. 49938.
18. Consumer Product Safety Commission. 2018. Chronic Hazard Advisory Panel Meetings, Teleconferences and Other Meetings Related to the CHAP, and Correspondence. <https://www.cpsc.gov/chap>. Last Accessed 11-21-2018.
19. Environment Canada and Health Canada. State of the Science Report. 2015. Phthalate Substance Grouping 1,2-Benzenedicarboxylic acid, diisononyl ester 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich (Diisononyl Phthalate; DINP). [http://ec.gc.ca/ese-ees/47F58AA5-57BE-4869-A128-587DEADCAAD8/SoS\\_Phthalates%20%28DINP%29\\_EN.pdf](http://ec.gc.ca/ese-ees/47F58AA5-57BE-4869-A128-587DEADCAAD8/SoS_Phthalates%20%28DINP%29_EN.pdf) Last Accessed 11-27-2018.
20. Environment and Climate Change Canada. 2017. Draft Screening Assessment Phthalate Substance Grouping. <http://www.ec.gc.ca/ese-ees/default.asp?lang=En&n=1E5B3C8F-1>. Last Accessed 10-10-2018.
21. European Chemicals Bureau. 2003. European Union Risk Assessment Report on 1,2-benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich and di-“isononyl” phthalate (DINP). <https://echa.europa.eu/documents/10162/83a55967-64a9-43cd-a0fa-d3f2d3c4938d>. Last Accessed 11-21-2018.
22. European Chemicals Agency (ECHA). 2013. Evaluation of new scientific evidence concerning DINP and DIDP in relation to entry 52 of Annex XVII to REACH Regulation (EC) No 1907/2006. August 2013. <https://echa.europa.eu/documents/10162/31b4067e-de40-4044-93e8-9c9ff1960715>. Last Accessed 11-21-2018.

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23. European Chemicals Agency (ECHA). 2013. Committee for Risk Assessment (RAC) Opinion on the ECHA’s draft review report on “Evaluation of new scientific evidence concerning DINP and DIDP in relation to entry 52 of Annex XVII to Regulation (EC) No 1907/2006 (REACH)” ECHA/RAC/A77-O-0000001412-86-10/F.  
[https://echa.europa.eu/documents/10162/13579/rac\\_opinion\\_dinp\\_didp\\_en.pdf/f54e95e0-c116-4f31-a52d-e6f680e3ebc6](https://echa.europa.eu/documents/10162/13579/rac_opinion_dinp_didp_en.pdf/f54e95e0-c116-4f31-a52d-e6f680e3ebc6)
24. Health Canada (1998) Updated. Risk Assessment on Diisononyl Phthalate in Vinyl Children's Products [HERO ID: 1987579](#)
25. U.S. EPA. 2010. Screening-level hazard characterization. Phthalate esters category. Last Accessed 12-07-2018.  
[https://hero.epa.gov/hero/index.cfm/reference/details/reference\\_id/3662948](https://hero.epa.gov/hero/index.cfm/reference/details/reference_id/3662948)
26. U.S. EPA. 2014. IRIS Toxicological Review of Diisononyl Phthalate (Dinp) (Preliminary Assessment Materials).  
[https://cfpub.epa.gov/ncea/iris\\_drafts/recordisplay.cfm?deid=237476](https://cfpub.epa.gov/ncea/iris_drafts/recordisplay.cfm?deid=237476). Last Accessed 11-27-2019.
27. U.S. National Toxicology Program. 2003. NTP-CERHR Monograph on the Potential Human Reproductive and Developmental Effects of Di-isononyl Phthalate (DINP). NIH Publication No. 03-4484.  
[https://ntp.niehs.nih.gov/ntp/ohat/phthalates/dinp/dinp\\_monograph\\_final.pdf](https://ntp.niehs.nih.gov/ntp/ohat/phthalates/dinp/dinp_monograph_final.pdf). Last Accessed 11-27-2018.

## Independent Party / Authoritative Assessments

The following references are hazard or risk assessments conducted by scientific organizations. These scientific organizations do not make law or regulation, but they are considered to be “authoritative bodies” whose work is highly regarded.

1. National Academies of Sciences, Engineering, and Medicine. 2017. Application of Systematic Review Methods in an Overall Strategy for Evaluating Low-Dose Toxicity from Endocrine Active Chemicals. Washington, DC: The National Academies Press.  
<https://doi.org/10.17226/24758>. Last Accessed 11-21-2018.
2. World Health Organization International Programme on Chemical Safety (WHO IPCS). 2002. Global assessment of the state-of-the-science of endocrine disruptors. WHO/PCS/EDC/02.2  
[https://www.who.int/ipcs/publications/new\\_issues/endocrine\\_disruptors/en/](https://www.who.int/ipcs/publications/new_issues/endocrine_disruptors/en/). [Last accessed: 11/12/18].

## Search Parameters and Results for Diisononyl Phthalate

### Search Terms and Databases

In order to provide the US EPA with all relevant information to conduct the manufacturer requested risk evaluation, an extensive literature was conducted for DINP.

## APPENDIX C – DIISONONYL PHTHALATE (DINP) REFERENCE LIST

The following sources and search terms were used to locate potentially relevant literature for diisononyl phthalate (DINP):

### **Search Terms**

diisononyl phthalate  
di-"isononyl" phthalate  
di-isononyl phthalate  
di (isononyl) phthalate  
Jayflex  
DINP  
28553-12-0  
68515-48-0

### **Sources and Dates Searched**

PubMed<sup>1</sup> (3/14/2019)  
Web of Science<sup>2</sup> (3/14/2019)  
Federal Register<sup>3</sup> (1/03/2019)  
EPA Health and Environmental Research Online (HERO)<sup>4</sup> (3/14/2019)

## **Search Results and EndNote**

The results for each search term and from each source were imported into EndNote, a reference management software available to the US EPA. An EndNote library entitled “EndNote DINP Final Reference Library 3-15-19” was created. A total of 1,568 references were located from each database:

- PubMed - 399
- Web of Science – 506
- Federal Register – 67
- HERO - 596

The EndNote software was used to remove 531 duplicate entries. Because different databases use slightly different formats, EndNote was unable to identify all duplicates automatically. The references were manually examined and 218 additional duplicate references were deleted; a reference with both an accession number and HERO ID number was retained over a reference with only an accession number. In total, 819 unique references were identified and can be found in the EndNote library and are listed below.

Citations in this document may have additional data in the corresponding EndNote library and the reader is encouraged to view the full EndNote library submitted to EPA’s Central Data Exchange (CDX) or use the HERO ID or Accession Number to locate the reference.

The EndNote library was submitted to the CDX along with the corresponding file entitled: “EndNote DINP Final Reference Library 3-15-19.”

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<sup>1</sup> PubMed: <https://www.ncbi.nlm.nih.gov/pubmed/>

<sup>2</sup> Web of Science: <https://apps.webofknowledge.com/>

<sup>3</sup> Federal Register: <https://www.federalregister.gov/>

<sup>4</sup> HERO: <https://hero.epa.gov/hero/index.cfm/content/home>

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A note on the EndNote Library: The information labeled “Accession Number” can be used to locate the reference in its respective database:

- The “Accession Number” can be used to locate the record in either the “Web of Science” database (numbers starting with WOS:) or PubMed (numbers without “WOS:” are the PMID number)..
- The information after “HERO ID” in the citations or in the “Label” column in the EndNote library can be used to search the HERO database.

### **HERO References**

The US EPA maintains an online database of scientific studies and references online entitled “Health and Environmental Research Online” (HERO). The database is searchable by the public and can be accessed at: <https://hero.epa.gov/hero/index.cfm/content/home>. The ability to export HERO search results as a .ris file and import the file into EndNote was not working at the time of the original filing. However, the USEPA has restored that function and it was used to import HERO references. The method used to import HERO search results into EndNote resulted in the loss of some metadata (e.g. HERO ID hyperlinks). The HERO ID hyperlinks allow the US EPA and the public to be directed to the full citation on the HERO website. Therefore, the HERO search results were extracted into an Excel spreadsheet and submitted to CDX with our manufacturer request for risk evaluation as an additional method to identify studies in possession of the US EPA and to determine whether a record is a technical report or peer reviewed literature.

The HERO database was searched for the search terms below using the “Find publications with exact phrase” function. The number of records recovered from each search term are indicated after the term in brackets ().

- diisononyl phthalate (302)
- di-"isononyl" phthalate (144)
- di-isononyl phthalate (144)
- di (isononyl) phthalate (144)
- Jayflex (2)
- DINP (408)
- 28553-12-0 (29)
- 68515-48-0 (25)

The resulting records were combined into a single Excel spreadsheet and HERO ID numbers were compared and any duplicate records were removed. There were a total of 592 unique HERO ID records located in the HERO database. Since the purpose of this table was make it easier for the US EPA to locate and obtain records in their possession, all unique HERO ID numbers were retained; there may be entries that appear to be duplicate (e.g. the same title and authors, but unique HERO ID numbers). The spreadsheet can be found in CDX as the Excel file labeled “HERO Results for DINP with Duplicate HERO ID Removed 3-15-19.”

## APPENDIX C – DIISONONYL PHTHALATE (DINP) REFERENCE LIST

### Full Search Results

1. (1982). THE ACUTE TOXICITY OF MRD-80-5 TO THE WATER FLEA DAPHNIA MAGNA STRAUS. (TSCATS/018004)UNION CARBIDE CORP ENVIR SERVS. Report. **HERO ID: 1325557.**
2. (1982). SALMONELLA/MAMMALIAN-MICROSOME PLATE INCORPORATION MUTAGENESIS ASSAY WITH INDEX. (TSCATS/018091)EG and G MASON RES INST. Report. **HERO ID: 1325479.**
3. (1982). ACTIVITY OF T1646 IN THE IN VITRO MAMMALIAN CELL TRANSFORMATION ASSAY IN THE ABSENCE OF EXOGENOUS METABOLIC ACTIVATION. (TSCATS/018088)MICROBIOLOGICAL ASSOC. Report. **HERO ID: 1325476.**
4. (1983). DERMAL DISPOSITION OF 14C-DI-ISONONYL PHTHALATE IN RATS FINAL REPORT WITH COVER LETTER. (TSCATS/020178)MIDWEST RES INST. Report. **HERO ID: 3072218.**
5. (1984). SINGLE AND REPEATED ORAL DOSE PHARMACOKINETICS OF 14C - LABELED DIISONONYL PHTHALATE WITH COVER LETTER. (TSCATS/020954)MIDWEST RES INST. Report. **HERO ID: 3072234.**
6. (1985). DATA TABLES:DI-ISONONYL PHTHALATE (DINP). (TSCATS/038219)BRITISH INDUS BIO RES ASSN. Report. **HERO ID: 1325458.**
7. (1986). EXECUTIVE SUMMARY: CHRONIC TOXICITY/CARCINOGENICITY STUDY OF DIISONONYL PHTHALATE (DINP) IN THE RAT WITH COVER LETTER DATED 042386. (TSCATS/200290)EXXON RES and ENVIR HEALTH DEPT. Report. **HERO ID: 1325445.**
8. (1986). DINP CHRONIC STUDY IN RATS: STATISTICAL METHODS AND RESULTS WITH COVER LETTER DATED 042386. (TSCATS/200312)EXXON MED and ENVIR HEALTH DIV. Report. **HERO ID: 1325462.**
9. (1986). CHRONIC FEEDING STUDY IN FISHER 344 RATS (26 WEEK INTERIM PATHOLOGY REPORT) WITH COVER LETTER DATED 042386. (TSCATS/200296)HAZLETON LABS AMER. Report. **HERO ID: 1325505.**
10. (1986). CHRONIC DIETARY STUDY IN FISHER 344 RATS (53-WEEK INTERIM SACRIFICE- HISTOPATHOLOGY REPORT) WITH COVER LETTER DATED 042386. (TSCATS/200300)HAZLETON LABS AMER. Report. **HERO ID: 1325507.**
11. (1986). CHRONIC FEEDING STUDY IN FISHER 344 RATS (78 WEEK INTERIM PATHOLOGY REPORT) WITH COVER LETTER DATED 042386. (TSCATS/200304)HAZLETON LABS AMER. Report. **HERO ID: 1325508.**
12. (1986). CHRONIC FEEDING STUDY IN FISHER 344 RATS (FINAL PATHOLOGY REPORT) WITH COVER LETTER DATED 042386. (TSCATS/200308)HAZLETON LABS AMER. Report. **HERO ID: 1325509.**
13. (1986). TWO YEAR FEEDING STUDY IN RATS (ELECTRON MICROSCOPY REPORT) WITH COVER LETTER DATED 042386. (TSCATS/200310)EXPERIMENTAL PATHOLOGY LABS. Report. **HERO ID: 1325510.**
14. (1986). A 21-DAY FEEDING STUDY OF DI-ISONONYL PHTHALATE TO RATS: EFFECTS ON THE LIVER AND LIVER LIPIDS. (TSCATS/201730)THE BRITISH INDUS BIO RES ASSN. Report. **HERO ID: 3072226.**
15. (1992). DI-ISONONYL PHTHALATE AND DI-ISODECYL PHTHALATE: DERMAL SENSITIZATION TEST IN THE GUINEA PIG (BUEHLER METHOD) (FINAL REPORTS) WITH COVER LETTER DATED 111292. (TSCATS/431115)EXXON BIOMEDICAL SCIENCES INC. Report. **HERO ID: 1325469.**
16. (1992). SUPPLEMENT: 13-WEEK SUBCHRONIC DIETARY ORAL TOXICITY STUDY WITH DI(ISONONYL)PHTHALATE IN MICE WITH COVER LETTER DATED 070692 AND ATTACHMENTS. (TSCATS/427250)AMER COLL OF VETERINARY PATHOL. Report. **HERO ID: 3072227.**
17. (1992). A 13-week subchronic dietary oral toxicity study in mice with di(isononyl)phthalate including ancillary hepatocellular proliferation and biochemical analyses. (Hazleton project HWA 2598-103)Report. **HERO ID: 1987581.**
18. (1992). SUPPLEMENTAL INFORMATION: 13-WEEK SUBCHRONIC DIETARY ORAL TOXICITY STUDY WITH DI(ISONONYL)PHTHALATE IN FISCHER 344 RATS (FINAL REPORT) WITH COVER LETTER DATED 052092. (TSCATS/421939)HAZLETON WASHINGTON INC. Report. **HERO ID: 1325466.**
19. (1993). INITIAL SUBMISSION: PRELIMINARY RESULTS OF SCREENING PRENATAL TOXICITY STUDY FOR 4 PHTHALATES BY LETTER FROM BASF CORP TO USEPA DATED 122293. (TSCATS/441115)MONSANTO ENVIR SCI SEC. Report. **HERO ID: 1325530.**
20. (1994). INITIAL SUBMISSION: LETTER FROM ARISTECH CHEM CORP TO USEPA REGARDING LIVER MASSES FOUND ON NECROPSY FOLLOWING 2-YEAR BIOASSAY OF DIISONONYL PHTHALATE IN THE RAT DATED 071394. (TSCATS/441444)Report. **HERO ID: 3072225.**
21. (1995). SUPPORT: LETTER FROM ARISTECH CHEM CORP TO USEPA REGARDING PRELIMINARY RESULTS OF DIETARY ONCOGENICITY STUDY OF DIISONONYL PHTHALATE IN RATS DATED 032095.



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- (TSCATS/441446)COVANCE LABORATORIES LTD. Report. **HERO ID: 1325482.**
22. (1995). SUPPORT: LETTER FROM ARISTECH CHEM CORP TO USEPA REGARDING LIVER MASSES FOUND ON RODENT DIETARY ONCOGENICITY TESTING OF DIISONONYL PHTHALATE DATED 011395. (TSCATS/441445)EXXON BIOMEDICAL SCIENCES INC. Report. **HERO ID: 1325470.**
23. (1995). SUPPORT: LETTER FROM ARISTECH CHEM CORP TO USEPA REGARDING INTERIM PATHOLOGY REPORT FROM 2-YEAR DIETARY ONCOGENICITY STUDY OF DIISONONYL PHTHALATE IN THE RAT DATED 041295. (TSCATS/441447)MICROBIOLOGICAL ASSOC. Report. **HERO ID: 1325454.**
24. (1996). SUPPORT: LETTER FROM ARISTECH CHEM CORP TO USEPA REPORTING ADDITIONAL DATA IN 2-YEAR DIETARY TESTING OF DI(ISONONYL)PHTHALATE (DINP) IN MICE, DATED 11/5/96. (TSCATS/444748)MIDWEST RES INST. Report. **HERO ID: 1325443.**
25. (1996). SUPPORT: LETTER FROM ARISTECH CHEM CORP TO USEPA SUBMITTING FOLLOW-UP DATA RE 2-YEAR DIETARY TESTING OF DI(ISONONYL)PHTHALATE (DINP) IN MICE, DATED 4/23/96. (TSCATS/444749)EXXON RES and ENVIR HEALTH DEPT. Report. **HERO ID: 1325449.**
26. (1998). SUPPORT: ONCOGENICITY STUDY IN MICE WITH DI(ISONONYL)PHTHALATE INCLUDING ANCILLARY HEPATOCELLULAR PROLIFERATION and BIOCHEMICAL ANALYSES WITH COVER LETTER DATED 11/18/1998. (TSCATS/453792)COVANCE LABORATORIES LTD. Report. **HERO ID: 1325481.**
27. (1998). SUPPORT: ONCOGENICITY STUDY IN RATS WITH DI(ISONONYL) PHTHALATE INCLUDING ANCILLARY HEPATOCELLULAR PROLIFERATION and BIOCHEMICAL ANALYSES WITH COVER LETTER DATED 09/08/1998. (TSCATS/453779)COVANCE LABORATORIES INC. Report. **HERO ID: 1325480.**
28. (2000). EPA proposes to add DINP category to EPCRA toxic chemicals list. *Hazardous Waste Consultant*, 18(7), B12-B14. **HERO ID: 1325832.**
29. (2000). EVALUATION OF 1J DI ISONONYL PHTHALATE IN THE IN VITRO TRANSFORMATION OF BALB/3T3 CELLS ASSAY FINAL REPORT. (TSCATS/038230)LITTON BIONETICS INC. Report. **HERO ID: 3072238.**
30. (2000). Center For The Evaluation Of Risks To Human reproduction: NTP-CERHR Expert Panel Report on Di-n-Octyl Phthalate. (NTPCERHRDINP00)National Toxicology Program Research Triangle Park(HHSNTP). Report. **HERO ID: 808683.**
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