

BULLETIN (04.01.23)

Pesticide Link to Human Disease

Links to human disease

U S government studies including those by the National Institute of Health, Environmental Health Prospective, Occupational Health Safety, Harvard Medical School, University of California Medical Schools at Davis and Los Angeles, Johns Hopkins University and many others, together provide hundreds of academic and science based studies involving thousands of participants all demonstrating *cause and effect* links between certain common neuro toxin and non-organic pesticides and cataclysmic human disease and suffering.

Most neuro toxins come from four (4) compounds and are marketed under more than fifteen hundred (1,500) brand names. Some of those names are included here. The law requires 'common names' to be located on pesticide labels. Every manufacturer is required by law to provide an SDS form, Safety Data Sheet. On the form the reader will find the chemical name. Most internet information sources will provide information that associates the neuro toxin's trade name to its chemical name.

The "Four Horsemen" to which more than 1,500 will be linked are;

- a. **Carbamates**
- b. **Organochlorine**
- c. **Organophosphate and**
- d. **Pymethrene** (pyrethroids if lab manufactured)

(The EPA required manufacturer's SDS forms are attached. These are particularly important because each is a description *in the manufacturer's own words*..... and what words they are!)

- ❖ Considered hazardous
- ❖ Acute toxicity
- ❖ Do Not breathe
- ❖ Use only outdoors.... but plenty used inside
- ❖ Very toxic to aquatic life
- ❖ Keep people and animals away.... but this isn't done either
- ❖ Danger, Poison, Corrosive
- ❖ Fatal if swallowed
- ❖ Can cause headache, nausea, vomiting, diarrhea, abdominal cramps, excessive sweating, salivation and tearing, constricted pupils, blurred vision, tightness in chest, weakness, muscle twitching and confusion
- ❖ Unconsciousness, convulsions, severe respiratory depression and death
- ❖ Immediate health hazard
- ❖ Highly flammable
- ❖ Keep away from food stuffs, beverages and feed
- ❖ Immediately remove contaminated clothing
- ❖ Causes damage to organs
- ❖ Toxic if inhaled
- ❖ Eye irritation, rinse thoroughly, can cause blindness

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Why Now?

Among the many blessings Americans enjoy is a diverse, abundant and inexpensive supply of delicious food. Pesticides have made a lot of this possible. Pesticides in agriculture have been used for nearly 100 years and residential pest control for more than 60 years. So why are so many sicknesses and diseases being linked to these "old friends?"

Over time natural selection has created strains of insects that are now resistant or immune to pesticides at the old levels. To get the same results and to continue to make their products relevant, manufacturers have made their products more powerful and as a result more dangerous to human beings. The "old friends" simply don't work anymore at the prior levels.

And to What Effect?

At the higher levels of concentration, some now greater by 10 times, health issues like autism, kidney, lung, heart and respiratory disease have begun to overtake us. **Consider 40 years ago, autism struck only 1 child in 3,000 but today 1 in 54!** (Little boys 5 times as often as little girls)

The problem has been magnified because the neuro toxins at the higher doses have been brought directly into our homes because so many neuro toxins are readily available on super market shelves and by the commercial residential pest control service companies.

Consider that the above numbers on the frequency of autism is measured where moms were *a mile* from the fields where the neuro toxins were being used.

While we can only image the statistics that describes what happens when these same dangerous poisons are brought into our homes, motel and hotel rooms, business and places of worship, all of us can testify to the results we have seen with our own eyes.

Are There Viable Alternatives?

A viable alternative is explained as a pesticide that is 100% non-toxic to human beings, of no harm to the environment and categorized as Generally Regarded As Safe, GRAS, by EPA and considered ORGANIC by the USDA. At the same time the formulas must provide effective pest control at reasonable costs.

YES.

Soybean oil, item 28 on EPA's GRAS list, formulated with a proprietary process has been shown effective when properly used against a wide variety of insect pests.

First offered in March 2010 as a means of elimination and prevention for bed bugs, research has shown that variations of the original formula are also effective against, carpet beetles, ants, roaches, fleas, ticks, silverfish, millipedes, centipedes, mosquitos and other flying insects and others that are morphologically linked.

A one year field trial was the subject of a December 2012 article appearing in *Pest Control Technology* magazine. The independent report explained that the test conducted at a four story motor lodge obtained immediate control. Twenty rooms were treated, immediate elimination was obtained and monthly periodic

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checks over the next twelve (12) months showed no material re-infestation. In the thirteenth (13th) month, bed bugs released into a room treated twelve (12) month previous, ALL died. (A copy of the article and the monthly audits is attached.)

Mode of Operation

The formula is not a neuro toxin. It acts as an emulsifier and kills by dehydration. This is considered a “mechanical” kill and it is thought highly unlikely (science never likes to say “never”) that resistance or immunity can develop as the kill occurs when an insect “body part” is removed.

The formula emulsifies the insect’s waxy outer layer. Scanning Electron Microscope photos (1500X) show that where ever the formula contacts the waxy outer layer, it has emulsified and evaporated. This requires 25 to 30 seconds. Where the waxy layer has been removed, the insect’s inner fluids evaporate.

The evaporation continues until the insect has become a carbonized shell. It has died by dehydration and because it has died by dehydration no pathogen laden carcass remains.

Human beings and other animals do not have “waxy outer” layers and therefore are not subject to the same effects. Likewise the environment is not damaged as the formulation is organic.

Formulas for certain insects that are more difficult such as bed bugs and cock roaches also have included in their formulas residual materials that encapsulate the active ingredient. When new generations emerge from inaccessible

well-hidden eggs, they crawl. Their motion disturbs the residual leave behind particles. The disturbance causes the encapsulated formula to spill out and when it comes into contact with the nymph or re-introduced adult, the emulsification process begins.

The formulas, while 100% non-toxic, organic and of no harm to the environment **have no odor and do not stain.**

CAUTION

Caution is advised in that all formulas are not the same and depending on the formula’s intended target, the proper formula should be used. This is particularly so when used to control certain agricultural plants.

Reasonable Action

In medicine the first rule is often said to be, “first do no harm.”

We are not sure that dictum can be employed in the world of pest control. But it is certainly reasonable that before a pest control formula is used, a few minutes should be taken to find out whether or not a non-toxic formula is available.

It is also reasonable to consider cost. Today most alternate formulas are on a par and sometimes lower in cost than some neuro toxins.

It should also be remembered that neuro toxins don’t stay where they are used. Whatever a person may be using for their own convenience is going to have an effect on their neighbors. Recall the “Charge Report” <https://ehp.niehs.nih.gov/doi/10.1289/ehp.13070>

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Autism was reported 15 times more likely to affect a pregnant mother when application was 1.5 kilometers away (one mile).

Being informed and education is most often one of the first and most important steps in providing safety to yourself and your family.

For this reason, in addition to checking for viable non-toxic organic alternatives, make it a practice to do an internet search for the SDS form for the products being used in and around your home, place of business and the public places you and your children go.

Ask that non-toxic organic formulas be used where ever possible.

Questions help you. Ask them.

Some Links to Government and Academic Studies:

<https://ehp.niehs.nih.gov/doi/10.1289/ehp.1307044>

“Charge Report” among the most famous as it provided the first well substantiated link between pesticide neuro toxins, naming the Four Horseman, and children’s autism and other sicknesses.

<https://www.bmj.com/content/364/bmj.1962>

2019 follow up study neuro toxins and children’s autism

<https://occhealth.msu.edu/files/attachment/122/original/CarbamateMichiganBoth.pdf>

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<https://impactful.ninja/worst-pesticides-for-the-environment/#:~:text=The%20worst%20pesticides%20include%20Atrazine,toxicity%20to%20bees%2F%20ecosystem%20services>.

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Tumors and cancer linked to pesticide proximity

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Harvard study links pesticides to childhood cancers

<https://www.bcpp.org/resource/pesticides-other/>

Breast cancer in childhood development linked to pesticides

<https://acsjournals.onlinelibrary.wiley.com/doi/10.3322/caac.21170>

Pesticides through the skin, absorbed where touched after application linked to cancer

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3881124/#:~:text=A%20summary%20of%20the%20adverse,even%20lung%20cancer%20%5B10%5D>.

Pesticides linked to asthma, bronchitis, and COPD

<https://www.nih.gov/news-events/news-releases/nih-study-finds-two-pesticides-associated-parkinsons-disease>

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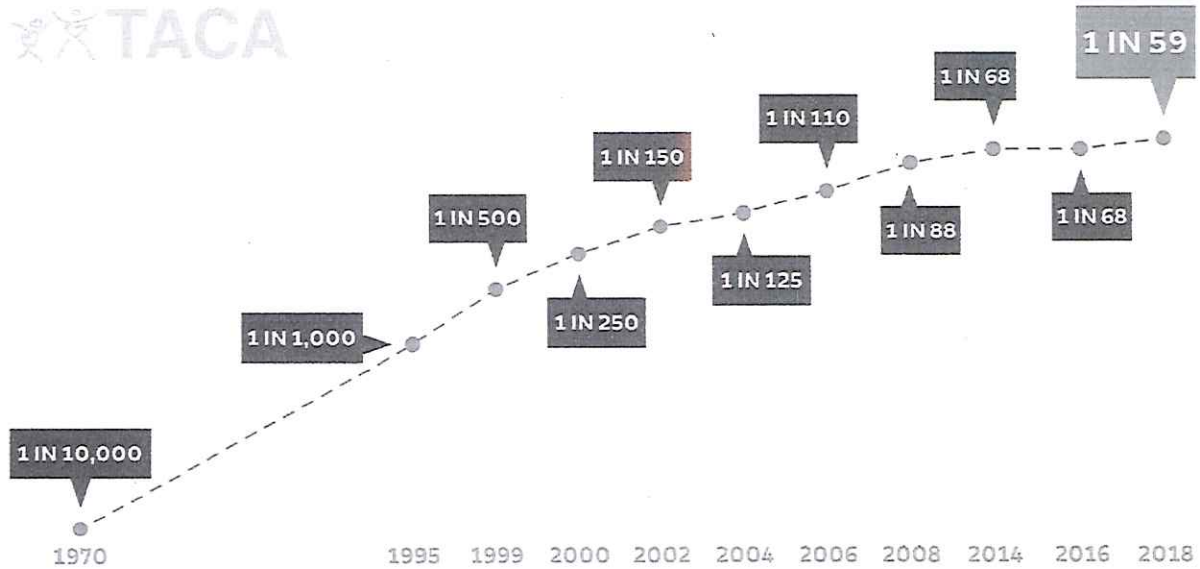
Parkinson's disease linked to pesticides

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5166613/>

Pesticides linked to kidney disease

There are hundreds of links to studies explaining that pesticides are linked to and cause many human disease and life time disability.

AUTISM STATISTICS & COST



Here Are The Facts

- Autism prevalence figures are growing
- The Centers for Disease Control and Prevention (CDC) estimates autism's prevalence as 1 in 59 children in the United States.
- An estimated 1 out of 42 boys and 1 in 189 girls are diagnosed with autism in the United States.
- Boys are 4.5 times more likely than girls to have autism
- ASD is estimated to affect more than 3 million individuals in the U.S.
- Autism is the fastest-growing serious developmental disability in the U.S.
- Autism costs the nation over \$268 billion per year, a figure expected to significantly increase in the next decade
- Autism receives approximately 5% of the government research funding of many less prevalent childhood diseases
- While there is no medical detection or known cure for autism, thousands of children have shown significant improvement resulting from early diagnosis and use of effective interventions
- The increase in prevalence rate cannot be explained by better diagnosis alone. Some have suggested that autism is just being better diagnosed today versus years ago and that many cases of intellectual disability are now being coded as autism. This would also assume that the experts diagnosing autism before did not know what they were doing. This is NOT TRUE. Autism is the only disorder dramatically on the rise while mental retardation or intellectual disability, Down syndrome and cystic fibrosis

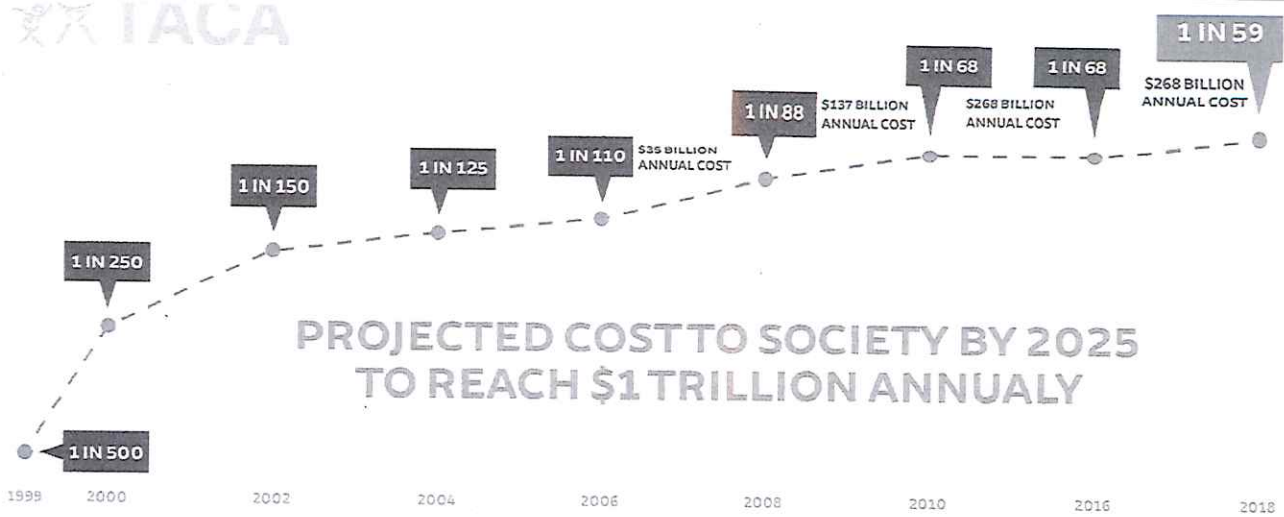
remain relatively the same. Learn more
(http://www.ucdmc.ucdavis.edu/welcome/features/20090218_autism_environment/)

- While the cause of autism remains unclear, current studies show genetics and environment both play a role in the autism prevalence increase. (Genetic Heritability and Shared Environmental Factors Among Twin Pairs With Autism Joachim Hallmayer, MD; et al - Arch Gen Psychiatry. Published online July 4, 2011. doi:10.1001/archgenpsychiatry.2011.76

Autism Occurrence Articles And Reports



- Autism rate continues to rise (4 year-old children survey). (<https://tacanowblog.com/2019/05/01/autism-rate-continues-to-rise/>) (<https://tacanowblog.com/2019/05/01/autism-rate-continues-to-rise/>) (<https://tacanowblog.com/2019/05/01/autism-rate-continues-to-rise/>) May 2019
- 2018 parent survey: 1 in 40 US children have autism. (<https://tacanowblog.com/2018/11/29/new-study-reaffirms-autism-epidemic-continues-to-affect-1-in-40-kids/>) November 2018
- Autism rate soars to 1 in 59 U.S. Children (April 2018) (<https://tacanow.org/news/autism-prevalence-now-1-in-59-rate-increases-15-in-2-years/>)
- New 2016 parent survey: 1 in 36 US children have autism, November 2017 (<https://tacanowblog.com/2017/12/05/new-report-shows-1-in-36-u-s-children-has-an-autism-diagnosis-now-will-people-care/>)
- 2014 Parent Survey: 1 in 45 US Children have autism. (<http://www.cdc.gov/nchs/data/nhsr/nhsr087.pdf>) November 2015
- Revised Estimates of the Cost of the Autism Epidemic (<http://sanfrancisco.cbslocal.com/2015/07/28/autism-spectrum-disorder-asd-cost-caring-uc-davis-study/>) (July 2015)
- New Rate of Autism 1 in 68 (<http://www.tacanow.org/news/cdc-releases-autism-prevalence/>) (March 2014)
- The complete CDC report "Prevalence of Autism Spectrum Disorder Among Children Aged 8 Years — Autism and Developmental Disabilities Monitoring Network, 11 Sites, United States, 2010" dated March 28, 2014 (<http://www.tacanow.org/wp-content/uploads/2012/04/ADDM-MMWR-03-38-2014.pdf>)
- New Parent survey shows autism affects 1 in every 50 U.S. children. Will this new number be used by the CDC? (<http://www.tacanow.org/news/1-in-88-or-1-in-50-which-autism-rate-will-prevail/>) (March 2013)
- Pediatrics Reports— One in 91 Children in the United States Has Autism (<http://www.tacanow.org/family-resources/one-in-91-children-in-the-united-states-has-autism/>) (October 2009)
- CDC: One in 110 American Children has Autism (<http://www.tacanow.org/family-resources/cdc-one-in-110-american-children-has-autism/>) (December 2009)



AUTISM PREVALENCE AS REPORT BY CDC - ADDM REPORT: 2000 - 2014

Birth Year	Survey Year	Year Reported	Autism Rate
2006	2014	2018	1 in 59
2004	2012	2016	1 in 68
2002	2010	2014	1 in 68
2000	2008	2012	1 in 88
1998	2006	2009	1 in 110
1996	2004	2009	1 in 125
1994	2002	2007	1 in 150
1992	2000	2007	1 in 150

NOTES: ADDM = Autism and Developmental Disabilities Monitoring Network
Source: www.cdc.gov

[Who We Are \(https://tacanow.org/who-we-are/\)](https://tacanow.org/who-we-are/)

[Ways To Help \(https://tacanow.org/ways-to-help/\)](https://tacanow.org/ways-to-help/)

[Resources \(http://tacanow.org/family-resources/\)](http://tacanow.org/family-resources/)

[TACA PRIVACY POLICY AND DONOR PRIVACY STATEMENT \(HTTPS://TACANOW.ORG/PRIVACY/\)](https://TACANOW.ORG/PRIVACY/)

[DISCLAIMER \(HTTPS://TACANOW.ORG/DISCLAIMER/\)](https://TACANOW.ORG/DISCLAIMER/)

[JOB OPPORTUNITIES \(HTTPS://TACANOW.ORG/JOB-OPPORTUNITIES/\)](https://TACANOW.ORG/JOB-OPPORTUNITIES/)

[\(HTTPS://WWW.FACEBOOK.COM/THEAUTISMCOMMUNITYINACTION/\)](https://www.facebook.com/theautismcommunityinaction/)[\(HTTPS://WWW.INSTAGRAM.COM/TACANOW/\)](https://www.instagram.com/tacanow/)[\(HTTPS://TWITTER.COM/TACAFOUNDATION/\)](https://twitter.com/tacaFOUNDATION/)[/HTTPS://WWW.YOUTUBE.COM/US](https://www.youtube.com/us)

BULLETIN (01.14.25)

89.6% IS THE AMOUNT OF PESTICIDE REMAINING 122 DAYS AFTER APPLICATION

89.6% of initial concentration, that's the level of pesticide, found remaining after **122** days from treatment. *Journal of Exposure Science & Environmental Epidemiology*. 29 March 2019

Can this be fixed? Yes, decontamination and detoxification is actually easy and inexpensive using ACD, *1st Place Science's* aqueous chlorine dioxide. Mist spray and leave to dry. You're done.

Is residue dangerous? What do you think? What will government policy makers think?

Will toxic pesticide use be outlawed?

Will toxic pesticide be permitted for agriculture but not residential or commercial use?

Will special taxes be assessed for those that use toxic chemicals to defray the health and environmental costs?

All or any combination of the above could be on the horizon.

But no one will consider **limiting or banning non-toxic** pest control products especially when they've been proven to work.

And those that decontaminate and detoxify and then use Toxic Free formulas as part of their professional protocols will be the **heroes that everyone wants to hire!**

In the meantime, here's what manufacturer's say about their own toxic products. (source: SDS forms)

- ❖ Considered hazardous
- ❖ Acute toxicity
- ❖ Do Not breathe
- ❖ Use only outdoors.... (*but plenty used inside*)
- ❖ Very toxic to aquatic life
- ❖ Keep people and animals away....(*but this isn't done either*)
- ❖ Danger, Poison, Corrosive
- ❖ Fatal if swallowed
- ❖ Can cause headache, nausea, vomiting, diarrhea, abdominal cramps, excessive sweating, salivation and tearing,
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And here's what the academic and scientific community says about what these hazards DO to people.

<https://ehp.niehs.nih.gov/doi/10.1289/ehp.1307044>

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“...against doing good there is no law.”

Decontamination and Detoxification with the application of 1st Place Science’s aqueous chlorine dioxide removes up to 80 % of residue pesticides. It leaves no toxic residue because mode of operation is completed by the mechanical molecular destruction of the pesticide molecules.

What is left is a residue that harmlessly evaporates *Science Direct* reports in “Food Control Volume 40, June 2014, Pages 106-112.

Further studies show that **pro-active Decontamination and Detoxification is superior to allowing natural decomposition.**

Studies show that “**some by-products are more toxic than their parent components.**” Fenner, K., Canonica, S., Wackett, L.P. and Elsner, M. Evaluating pesticide degradation in the environment: blind spots and emerging opportunities. *Science* 2013, 341 (6147), 752-758. DOI: 10.1126/science. 1236281.

Here’s a NEW IDEA.

21st Century pest control protocol is,

First, decontaminate and detoxify by misting the target areas. A single gallon will treat 5,000 square feet.

Second, for pest control use broad spectrum Toxic Free EPA FIFRA 25(b) pesticide.

Because it is a mechanical killer the efficacy will remain consistent.

Third, well served **Happy and Safe** customers.