



# TRI-Chemical Hazard Information Profile System (TRI-CHIP)

**A searchable data base that readily provides toxicity data on TRI chemicals from multiple sources including IRIS, OPP, ATSDR, NTP, IARC and the California Environmental Protection Agency. TRI-CHIP can provide subsets of TRI chemicals based upon quantitative toxicity values or adverse effects.**



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## KEY FEATURES

- **Microsoft Access based (with automatic download of MS Access 2007 freeware when needed)**
- **User-friendly design (no MS Access training needed)**
- **Searchable with built in queries that allow for custom data analysis**
- **User-friendly reports are easily generated**
- **Capable of exporting a list of chemicals of interest directly into TRI.NET**
- **Hot-links for each chemical direct you to the information source's web-site for chemical specific information**



# TRI-Chemical Hazard Information Profile System (TRI-CHIP)

TRI-CHIP front end screen



# TRI-Chemical Hazard Information Profile System (TRI-CHIP)

The TRI-CHIP Search screen allows the user to search for chemical toxicity information across multiple information sources in seconds. Toxicity information can be readily compared from one information source to the next.

**SEARCH**

Select a Source: IRIS | OPP | ATSDR Inhalation | ATSDR Oral | CalEPA | NTP | IARC

Select Chemicals of Interest by

Chem. Name

CAS Reg. No.

TRI Category

Category members are limited to those chemicals listed by TRI under the specific category.

**IRIS Data Search Criteria**

RfD Data		RfC Data		Cancer Data	
RfD (mg/kg/day)	<input type="text"/>	RfC (mg/m3)	<input type="text"/>	Oral Slope Factor [risk per (mg/kg/day)]	<input type="text"/>
RfD NOAEL (mg/kg/day)	<input type="text"/>	RfC NOAEL (mg/m3)	<input type="text"/>	Inhalation Unit Risk [risk per (ug/m3)]	<input type="text"/>
RfD LOAEL (mg/kg/day)	<input type="text"/>	RfC LOAEL (mg/m3)	<input type="text"/>	Drinking Water Unit Risk [risk per (ug/L)]	<input type="text"/>
RfD BMDL (mg/kg/day)	<input type="text"/>	RfC BMCL (mg/m3)	<input type="text"/>		

Critical effect or Cancer Target

Limit search to records with values for:

Export to TRI.NET

Now showing IRIS data.

Limit to List	CAS Registry Number	TRI Category	Chemical (click any chemical name for links)	RfD (mg/kg/day)	RfD NOAEL (mg/kg/day)	RfD LOAEL (mg/kg/day)	RfD BMDL (mg/kg/day)	RfC (mg/m3)	RfC NOAEL (mg/m3)	RfC LOAEL (mg/m3)	RfC BMCL (mg/m3)	Oral S Factor per (mg/kg)
<input checked="" type="checkbox"/>	50-00-0		<a href="#">FORMALDEHYDE</a>	0.2	15	82						
<input type="checkbox"/>	50-32-8	N590	<a href="#">BENZODIAPYRENE</a>									
<input type="checkbox"/>	51-03-6		<a href="#">PIPERONYL BUTOXIDE</a>									
<input type="checkbox"/>	51-21-8		<a href="#">FLUOROURACIL (5-FLUOROURACIL)</a>									
<input type="checkbox"/>	51-28-5		<a href="#">2,4-DINITROPHENOL</a>	0.002				2				
<input type="checkbox"/>	51-75-2		<a href="#">NITROGEN MUSTARD</a>									

Form View

Windows taskbar: magicJack, 2 Windo..., StorageSy..., 4 Micros..., John Scale..., TRI-CHIP -...

4:43 PM

Search by Source Screen



# TRI-Chemical Hazard Information Profile System (TRI-CHIP)

The TRI-CHIP Effect Search screen allows users the option to identify all TRI chemicals that have a specific critical adverse health effect associated with exposure to that chemical.

**EFFECT SEARCH**

Cancer | Non-cancer oral and inhalation | Non-cancer oral | Non-cancer inhalation

Critical effect category as reported:

Select effect category of interest \*

- Body weight
- Cardiovascular
- Dermal
- Developmental
- Endocrine System
- Gastrointestinal
- Hematological
- Hepatic**
- Immunological and Lymphoreticuli
- Metabolic
- Musculoskeletal
- Neurological
- Ocular
- Other Systemic
- Renal

body wt  
CVS  
dermal  
develop  
endo  
GI  
hemato  
hepatic  
immuno and lymph  
metab  
musculoskel  
neuro  
ocular  
other  
renal

Limit records to chemicals assessed under the following exposures:

Acute  
 Intermediate (ATSDR only)  
 Chronic non-cancer

reported by TRI for this effect means that this effect e.g. RfC, MRL, and REL.

Report  
Source Search

TRI	IRIS	ATSDR	CalEPA			
Chronic	Chronic	Acute	Intermediate	Chronic	Acute	Chronic
	X	X	X	X	X	X
	X					
X						
	X		X	X	X	X
	X					
57-14-7	1,1-DIMETHYL HYDRAZINE		X			
57-74-9	CHLORDANE		X	X		
58-89-9	LINDANE	X				

Form View

magiJack | 2 Windo... | StorageSy... | 4 Micros... | John Scale... | TRI-CHIP | 4:45 PM

Effect Search Screen



# TRI-Chemical Hazard Information Profile System (TRI-CHIP)



TRI-CHIP TOXICITY PROFILE

**FORMALDEHYDE**  
CAS Registry No 50-00-0

TRI Listing Criteria: Not formally assessed by the TRI program

Oral Non-Cancer Assessments	IRIS (chronic) mg/kg/day	OPP (acute) mg/kg/day	OPP (chronic) mg/kg/day	ATSDR (acute) mg/kg/day	ATSDR (intermediate) mg/kg/day	ATSDR (chronic) mg/kg/day
RfD/MRL	RfD: 0.2	RfD:	RfD:	MRL:	MRL: 0.3	MRL: 0.2
Critical Effect Categories	body wt, GI				GI	GI
Experimental Values	NOAEL: 15 LOAEL: 82 BMCL:	NOAEL: LOAEL: BMCL:	NOAEL: LOAEL: BMCL:	NOAEL: LOAEL: POD:	NOAEL: 25 LOAEL: 125 POD: 25	NOAEL: 15 LOAEL: 82 POD: 15
Species	Rat				Rat	Rat
Date	1990				7/1/1999	7/1/1999
Inhalation Non-Cancer Assessments	IRIS (chronic) mg/m3	ATSDR (acute) mg/m3	ATSDR (intermediate) mg/m3	ATSDR (chronic) mg/m3	CAL EPA (acute) ug/m3	CAL EPA (chronic) ug/m3
RfC/MRL/REL	RfC:	MRL: 0.05	MRL: 0.04	MRL: 0.01	REL: 94	REL: 3
Critical Effect Categories		respir	respir	respir	ocular	ocular, respir
Experimental Values	NOAEL: LOAEL: BMCL:	NOAEL: LOAEL: 0.4 POD: 0.4	NOAEL: 0.98 LOAEL: 2.95 POD: 0.98	NOAEL: LOAEL: 0.24 POD: 0.24		
Species		Human	Monkey	Human	human	
Date		7/1/1999	7/1/1999	7/1/1999		

*Draft, Not for Public Distribution.*

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## Custom Chemical Profile Reports



# TRI-Chemical Hazard Information Profile System (TRI-CHIP)

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