

**Study Number:** C20712-03  
**Test Type:** TOX  
**Route:** Dosing in Feed  
**Species/Strain:** Rat/Harlan Sprague Dawley

**PA48: Summary of Tissue Concentration**  
**Test Compound:** Tris(Chloropropyl)phosphate  
**CAS Number:** 13674-84-5

**Date Report Requested:** 08/31/2021  
**Time Report Requested:** 10:03:27  
**Lab:** Battelle

**Study Number:** C20712-03  
**Study Gender:** Both  
**PWG Approval Date:** See web page for date of PWG Approval  
**Version:** v1.3.1  
**Stat Version:** S

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		<b>F0 Female</b>			
<b>Phase</b>	<b>Dose (ppm)</b>	<b>0</b>	<b>2500</b>	<b>5000</b>	<b>10000</b>
LD 28	Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Adult Plasma (ng/ml)	BD	BD	BD	1.68 ± 0.971 (5)
LD 28	Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Male Pup Plasma (ng/ml)	BD	BD	2.94 ± 0.810 (5)	9.88 ± 2.93 (5)
LD 28	Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Female Pup Plasma (ng/ml)	BD	1.78 ± 0.921 (5)	3.45 ± 0.739 (5)	9.23 ± 1.42 (5)

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**F0 Female**

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<b>Phase</b>	<b>Dose (ppm)</b>	<b>20000</b>
LD 28	Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Adult Plasma (ng/ml)	12.9 ± 1.84 (5)
LD 28	Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Male Pup Plasma (ng/ml)	33.5 ± 6.04 (5)
LD 28	Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Female Pup Plasma (ng/ml)	41.9 ± 12.2 (5)

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		<b>F1 Male: F1 Special Males</b>			
<b>Phase</b>	<b>Dose (ppm)</b>	<b>0</b>	<b>2500</b>	<b>5000</b>	<b>10000</b>
SD 93	Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Adult Plasma (ng/ml)	3.66 ± 1.17 (10) **	17.6 ± 4.34 (10) **	13.6 ± 1.72 (10) **	38.0 ± 6.27 (9) **
SD 213	Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Adult Plasma (ng/ml)	BD	3.43 ± 1.53 (10)	18.7 ± 2.40 (10)	70.9 ± 18.4 (9)
SD 367	Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Adult Plasma (ng/ml)	3.77 ± 0.382 (9) **	5.48 ± 0.248 (10) **	28.2 ± 16.7 (10) **	31.7 ± 9.40 (9) **
SD 570	Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Adult Plasma (ng/ml)	0.884 ± 0.207 (8) **	4.46 ± 0.417 (9) **	11.2 ± 1.75 (9) **	13.1 ± 1.02 (9) **

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**F1 Male: F1 Special Males**

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<b>Phase</b>	<b>Dose (ppm)</b>	<b>20000</b>
SD 93	Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Adult Plasma (ng/ml)	74.5 ± 7.65 (10) **
SD 213	Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Adult Plasma (ng/ml)	41.2 ± 4.40 (10)
SD 367	Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Adult Plasma (ng/ml)	31.9 ± 5.95 (9) **
SD 570	Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Adult Plasma (ng/ml)	31.6 ± 7.49 (8) **

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Phase	Dose (ppm)	F1 Female: F1 Special Females			
		0	2500	5000	10000
SD 93	Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Adult Plasma (ng/ml)	8.60 ± 3.41 (10) **	39.3 ± 18.6 (10) **	30.2 ± 5.61 (10) **	50.0 ± 2.68 (9) **
SD 213	Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Adult Plasma (ng/ml)	BD	8.31 ± 4.99 (10)	6.84 ± 2.81 (10)	19.5 ± 3.93 (9)
SD 367	Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Adult Plasma (ng/ml)	2.78 ± 0.437 (10) **	17.3 ± 4.79 (9) **	28.4 ± 7.04 (10) **	20.1 ± 3.79 (9) **
SD 570	Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Adult Plasma (ng/ml)	1.40 ± 0.438 (8) **	7.75 ± 2.17 (9) **	15.9 ± 4.17 (7) **	23.0 ± 6.35 (8) **

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**F1 Female: F1 Special Females**

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<b>Phase</b>	<b>Dose (ppm)</b>	<b>20000</b>
SD 93	Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Adult Plasma (ng/ml)	78.4 ± 10.9 (10) **
SD 213	Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Adult Plasma (ng/ml)	7.21 ± 1.51 (10)
SD 367	Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Adult Plasma (ng/ml)	76.1 ± 35.1 (10) **
SD 570	Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Adult Plasma (ng/ml)	17.4 ± 2.72 (10) **

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## LEGEND

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Data are displayed as mean  $\pm$  SEM (N) unless otherwise noted.

LD - Lactation Day; SD - Study Day

Tris(1-chloro-2-propyl)phosphate (TCIPP) is the major constituent of the tris(chloropropyl)phosphate test article.

Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Male Pup Plasma and Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Female Pup Plasma for the phase of LD 28 is for the F1 pups during lactation.

Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Adult Plasma for phase of LD 28 is for the F0 dams.

If over 20% of the animals in a group are above the limit of detection, then 1/2 the limit of detection value is substituted for values that are below the limit of detection.

When the control group did not have over 20% of its values above the limit of detection, no mean or standard error were calculated; no statistical analysis was done for the endpoint.

Statistical analysis was performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests.

Statistical significance for the control group indicates a significant trend test

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

\* Statistically significant at  $P \leq 0.05$

\*\* Statistically significant at  $P \leq 0.01$

BD - Group did not have over 20% of its values above the limit of detection.

The study days for the F1 animals were recorded incorrectly in the original data file for the study day 213 and study day 570 periods. Study day 213 is actually study day 185 and study day 570 is actually study day 555.

Decrease in N for Tris(1-chloro-2-propyl)phosphate (TCIPP) Concentration in Adult Plasma for the F1 Special Males in the 10000 ppm group for study days 93, 213, and 367 is due to the value for one animal being excluded because it was an outlier.

**\*\* END OF REPORT \*\***