Experiment Number: **F64536**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Inhalation**
Species/Strain: **Rat/F344/NTac**

G04: In Vivo Micronucleus Summary Data
Test Compound: **Metal Working Fluids: CIMSTAR 3800**
CAS Number: **CIMSTAR3800**

Date Report Requested: **09/21/2018**
Time Report Requested: **17:02:41**

NTP Study Number:	F64536
Study Duration:	13 Weeks
Study Methodology:	Flow Cytometry
Male Study Result:	Negative
Female Study Result:	Negative

Experiment Number: **F64536**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Inhalation**

Species/Strain: **Rat/F344/NTac**

G04: In Vivo Micronucleus Summary Data

Test Compound: **Metal Working Fluids: CIMSTAR 3800**

CAS Number: **CIMSTAR3800**

Date Report Requested: **09/21/2018**

Time Report Requested: **17:02:41**

Tissue: Blood; Sex: Male; Number of Treatments: 91; Time interval between final treatment and cell sampling: 24 h

		MN PCE/1000			MN NCE/1000		% PCE	
Dose (mg/m3)	**N**	**Mean ± SEM**	**p-Value**	**N**	**Mean ± SEM**	**p-Value**	**Mean ± SEM**	**p-Value**
Vehicle Control[1]	6	0.317 ± 0.059		6	0.080 ± 0.025		1.829 ± 0.117	
25.0	5	0.390 ± 0.053	0.4618	5	0.138 ± 0.028	0.7029	1.788 ± 0.144	1.0000
50.0	5	0.420 ± 0.025	0.5440	5	0.119 ± 0.010	0.7029	1.973 ± 0.114	0.6911
100.0	5	0.280 ± 0.051	0.5801	5	0.027 ± 0.002	1.0000	1.888 ± 0.140	0.7333
200.0	5	0.210 ± 0.051	0.5982	5	0.041 ± 0.016	1.0000	2.130 ± 0.052	0.3095
400.0	5	0.320 ± 0.073	0.6106	5	0.048 ± 0.012	1.0000	1.993 ± 0.191	0.3151
Trend p-Value		0.8491			0.9929		0.2440	

Trial Summary: Negative

Experiment Number: **F64536**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Inhalation**

Species/Strain: **Rat/F344/NTac**

G04: In Vivo Micronucleus Summary Data

Test Compound: **Metal Working Fluids: CIMSTAR 3800**

CAS Number: **CIMSTAR3800**

Date Report Requested: **09/21/2018**

Time Report Requested: **17:02:41**

Tissue: Blood; Sex: Female; Number of Treatments: 91; Time interval between final treatment and cell sampling: 24 h

		MN PCE/1000			MN NCE/1000		% PCE	
Dose (mg/m3)	**N**	**Mean ± SEM**	**p-Value**	**N**	**Mean ± SEM**	**p-Value**	**Mean ± SEM**	**p-Value**
Vehicle Control[1]	5	0.300 ± 0.069		5	0.058 ± 0.019		0.931 ± 0.067	
25.0	5	0.320 ± 0.101	0.7841	5	0.037 ± 0.012	0.9517	0.932 ± 0.060	0.9757
50.0	5	0.280 ± 0.064	0.8602	5	0.017 ± 0.004	0.9792	0.994 ± 0.049	0.8458
100.0	5	0.190 ± 0.033	0.8866	5	0.018 ± 0.005	0.9857	0.944 ± 0.090	0.8880
200.0	5	0.170 ± 0.030	0.8985	5	0.062 ± 0.008	0.5357	1.019 ± 0.045	0.4923
400.0	5	0.120 ± 0.044	0.9080	5	0.081 ± 0.010	0.1019	1.123 ± 0.111	0.1386
Trend p-Value		0.9952			0.0027 *		0.0491	

Trial Summary: Negative

LEGEND

MN = micronucleated, PCE = polychromatic erythrocyte, NCE = normochromatic erythrocyte
CAS Number = Chemical Abstracts Service registry number
N = Number of subjects
Values given as Mean or Mean ± Standard Error Mean
Pairwise comparison with the control group; values are significant at P <= 0.025 by Williams or Dunn's test
Dose-related trend; significant at P <= 0.025 by linear regression or Jonckheere's test
* Statistically significant pairwise or trend test
1: Vehicle Control: Air

** END OF REPORT **