

**Experiment Number:** 20515 - 03  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/Wistar Han

**E05: CLINICAL OBSERVATIONS SUMMARY**

Metal working fluids (CIMSTAR 3800)

**CAS Number:** CIMSTAR3800

**Date Report Requested:** 02/19/2013

**Time Report Requested:** 13:44:49

**First Dose M/F:** 04/14/08 / 04/14/08

**Lab:** BNW

**NTP Study Number:** C20515  
**Lock Date:** 01/12/2011  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.1.1\_001  
**PWG Approval Date:** NONE

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Date Report Requested: 02/19/2013  
 Time Report Requested: 13:44:49  
 First Dose M/F: 04/14/08 / 04/14/08  
 Lab: BNW

SEX: MALE		WEEK: 105							
OBSERVATION	Control		10 mg/m3		30 mg/m3		100 mg/m3		
	CURRENT*	TOTAL+	CURRENT	TOTAL	CURRENT	TOTAL	CURRENT	TOTAL	
Abnormal Breathing	0 / 0	0/50	0 / 0	0/50	0 / 0	0/50	0 / 0	2 / 50 DAY 395	
Diarrhea	0 / 0	1 / 50 DAY 535	0 / 0	0/50	0 / 0	0/50	0 / 0	0/50	
Excitability	0 / 0	1 / 50 DAY 535	0 / 0	0/50	0 / 0	0/50	0 / 0	0/50	
Eye Abnormality	0 / 0	0/50	0 / 0	1 / 50 DAY 143	0 / 0	2 / 50 DAY 703	0 / 0	0/50	
Head Tilt	0 / 0	1 / 50 DAY 591	0 / 0	0/50	0 / 0	0/50	0 / 0	0/50	
Impaired Gait	0 / 0	0/50	0 / 0	1 / 50 DAY 563	0 / 0	0/50	0 / 0	1 / 50 DAY 675	
Lethargic	0 / 0	2 / 50 DAY 535	0 / 0	1 / 50 DAY 619	0 / 0	0/50	0 / 0	2 / 50 DAY 199	
Mass Appendage	0 / 0	2 / 50 DAY 451	0 / 0	2 / 50 DAY 535	0 / 0	1 / 50 DAY 563	0 / 0	0/50	

\* ANIMALS WITH OBSERVATION IN CURRENT PERIOD / TOTAL ANIMALS OBSERVED IN CURRENT PERIOD (WITHIN 30 DAYS OF RUN DATE)  
 + ROW 1 = CUMULATIVE NO. OF ANIMALS WITH OBSERVATION / TOTAL ANIMALS STARTED ON STUDY  
 ROW 2 = DAY OF ONSET

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Lab: BNW

OBSERVATION	WEEK: 105							
	Control		10 mg/m3		30 mg/m3		100 mg/m3	
	CURRENT*	TOTAL+	CURRENT	TOTAL	CURRENT	TOTAL	CURRENT	TOTAL
<b>Mass</b> Head	0 / 0	2 / 50 DAY 563	0 / 0	4 / 50 DAY 395	0 / 0	1 / 50 DAY 703	0 / 0	1 / 50 DAY 591
<b>Mass</b> Torso/Dorsal	0 / 0	0/50	0 / 0	0/50	0 / 0	1 / 50 DAY 535	0 / 0	4 / 50 DAY 507
<b>Mass</b> Torso/Lateral	0 / 0	0/50	0 / 0	0/50	0 / 0	0/50	0 / 0	5 / 50 DAY 423
<b>Mass</b> Torso/Ventral	0 / 0	3 / 50 DAY 563	0 / 0	4 / 50 DAY 535	0 / 0	4 / 50 DAY 479	0 / 0	6 / 50 DAY 451
<b>Nasal/Eye Discharge</b>	0 / 0	0/50	0 / 0	2 / 50 DAY 199	0 / 0	3 / 50 DAY 395	0 / 0	0/50
<b>Ruffled Fur</b>	0 / 0	0/50	0 / 0	1 / 50 DAY 451	0 / 0	0/50	0 / 0	3 / 50 DAY 199
<b>Thin</b>	0 / 0	8 / 50 DAY 339	0 / 0	7 / 50 DAY 283	0 / 0	6 / 50 DAY 647	0 / 0	18 / 50 DAY 171
<b>Tremors</b>	0 / 0	0/50	0 / 0	0/50	0 / 0	0/50	0 / 0	1 / 50 DAY 311

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Lab: BNW

OBSERVATION	WEEK: 105							
	Control		10 mg/m3		30 mg/m3		100 mg/m3	
	CURRENT*	TOTAL+	CURRENT	TOTAL	CURRENT	TOTAL	CURRENT	TOTAL
Ulcer/Abscess Appendage	0 / 0	15 / 50 DAY 367	0 / 0	15 / 50 DAY 367	0 / 0	17 / 50 DAY 367	0 / 0	17 / 50 DAY 367
Ulcer/Abscess Head	0 / 0	1 / 50 DAY 283	0 / 0	1 / 50 DAY 59	0 / 0	0 / 50	0 / 0	1 / 50 DAY 451
Ulcer/Abscess Torso/Dorsal	0 / 0	0 / 50	0 / 0	0 / 50	0 / 0	3 / 50 DAY 227	0 / 0	6 / 50 DAY 31
Ulcer/Abscess Torso/Lateral	0 / 0	0 / 50	0 / 0	1 / 50 DAY 619	0 / 0	0 / 50	0 / 0	0 / 50
Ulcer/Abscess Torso/Ventral	0 / 0	1 / 50 DAY 591	0 / 0	1 / 50 DAY 535	0 / 0	2 / 50 DAY 535	0 / 0	0 / 50

\*\*\*END OF MALE DATA\*\*\*

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 Lab: BNW

SEX: FEMALE		WEEK: 105							
OBSERVATION	Control		10 mg/m3		30 mg/m3		100 mg/m3		
	CURRENT*	TOTAL+	CURRENT	TOTAL	CURRENT	TOTAL	CURRENT	TOTAL	
Abnormal Breathing	0 / 0	0/50	0 / 0	0/50	0 / 0	1 / 50 DAY 255	0 / 0	0/50	
Eye Abnormality	0 / 0	0/50	0 / 0	0/50	0 / 0	1 / 50 DAY 31	0 / 0	1 / 50 DAY 619	
Head Tilt	0 / 0	0/50	0 / 0	1 / 50 DAY 619	0 / 0	1 / 50 DAY 255	0 / 0	0/50	
Impaired Gait	0 / 0	1 / 50 DAY 703	0 / 0	0/50	0 / 0	1 / 50 DAY 451	0 / 0	1 / 50 DAY 703	
Lethargic	0 / 0	1 / 50 DAY 619	0 / 0	1 / 50 DAY 619	0 / 0	1 / 50 DAY 563	0 / 0	2 / 50 DAY 619	
Mass Appendage	0 / 0	0/50	0 / 0	0/50	0 / 0	0/50	0 / 0	1 / 50 DAY 535	
Mass Head	0 / 0	0/50	0 / 0	1 / 50 DAY 647	0 / 0	0/50	0 / 0	2 / 50 DAY 591	
Mass Torso/Dorsal	0 / 0	0/50	0 / 0	1 / 50 DAY 479	0 / 0	0/50	0 / 0	1 / 50 DAY 423	

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	Control		10 mg/m3		30 mg/m3		100 mg/m3	
	CURRENT*	TOTAL+	CURRENT	TOTAL	CURRENT	TOTAL	CURRENT	TOTAL
<b>Mass</b> Torso/Lateral	0 / 0	4 / 50 DAY 507	0 / 0	4 / 50 DAY 619	0 / 0	5 / 50 DAY 591	0 / 0	6 / 50 DAY 479
<b>Mass</b> Torso/Ventral	0 / 0	9 / 50 DAY 535	0 / 0	8 / 50 DAY 535	0 / 0	13 / 50 DAY 563	0 / 0	8 / 50 DAY 535
<b>Nasal/Eye Discharge</b>	0 / 0	3 / 50 DAY 451	0 / 0	0 / 50	0 / 0	2 / 50 DAY 563	0 / 0	2 / 50 DAY 283
<b>Ruffled Fur</b>	0 / 0	0 / 50	0 / 0	0 / 50	0 / 0	1 / 50 DAY 423	0 / 0	0 / 50
<b>Thin</b>	0 / 0	14 / 50 DAY 591	0 / 0	13 / 50 DAY 479	0 / 0	11 / 50 DAY 255	0 / 0	18 / 50 DAY 563
<b>Tremors</b>	0 / 0	0 / 50	0 / 0	0 / 50	0 / 0	1 / 50 DAY 423	0 / 0	0 / 50
<b>Ulcer/Abscess</b> Head	0 / 0	2 / 50 DAY 59	0 / 0	3 / 50 DAY 199	0 / 0	2 / 50 DAY 311	0 / 0	0 / 50
<b>Ulcer/Abscess</b> Torso/Dorsal	0 / 0	0 / 50	0 / 0	3 / 50 DAY 115	0 / 0	3 / 50 DAY 255	0 / 0	2 / 50 DAY 479

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SEX: FEMALE		WEEK: 105							
OBSERVATION	Control		10 mg/m3		30 mg/m3		100 mg/m3		
	CURRENT*	TOTAL+	CURRENT	TOTAL	CURRENT	TOTAL	CURRENT	TOTAL	
Ulcer/Abscess Torso/Lateral	0 / 0	0/50	0 / 0	3 / 50 DAY 143	0 / 0	2 / 50 DAY 31	0 / 0	0/50	
Ulcer/Abscess Torso/Ventral	0 / 0	0/50	0 / 0	2 / 50 DAY 143	0 / 0	0/50	0 / 0	1 / 50 DAY 591	

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

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