

TDMS No. 20519 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Metal working fluids (Syntilo 1023)

CAS Number: SYNTILO1023

Date Report Requested: 05/18/2011

Time Report Requested: 08:14:42

First Dose M/F: 11/03/08 / 11/03/08

Lab: BNW

F1_M3

C Number: C20519
Lock Date: 06/09/2009
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.4.0.0_003
PWG Approval Date: NONE

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF METAL WORKING FLUIDS (SYNTILO 1023)

MALE MICE

Organ

Larynx

Lung

Lung: Arteriole

Nose: Olfactory Epithelium

Nose: Respiratory Epithelium

FEMALE MICE

Organ

Larynx

Lung

Lung: Arteriole

Lung: Bronchiole, Goblet Cell

Lung: Perivascular

Nose: Olfactory Epithelium

Nose: Respiratory Epithelium

Morphology

Inflammation Chronic

Metaplasia

Ulcer Focal

Infiltration Cellular Histiocyte

Hypertrophy

Accumulation, Hyaline Droplet

Accumulation, Hyaline Droplet

Morphology

Erosion Focal

Inflammation Chronic

Metaplasia

Ulcer Focal

Infiltration Cellular Histiocyte

Hypertrophy

Hyperplasia

Inflammation Chronic

Accumulation, Hyaline Droplet

Accumulation, Hyaline Droplet

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS

DOSE	Males					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Gallbladder Inflammation Neutrophil						
LESION RATES						
OVERALL (a)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/5 (20%)
POLY-3 RATE (b)	0/9.00	0/0.00	0/0.00	0/0.00	0/0.00	1/5.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	20%
TERMINAL (d)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/5 (20%)
FIRST INCIDENCE	---	---	---	---	---	95 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.379
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.379
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.379
COCH-ARM / FISHERS	P=0.202	(e)	(e)	(e)	(e)	P=0.357
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.109

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Gallbladder Mineralization						
LESION RATES						
OVERALL (a)	1/9 (11%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/5 (0%)
POLY-3 RATE (b)	1/9.00	0/0.00	0/0.00	0/0.00	0/0.00	0/5.00
POLY-3 PERCENT (g)	11.1%	0%	0%	0%	0%	0%
TERMINAL (d)	1/9 (11%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/5 (0%)
FIRST INCIDENCE	95 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.615N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.615N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.615N
COCH-ARM / FISHERS	P=0.415N	(e)	(e)	(e)	(e)	P=0.643N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.259N

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Kidney Casts						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	95 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.309	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Kidney Nephropathy						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	4/10 (40%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	4/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	40%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	4/10 (40%)
FIRST INCIDENCE	95 (T)	---	---	---	---	95 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.148
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.148
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.148
COCH-ARM / FISHERS	P=0.100	(e)	(e)	(e)	(e)	P=0.152
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.058

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Kidney: Cortex						
Infarct Focal						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	95 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.309	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Larynx						
Erosion Focal						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	2/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	20%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	95 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.434	(e)	(e)	(e)	P=0.227	(e)
POLY 1.5	P=0.434	(e)	(e)	(e)	P=0.227	(e)
POLY 6	P=0.434	(e)	(e)	(e)	P=0.227	(e)
COCH-ARM / FISHERS	P=0.437	(e)	(e)	(e)	P=0.237	(e)
MAX-ISO-POLY-3	P=0.096	(e)	(e)	(e)	P=0.066	(e)

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Larynx						
Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00	10/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%	100%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	95 (T)	95 (T)	95 (T)	95 (T)	95 (T)
STATISTICAL TESTS						
POLY 3	P=0.002**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P=0.002**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P=0.002**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.002**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Larynx						
Metaplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	10/10.00	10/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%	100%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	95 (T)	95 (T)	95 (T)	95 (T)	95 (T)
STATISTICAL TESTS						
POLY 3	P=0.002**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P=0.002**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P=0.002**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.002**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Larynx						
Ulcer Focal						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	3/10.00	8/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	30%	80%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	3/10 (30%)	8/10 (80%)
FIRST INCIDENCE	---	---	---	---	95 (T)	95 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.095	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.095	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.095	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.105	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.025*	P<0.001**

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS

DOSE	Males					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Liver						
Necrosis Focal						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Lung						
Infiltration Cellular Histiocyte						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	95 (T)
STATISTICAL TESTS						
POLY 3	P=0.108	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.108	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.108	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.106	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.041*	(e)	(e)	(e)	(e)	P=0.158

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Lung: Arteriole Hypertrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	95 (T)
STATISTICAL TESTS						
POLY 3	P=0.108	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	P=0.108	(e)	(e)	(e)	(e)	P=0.500
POLY 6	P=0.108	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.106	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.041*	(e)	(e)	(e)	(e)	P=0.158

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TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Lung: Bronchiole, Goblet Cell Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	95 (T)	95 (T)
STATISTICAL TESTS						
POLY 3	P=0.111	(e)	(e)	(e)	P=0.500	P=0.500
POLY 1.5	P=0.111	(e)	(e)	(e)	P=0.500	P=0.500
POLY 6	P=0.111	(e)	(e)	(e)	P=0.500	P=0.500
COCH-ARM / FISHERS	P=0.107	(e)	(e)	(e)	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.109	(e)	(e)	(e)	P=0.158	P=0.158

TDMS No. 20519 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Metal working fluids (Syntilo 1023)

CAS Number: SYNTILO1023

Date Report Requested: 05/18/2011

Time Report Requested: 08:14:42

First Dose M/F: 11/03/08 / 11/03/08

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Lung: Perivascular Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/10.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	10%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	95 (T)	95 (T)
STATISTICAL TESTS						
POLY 3	P=0.111	(e)	(e)	(e)	P=0.500	P=0.500
POLY 1.5	P=0.111	(e)	(e)	(e)	P=0.500	P=0.500
POLY 6	P=0.111	(e)	(e)	(e)	P=0.500	P=0.500
COCH-ARM / FISHERS	P=0.107	(e)	(e)	(e)	P=0.500	P=0.500
MAX-ISO-POLY-3	P=0.109	(e)	(e)	(e)	P=0.158	P=0.158

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Nose: Olfactory Epithelium Accumulation, Hyaline Droplet						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	2/10.00	8/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	20%	80%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/10 (20%)	8/10 (80%)
FIRST INCIDENCE	---	---	---	---	95 (T)	95 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.227	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.227	P<0.001**
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.227	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	P=0.237	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.066	P<0.001**

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Nose: Respiratory Epithelium Accumulation, Hyaline Droplet						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	7/10 (70%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	7/10.00	9/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	70%	90%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	7/10 (70%)	9/10 (90%)
FIRST INCIDENCE	---	---	---	95 (T)	95 (T)	95 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.500	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P=0.500	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P=0.500	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.500	P=0.002**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.158	P<0.001**	P<0.001**

TDMS No. 20519 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Metal working fluids (Syntilo 1023)

CAS Number: SYNTILO1023

Date Report Requested: 05/18/2011

Time Report Requested: 08:14:42

First Dose M/F: 11/03/08 / 11/03/08

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Pancreas: Periductular Inflammation Chronic Focal						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Parathyroid Gland Cyst						
LESION RATES						
OVERALL (a)	0/6 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/6 (0%)
POLY-3 RATE (b)	0/6.00	0/0.00	0/0.00	0/0.00	0/0.00	0/6.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/6 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/6 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Males					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Trachea Inflammation Chronic						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	0/9.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	10%	0%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	95 (T)	---	---	---	95 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.584N	P=0.500N	P=0.500N	P=0.521N	P=0.760	P=0.500N
POLY 1.5	P=0.584N	P=0.500N	P=0.500N	P=0.521N	P=0.760	P=0.500N
POLY 6	P=0.584N	P=0.500N	P=0.500N	P=0.521N	P=0.760	P=0.500N
COCH-ARM / FISHERS	P=0.585N	P=0.500N	P=0.500N	P=0.526N	P=0.763N	P=0.500N
MAX-ISO-POLY-3	P=0.111N	P=0.158N	P=0.158N	P=0.178N	P=1.000	P=0.158N

TDMS No. 20519 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Metal working fluids (Syntilo 1023)

CAS Number: SYNTILO1023

Date Report Requested: 05/18/2011

Time Report Requested: 08:14:42

First Dose M/F: 11/03/08 / 11/03/08

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Gallbladder Inflammation Neutrophil						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/8 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/8.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/8 (0%)
FIRST INCIDENCE	96 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.544N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.544N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.544N
COCH-ARM / FISHERS	P=0.349N	(e)	(e)	(e)	(e)	P=0.556N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.199N

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Gallbladder Mineralization						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/8 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/8.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/8 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)

TDMS No. 20519 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Metal working fluids (Syntilo 1023)

CAS Number: SYNTILO1023

Date Report Requested: 05/18/2011

Time Report Requested: 08:14:42

First Dose M/F: 11/03/08 / 11/03/08

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS

DOSE	Females					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Kidney Casts						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)

TDMS No. 20519 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Metal working fluids (Syntilo 1023)

CAS Number: SYNTILO1023

Date Report Requested: 05/18/2011

Time Report Requested: 08:14:42

First Dose M/F: 11/03/08 / 11/03/08

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Kidney Nephropathy						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	10%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	96 (T)	---	---	---	---	96 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.760
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.760
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.760
COCH-ARM / FISHERS	P=0.650	(e)	(e)	(e)	(e)	P=0.763N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=1.000

TDMS No. 20519 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Metal working fluids (Syntilo 1023)

CAS Number: SYNTILO1023

Date Report Requested: 05/18/2011

Time Report Requested: 08:14:42

First Dose M/F: 11/03/08 / 11/03/08

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS

DOSE	Females					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Kidney: Cortex						
Infarct Focal						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)

TDMS No. 20519 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Metal working fluids (Syntilo 1023)

CAS Number: SYNTILO1023

Date Report Requested: 05/18/2011

Time Report Requested: 08:14:42

First Dose M/F: 11/03/08 / 11/03/08

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Larynx						
Erosion Focal						
LESION RATES						
OVERALL (a)	0/9 (0%)	0/9 (0%)	2/10 (20%)	3/10 (30%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/9.00	0/9.00	2/10.00	3/10.00	1/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	20%	30%	10%	0%
TERMINAL (d)	0/9 (0%)	0/9 (0%)	2/10 (20%)	3/10 (30%)	1/10 (10%)	0/10 (0%)
FIRST INCIDENCE	---	---	96 (T)	96 (T)	96 (T)	---
STATISTICAL TESTS						
POLY 3	P=0.371N	(e)	P=0.251	P=0.114	P=0.521	(e)
POLY 1.5	P=0.371N	(e)	P=0.251	P=0.114	P=0.521	(e)
POLY 6	P=0.371N	(e)	P=0.251	P=0.114	P=0.521	(e)
COCH-ARM / FISHERS	P=0.374N	(e)	P=0.263	P=0.124	P=0.526	(e)
MAX-ISO-POLY-3	P=0.141	(e)	P=0.082	P=0.035*	P=0.178	(e)

TDMS No. 20519 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Metal working fluids (Syntilo 1023)

CAS Number: SYNTILO1023

Date Report Requested: 05/18/2011

Time Report Requested: 08:14:42

First Dose M/F: 11/03/08 / 11/03/08

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Larynx						
Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/9 (0%)	9/9 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/9.00	9/9.00	10/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	100%	100%	100%	100%	100%
TERMINAL (d)	0/9 (0%)	9/9 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	96 (T)	96 (T)	96 (T)	96 (T)	96 (T)
STATISTICAL TESTS						
POLY 3	P=0.002**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P=0.002**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P=0.002**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.002**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	(e)	(e)

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Larynx						
Metaplasia						
LESION RATES						
OVERALL (a)	1/9 (11%)	9/9 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	1/9.00	9/9.00	10/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	11.1%	100%	100%	100%	100%	100%
TERMINAL (d)	1/9 (11%)	9/9 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	96 (T)	96 (T)	96 (T)	96 (T)	96 (T)	96 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P=0.004**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**	P<0.001**

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Larynx						
Ulcer Focal						
LESION RATES						
OVERALL (a)	0/9 (0%)	0/9 (0%)	0/10 (0%)	2/10 (20%)	6/10 (60%)	7/10 (70%)
POLY-3 RATE (b)	0/9.00	0/9.00	0/10.00	2/10.00	6/10.00	7/10.00
POLY-3 PERCENT (g)	0%	0%	0%	20%	60%	70%
TERMINAL (d)	0/9 (0%)	0/9 (0%)	0/10 (0%)	2/10 (20%)	6/10 (60%)	7/10 (70%)
FIRST INCIDENCE	---	---	---	96 (T)	96 (T)	96 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P=0.251	P=0.002**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P=0.251	P=0.002**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P=0.251	P=0.002**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.263	P=0.008**	P=0.002**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P=0.082	P<0.001**	P<0.001**

TDMS No. 20519 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Metal working fluids (Syntilo 1023)

CAS Number: SYNTILO1023

Date Report Requested: 05/18/2011

Time Report Requested: 08:14:42

First Dose M/F: 11/03/08 / 11/03/08

Lab: BNW

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS

DOSE	Females					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Liver						
Necrosis Focal						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	96 (T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500N
COCH-ARM / FISHERS	P=0.309N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158N

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Lung						
Infiltration Cellular Histiocyte						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/10.00	3/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	30%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	3/10 (30%)
FIRST INCIDENCE	---	---	---	---	96 (T)	96 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	(e)	P=0.500	P=0.095
POLY 1.5	P<0.001**	(e)	(e)	(e)	P=0.500	P=0.095
POLY 6	P<0.001**	(e)	(e)	(e)	P=0.500	P=0.095
COCH-ARM / FISHERS	P=0.002**	(e)	(e)	(e)	P=0.500	P=0.105
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	(e)	P=0.158	P=0.025*

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Lung: Arteriole Hypertrophy						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	2/10 (20%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	2/10.00	3/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	20%	30%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	2/10 (20%)	3/10 (30%)
FIRST INCIDENCE	---	---	---	96 (T)	96 (T)	96 (T)
STATISTICAL TESTS						
POLY 3	P=0.004**	(e)	(e)	P=0.500	P=0.227	P=0.095
POLY 1.5	P=0.004**	(e)	(e)	P=0.500	P=0.227	P=0.095
POLY 6	P=0.004**	(e)	(e)	P=0.500	P=0.227	P=0.095
COCH-ARM / FISHERS	P=0.005**	(e)	(e)	P=0.500	P=0.237	P=0.105
MAX-ISO-POLY-3	P=0.004**	(e)	(e)	P=0.158	P=0.066	P=0.025*

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Lung: Bronchiole, Goblet Cell Hyperplasia						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	1/10.00	3/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	10%	30%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	3/10 (30%)
FIRST INCIDENCE	---	---	---	96 (T)	96 (T)	96 (T)
STATISTICAL TESTS						
POLY 3	P=0.004**	(e)	(e)	P=0.500	P=0.500	P=0.095
POLY 1.5	P=0.004**	(e)	(e)	P=0.500	P=0.500	P=0.095
POLY 6	P=0.004**	(e)	(e)	P=0.500	P=0.500	P=0.095
COCH-ARM / FISHERS	P=0.005**	(e)	(e)	P=0.500	P=0.500	P=0.105
MAX-ISO-POLY-3	P=0.004**	(e)	(e)	P=0.158	P=0.158	P=0.025*

TDMS No. 20519 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Metal working fluids (Syntilo 1023)

CAS Number: SYNTILO1023

Date Report Requested: 05/18/2011

Time Report Requested: 08:14:42

First Dose M/F: 11/03/08 / 11/03/08

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Lung: Perivascular Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	1/10.00	3/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	10%	30%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	1/10 (10%)	3/10 (30%)
FIRST INCIDENCE	---	---	---	96 (T)	96 (T)	96 (T)
STATISTICAL TESTS						
POLY 3	P=0.004**	(e)	(e)	P=0.500	P=0.500	P=0.095
POLY 1.5	P=0.004**	(e)	(e)	P=0.500	P=0.500	P=0.095
POLY 6	P=0.004**	(e)	(e)	P=0.500	P=0.500	P=0.095
COCH-ARM / FISHERS	P=0.005**	(e)	(e)	P=0.500	P=0.500	P=0.105
MAX-ISO-POLY-3	P=0.004**	(e)	(e)	P=0.158	P=0.158	P=0.025*

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Nose: Olfactory Epithelium Accumulation, Hyaline Droplet						
LESION RATES						
OVERALL (a)	1/10 (10%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	2/10 (20%)	9/10 (90%)
POLY-3 RATE (b)	1/10.00	0/10.00	0/10.00	1/10.00	2/10.00	9/10.00
POLY-3 PERCENT (g)	10%	0%	0%	10%	20%	90%
TERMINAL (d)	1/10 (10%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	2/10 (20%)	9/10 (90%)
FIRST INCIDENCE	96 (T)	---	---	96 (T)	96 (T)	96 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	P=0.500N	P=0.500N	P=0.760	P=0.500	P<0.001**
POLY 1.5	P<0.001**	P=0.500N	P=0.500N	P=0.760	P=0.500	P<0.001**
POLY 6	P<0.001**	P=0.500N	P=0.500N	P=0.760	P=0.500	P<0.001**
COCH-ARM / FISHERS	P<0.001**	P=0.500N	P=0.500N	P=0.763N	P=0.500	P<0.001**
MAX-ISO-POLY-3	P<0.001**	P=0.158N	P=0.158N	P=1.000	P=0.274	P<0.001**

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Nose: Respiratory Epithelium Accumulation, Hyaline Droplet						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	6/10 (60%)	9/10 (90%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	6/10.00	9/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	60%	90%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	6/10 (60%)	9/10 (90%)	10/10 (100%)
FIRST INCIDENCE	---	---	---	96 (T)	96 (T)	96 (T)
STATISTICAL TESTS						
POLY 3	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
POLY 1.5	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
POLY 6	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	P<0.001**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	P=0.005**	P<0.001**	P<0.001**
MAX-ISO-POLY-3	P<0.001**	(e)	(e)	P<0.001**	P<0.001**	(e)

TDMS No. 20519 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Metal working fluids (Syntilo 1023)

CAS Number: SYNTILO1023

Date Report Requested: 05/18/2011

Time Report Requested: 08:14:42

First Dose M/F: 11/03/08 / 11/03/08

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Pancreas: Periductular Inflammation Chronic Focal						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	96 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.309	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.158

TDMS No. 20519 - 02

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Metal working fluids (Syntilo 1023)

CAS Number: SYNTILO1023

Date Report Requested: 05/18/2011

Time Report Requested: 08:14:42

First Dose M/F: 11/03/08 / 11/03/08

Lab: BNW

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Parathyroid Gland Cyst						
LESION RATES						
OVERALL (a)	0/3 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/9 (11%)
POLY-3 RATE (b)	0/3.00	0/0.00	0/0.00	0/0.00	0/0.00	1/9.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	11.1%
TERMINAL (d)	0/3 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	---	---	---	---	---	96 (T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.712
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.712
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.712
COCH-ARM / FISHERS	P=0.507	(e)	(e)	(e)	(e)	P=0.750
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.322

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MICE(B6C3F1)
TERMINAL SACRIFICE AT 14 WEEKS**

DOSE	Females					
	Control	25 mg/m3	50 mg/m3	100 mg/m3	200 mg/m3	400 mg/m3
Trachea						
Inflammation Chronic						
LESION RATES						
OVERALL (a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/9.00	0/10.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/9 (0%)	0/10 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)

LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
 - (b) Number of tumor-bearing animals/Poly-3 number
 - (d) Observed incidence at terminal kill.
 - (e) Value of statistic cannot be computed.
 - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
 - (g) Poly-3 adjusted lifetime tumor incidence.
 - (n) No statistics are calculated if all dose groups have fewer than two tumors.
 - (I) Interim sacrifice
 - (T) Terminal sacrifice
 - # Tumor rates based on numbers of animals necropsied.
 - * To the right of any statistical result, indicates significance at ($P \leq 0.05$).
 - ** To the right of any statistical result, indicates significance at ($P \leq 0.01$).
 - N Indicates a negative trend for all tests
- The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

*** END OF REPORT ***