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MR 286459

May 19, 2005

TSCA Confidential Business Information Center
U.S. EPA East - Room 6428
ATTN: Section 8(e) Coordinator
1201 Constitution Avenue, N.W.
Washington, D.C. 20004-3302

Company Sanitized



Dear Section 8(e) Coordinator:

The information in this letter is being submitted under Section 8(e) of the Toxic Substances Control Act on behalf of the

~~This letter contains Confidential Business Information (CBI) that is circled in red. Therefore, a sanitized version of this letter is attached.~~

This letter reports the findings of 14-day and 90-day toxicology studies conducted in Europe on the chemical substance, ammonium thiocyanate (CAS# 1762-95-4).

14-day oral toxicity in rodent according to OECD 407 (GLP)

The test article was administered by gavage to groups of 10 male/10 female rats at dosage levels of 0, 20, 100 or 500 mg/kg/day. No treatment related findings were reported in either the 20 or 100 mg/kg/day groups. The No Observed Adverse Effect Level (NOAEL) was reported as 100 mg/kg/day.

In the 500 mg/kg/day group, treatment related findings included slight decreases in body weight gain, changes in hematological and clinical chemistry values, increased weight ratios for both liver/body and thyroid/body and decreased absolute testes weights. One animal died in the high dose group.

90-day oral toxicity in rodent according to OECD 408 (GLP)

The test article was administered by gavage to groups of 10 male/10 female rats at dosage levels of 0, 20, 100 or 500 mg/kg/day. No treatment related findings were reported in the 20 mg/kg/day group. The No Observed Adverse Effect Level (NOAEL) was reported as 20 mg/kg/day.



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In the 100 mg/kg/day group 2 of 10 females exhibited hunched posture. Other findings in this group included hematological and clinical chemistry values as well as a thickening of the limiting ridge of the stomach. This mid-dose group also showed an increased kidney/body weight ratio, minimal/slight squamous hyperplasia of the fore stomach and minimal hepatocellular hypertrophy.

In the 500 mg/kg/day group, 5 males and 8 females were found dead or were sacrificed *in extremis*. Dosing was stopped on day 59 due to premature mortality, clinical signs and severe reduction in body weights. The surviving animals were sacrificed on that day. Several clinical signs were observed that were indicative of severe stress (hunched posture, labored breathing, diarrhea, eye discharge, lethargy, tremors, etc.). Thickening of the limiting ridge of the stomach was reported as well an enlarged spleen and a reduced size of the thymus. Histopathology evaluation showed slight to severe findings in the fore stomach, liver, testes, spleen, thymus and bone marrow.

Please contact me directly at
letter.

If you have any questions regarding this

Sincerely,