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November 5, 2007

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Via Federal Express

United States Environmental Protection Agency - East
Attn: TSCA Section 8(e)
Room 6428
1201 Constitution Avenue, NW
Washington, DC 20004

Subject: Notice in Accordance with Section 8(e): Results of an Acute Inhalation Study in Wistar Rats with Cobalt oxide (CAS No. 1307-96-6)

Dear Sir/Madam:

BASF Corporation is submitting results of an Acute Inhalation Study in Wistar Rats (Wistar/HanRcc:WIST (SPF)) with Cobalt oxide (CAS No. 1307-96-6), conducted by RCC Ltd, Toxicology, CH-4452 Ittingen, Switzerland. The substance is an industrial chemical.

The study was carried out in accordance with the requirements of the international guideline:

- OECD Guidelines for Testing of Chemicals, Guideline 403

Scope of the examination

Group of five female and five male rats were head-nose exposed to the dust of cobalt oxide for 4 hours. The exposed animals were observed for clinical signs of toxicity. The post exposure observation was scheduled for 14 days. A measured concentration of 0.261 mg/L was tested.

The following is a summary of the most relevant results:

The mass median aerodynamic diameter of the particles in the aerosols was 0.95 µm.

Within 8 days after the exposure, all of the five male and the five female animals died.

Clinical signs of toxicity in exposed animals comprised of bradypnea, decreased spontaneous activity, ventral recumbency and ruffled fur on the day of the exposure and up to six days following exposure in individually variable extend.

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The histological examination of the lung revealed hyaline membranes along with slight to moderate inflammation, type II epithelial cell proliferation, alveolar hemorrhages and or alveolar wall necrosis. All animals showed dark red discoloration of the lungs.

Under the described study conditions, a LC50 value is below 0.261 mg/L for male and female rats.

BASF Corporation understands that reporting of the results from this study under TSCA 8(e) is in accordance with EPA's policy.

If you have any questions pertaining to this submission, please call Janet Cerra at (973) 245-6693.

Sincerely,

Janet Cerra

Janet Cerra
Product Regulatory Center of Excellence

/jc

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From: Origin ID: LKKA (973)245-6693
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