TSCA HEALTH & SAFETY STUDY COVER SHEET

281741

TSCA CBI STATUS: NONE

8EHQ-1204-15880

1.0 SUBMISSION TYPE

☐ 8(d) XX 8(e) ☐ FYI ☐ 4 ☐ OTHER: Specify_____

XX- Initial Submission - Follow-up Submission ☐ Final Report Submission

Previous EPA Submission Number or Title if update or follow-up: Docket Number, if any: #

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2.1 SUMMARY/ABSTRACT ATTACHED (may be required for 8(e): optional for §4, 8(d) & FYI)	2.2 SUBMITTER TRACKING NUMBER OR INTERNAL ID	2.3 FOR EPA USE ONLY
X- YES ☐ NO	7106 4575 1292 0338 1231 04-2-25	

3.0 CHEMICAL/TEST SUBSTANCE IDENTITY

Reported Chemical Name (specify nomenclature if other than CAS name):

CAS# : 4098-71-9 Isophorondiisocyanate (IPDI)

Purity ___%

X- Single Ingredient

☐ Commercial/Tech Grade

☐ Mixture *Trade Name Desmodur I* *Common Name:*

CAS Number	*NAME*	*% WEIGHT*
Other chemical(s) present in tested mixture		

☐ continuation sheet attached

4.0 REPORT/STUDY TITLE

Isophorondiisocyanate (IPDI): Pilot-subacute inhalation toxicity on rats (exposure 5 x 6 hours/day)

☐ continuation sheet attached

5.1 STUDY/TSCATS INDEXING TERMS

[CHECK ONE]

HEALTH EFFECTS (HE): X ENVIRONMENTAL EFFECTS (EE):_____ ENVIRONMENTAL FATE (EF):____

5.2 STUDY/TSCATS INDEXING TERMS (see instructions for 4 digit codes)

STUDY TYPE: STOX	SUBJECT ORGANISM (HE, EE) RAT	ROUTE OF EXPOSURE (HE only):__	VEHICLE OF EXPOSURE (HE only)_
*Other:*____	*Other:*_____	*Other:* _____	*Other:*_____

6.0 REPORT/STUDY INFORMATION ☐ Study is GLP

Laboratory Bayer AG CropScience Toxicology Report/Study Date: 12/8/04

Source of Data/Study Sponsor (if different than submitter) Bayer AG Number of pages _-

☐ continuation sheet attached

7.0 SUBMITTER INFORMATION

Janet M. Mostowy, Ph.D.
VP, Product Safety & Regulatory Affairs **Phone: 412-777-3490**
Bayer Material Science Corporation - 100 Bayer Road, Pittsburgh, PA. 15205

Technical Contact: SAME AS ABOVE Phone: ( )_____

☐ continuation sheet attached

8.0 ADDITIONAL/OPTIONAL STUDY COMMENTS

This compound is a commercial product.

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Submitter Signature: _____ **Date:** 12/15/04

9.0 CONTINUATION SHEET

Submitter Tracking Number/Internal ID

7106 4575 1292 0338 1231
04-2-25

Continuation of 2.1

Male and female rats were exposed to aerosol concentrations of 0, 1.04, 4.08 and 15.3 mg/m3 and a subgroup was maintained for a 2-week recovery period. A significant observation was limp in both male and female rats exposed to 15 mg/m3. The highest prevalence occurred on the first day of exposure and diminished with each daily exposure. This sign was not observed in females 24 hours post-exposure, however, it persisted for three days post-exposure in males. Other findings suggestive of effects on respiratory system (observations of breathing abnormalities) and spleen (decreased weights) were observed but the absence of histopathological evaluations precludes a more definitive assessment of the adversity of these findings. Thus, the observation of limp as a neuromuscular effect may be reportable because it persisted for more than 2 days post-exposure.