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U.S. HIGH PRODUCTION VOLUME (HPV)
CHEMICAL CHALLENGE PROGRAM

ROBUST SUMMARY

N-Methylphthalimide (CAS RN 550-44-7)

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Prepared for:
U.S. Environmental Protection Agency
Washington, D.C., USA

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CHEMICAL IDENTITY AND USE INFORMATION

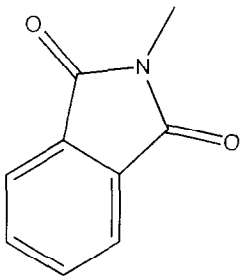
CAS RN:

550-44-7

CHEMICAL NAME:

N-Methylphthalimide

STRUCTURE, MOLECULAR WEIGHT, FORMULA:



Molecular Formula: $C_9H_7NO_2$
Molecular Wt.: 161.16

OTHER CHEMICAL IDENTITY INFORMATION

1H-Isoindole-1,3(2H)-dione, 2-methyl-
Phthalimide, N-methyl-

USE PATTERN

N-Methylphthalimide (PI) (CAS RN: 550-44-7) is a site-limited intermediate made at a single location in the U.S. PI is used as a reactive intermediate to make another intermediate which is used as feedstock for making a high molecular weight polyetherimide polymer.

TEST PLAN

N-Methylphthalimide CAS RN: 550-44-7		Information	OECD Study	GLP	Other Study	Estimation Method	Acceptable	Testing Required
STUDY		**Y/N**	**Y/N**	**Y/N**	**Y/N**	**Y/N**	**Y/N**	**Y/N**
PHYSICAL AND CHEMICAL DATA								
1.0	Melting Point	Y	Y	Y	N	N	Y	N
2.0	Boiling Point	Y	Y	Y	N	N	Y	N
3.0	Vapour Pressure	Y	Y	N	N	N	Y	N
4.0	Partition Coefficient	Y	Y	Y	N	N	Y	N
5.0	Water Solubility	Y	Y	Y	N	N	Y	N
ENVIRONMENTAL FATE AND PATHWAY								
6.0	Photodegradation	Y	N	N	Y	Y	Y	N
7.0	Stability in Water	Y	Y	Y	N	N	Y	N
8.0	Transport and Distribution	Y	N	N	Y	Y	Y	N
9.0	Biodegradation	Y	Y	Y	N	N	Y	N
ECOTOXICITY								
10.0	Acute Toxicity to Fish	Y	Y	Y	N	N	Y	N
11.0	Toxicity to Algae	Y	Y	Y	N	N	Y	N
12.0	Acute Toxicity to Daphnia	Y	Y	Y	N	N	Y	N
TOXICITY								
13.0	Acute Toxicity	Y	N	N	Y	N	Y	N
14.0	Genotoxicity *In Vitro or In Vivo* (Chromosome Aberration Tests)	Y	Y	Y	N	N	Y	N
15.1	Genotoxicity *In Vitro* (Bacterial Test)	Y	N	Y	Y	N	Y	N
15.2	Genotoxicity *In Vitro* (Mammalian Cells)	N	N	N	N	N	N	N
16.0	Repeated Dose Toxicity	Y	N	Y	Y	N	N	Y*
17.0	Reproductive Toxicity	N	N	N	N	N	N	Y*
18.0	Development Toxicity / Teratogenicity	N	N	N	N	N	N	Y*

* OECD 422 study to be conducted to fulfill these endpoints.