CODING FORMS FOR SRC INDEXING

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Submitting Organization		
MOBAY CHEM CORP		
Contractor		
Document Title		
INITIAL SUBMISSION: MATERIAL SAFETY DATA SHEETS ON N-(1,3-DIMETHYLBUTYL)-N'-PHENYL-P-PHENYLENEDIAMINE AND N-PHENYL-N'-(1,3-DIMETHYLBUTYL)-P-PHENYLENEDIAMINE		
Chemical Category		
N-(1,3-DIMETHYLBUTYL)-N'-PHENYL-P-PHENYLENEDIAMINE; N-PHENY*		

[illegible] MOBAY CHEMICAL CORP [illegible]

MATERIAL SAFETY DATA SHEET

DIVISION ADDRESS

Mobay Chemical Corporation
Organic/Rubber Chemicals Division
Penn-Lincoln Parkway West
Pittsburgh, PA 15205

ISSUE DATE 7/30/84
SUPERSEDES 3/16/84

TRANSPORTATION EMERGENCY CALL CHEMTREC
TELEPHONE NO. 800-424-9300, DISTRICT OF COLUMBIA: 202-483-7616

MOBAY NON-TRANSPORTATION EMERGENCY NO.
(412) 923-1800

I. PRODUCT IDENTIFICATION

PRODUCT NAME.....: Vulkanox 4020 Fused
PRODUCT CODE NUMBER.....: R-967
CHEMICAL FAMILY.....: Phenylenediamine
CHEMICAL NAME.....: N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine
CAS NUMBER.....: 793-24-8
T.S.C.A. STATUS.....: On Inventory
CHEMICAL FORMULA.....: $C_{18}H_{24}N_2$

FVI-94-001021
IHIT 07/14/94

II. HAZARDOUS INGREDIENTS

COMPONENTS: %: CURRENT TLV:

III. PHYSICAL DATA

APPEARANCE.....: [illegible]
COLOR.....: Brown
ODOR.....: Aromatic Odor
MOLECULAR WEIGHT.....: 280.4
MELT POINT.....: 114°F (46°C)
BOILING POINT.....: 530°F (260°C)
SPECIFIC GRAVITY.....: 1.1
SOLUBILITY IN WATER.....: Insoluble

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IV. FIRE & EXPLOSION DATA

FLASH POINT °F(°C).....: Greater than 392°F (200°C) Open Cup
EXTINGUISHING MEDIA.....: Carbon dioxide, dry chemicals
SPECIAL FIRE FIGHTING PROCEDURES/UNUSUAL FIRE OR EXPLOSION HAZARDS:
Firefighters should wear full protective clothing including a self-contained breathing apparatus. During a fire, irritating and/or toxic gases from the combustion/decomposition products may be present.

V. HEALTH EFFECTS DATA

ANIMAL TOXICITY -
ORAL, LDSO
(NONSTATED).....: Rat P.O. : 3340 mg/kg
EYE EFFECTS.....: Slight Irritation (Rabbit)
SKIN EFFECTS.....: Slight Irritation (Rabbit)

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[illegible]
[illegible].....: Skin sensitization in man is possible

THRESHOLD LIMIT VALUE....: Not established

VI. EMERGENCY & FIRST AID PROCEDURES

EYE CONTACT.....: Flush eyes with plenty of water for at least 15 minutes. Contact a physician.
SKIN CONTACT.....: Wash with soap and water. Remove contaminated clothing and wash before reuse. Contact a physician.
INHALATION.....: Remove to fresh air.

VII. EMPLOYEE PROTECTION RECOMMENDATIONS

EYE PROTECTION.....: Protective goggles
SKIN PROTECTION.....: Rubber gloves
RESPIRATORY PROTECTION...: Dust respirator when handling solid material. If material is heated, organic vapor respirator should be used.
VENTILATION.....: Local exhaust

VIII. REACTIVITY DATA

STABILITY.....: Stable
POLYMERIZATION.....: Will not occur
HAZARDOUS DECOMPOSITION PRODUCTS.....: Not established

IX. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Sweep up waste material and place in an appropriately marked container. Utilize recommended protective clothing and equipment.
WASTE DISPOSAL METHOD: Waste material may be disposed of under conditions which meet Federal, State and Local environmental control regulations. All hazard precautions apply for empty containers if they have not been properly cleaned. When containers are passed on for reuse or disposal the recipient must be advised of the product's hazard.

X. SPECIAL PRECAUTIONS & STORAGE DATA

STORAGE TEMPERATURE (MIN./MAX.).....: Ambient
AVERAGE SHELF LIFE.....: One year
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in a cool, dry area. If material is heated avoid breathing vapors.

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II. SHIPPING DATA

CHEMICAL SHIPPING NAME: N-Phenyl-N'-(1,3-Dimethylbutyl)-p-phenylenediamine

D.O.T. HAZARD
CLASSIFICATION.....: Non-regulated
REPORTABLE QUANTITY.....: None
DOT. CLASS BULK.....: Chemicals, NOI
DOT. CLASS PKG.....: Chemicals, NOI (NMFC 60000)

REASON FOR ISSUE.....: Change Freight class
APPROVED BY.....: J. J. Gerulis
TITLE.....: Manager, Ind. Hygiene & Reg. Affairs
DATE APPROVED.....: 07/25/84

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MATERIAL SAFETY DATA SHEET

MOBAY CHEMICAL CORPORATION – PITTSBURGH, PA. 15205

DATA SHEET NO. 2100
DIVISION CDBC
ISSUE DATE 9-25-81
ISSUED BY CDB
SUPERSEDES ISSUE OF 6-19-80

MANUFACTURING DIV. ADDRESS
MOBAY CHEMICAL CORPORATION/ ORGANIC & RUBBER CHEMICALS DIVISION
BENN-LINCOLN PARKWAY WEST, PITTSBURGH, PA 15205

CHEMTREC CHEMICAL TRANSPORTATION EMERGENCY
TELEPHONE NO. 800-424-5000; DISTRICT OF COLUMBIA 202-[illegible]

MOBAY NON-TRANSPORTATION EMERGENCY NO.: (412) 923-1800

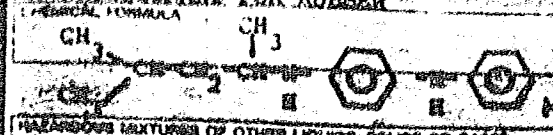
PRODUCT NAME: VULKANOX 4020 Fused (DOMESTIC)

PRODUCT CODE NUMBER: R-967

CHEMICAL FAMILY: ANTIOZONANT FOR RUBBER

CHEMICAL NAME & SYNONYMS: N-PHENYL-N'-(1,3-DIMETHYLBUTYL)-P-PHENYLENEDIAMINE

CHEMICAL FORMULA: CH_3 CH_3 CH_3 CH_2 CH_2 N H N H



TRADE NAME & SYNONYMS: VULKANOX 4020

HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS OR GASES	%	CURRENT TLV
N.E.		

PHYSICAL DATA

APPEARANCE (SOLID, LIQUID, GAS)	MOLECULAR WEIGHT	MELT POINT	SPECIFIC GRAVITY
Solid	N.E.	[illegible]	N.E.
VAPOR DENSITY (AIR=1)	COLOR	BULK DENSITY	BOILING POINT
N.E.	Brown	N.E.	[illegible]
VAPOR PRESSURE	SOLUBILITY	ODOR	% VOLATILE BY VOLUME
N.E.	Not in water: but in Petrol, [illegible] Chloride, [illegible]	Aromatic Odor	N.E.

FLASH POINT °F (METHOD USED)	FLAMMABLE LIMIT	EXTINGUISHING MEDIA
[illegible] Open Cup	Lel Uel	Carbon Dioxide, Dry Chemicals

Change abstract

SPECIAL FIRE FIGHTING PROCEDURES
Self contained breathing apparatus should be worn.

Change acetate

UNUSUAL FIRE OR EXPLOSION HAZARDS
NONE

TOXICITY DATA

LD50, ORAL (INGESTION)	LD50, DERMAL (SKIN CONTACT)	INHALATION
Rat, T.D. [illegible] mg/kg	N.E.	Formation of vapours at [illegible] temperatures
FISH, LD50 (LETHAL CONCENTRATION)	TLV (UNITS) (THRESHOLD LIMIT VALUE)	SKIN IRRITATION
N.E.	N.E.	Slight irritation (Rabbit) sensitization in man possible
EFFECTS TO EYE	EFFECTS TO LUNG	OTHER
Minor irritation (Rabbit's eye)	N.E.	N.E.

EMERGENCY AND FIRST AID PROCEDURES, EFFECTS OF OVER EXPOSURE

Skin Contact: Wash with soap & water

Eye Contact: Flush with large amounts of water (Consult eye doctor if desired)

Oral Ingestion: Consult medical [illegible]

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REACTIVITY DATA

NONE

NONE

NONE

N.E.

SPILL OR LEAK PROCEDURE

TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Waste material can be handled as normal solid waste.

DISPOSAL METHOD

Waste material may be incinerated in accordance with Federal, State & Local EPA regulations.

SPECIAL PROTECTION DATA

PIRATOR TYPE

Organic vapor respirator and dust prefilter

PROTECTION

Safety glasses

GLOVES

Rubber gloves

HER PROTECTIVE EQUIPMENT

NONE

SPECIAL PRECAUTIONS & STORAGE DATA

ORAGE TEMPERATURE

Min. ambient Max.

AVERAGE SHELF LIFE

One (1) Year

PECIAL SENSITIVITY (HEAT LIGHT MOISTURE)

N.E.

RECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in cool dry area: When handling material at higher temperatures...formation of vapors occur...recommend ventilation of working area and avoid breathing vapours.

SHIPPING DATA

DOT SHIPPING NAME

N.A.

TECHNICAL SHIPPING NAME

N-Phenyl-N¹-(1,3-Dimethyl Butyl)-p-phenylenediamine

DOT HAZARD CLASSIFICATION

Primary: Non-Regulated

Secondary:

DOT LABELS REQUIRED

N.A.

Product Label Dated 9-10-80

FREIGHT CLASSIFICATION

Bulk: Chemicals, NOI

~~Pkg: Chemicals, NOI (NMFC 69000)~~

REASON FOR ISSUE

Freight Classification Revision TSCA - OK R-967

INITIATED BY	TITLE	APPROVED BY	TITLE
[signature]	Product Mgr.	[signature]	Admin Reg. Affairs
DATE OBTAINED 5/30/80		DATE APPROVED 5/30/80	

N.E. - NOT ESTABLISHED N.A. - NOT APPLICABLE

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