Material Safety Data Sheet

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Original Date:

11/04/1992

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BASE CORPORATION

3000 CONTINENTAL DRIVE NORTH

MOUNT OLIVE, NJ 07828

(973) 426-4671 .

EMERGENCY TELEPHONE: (800) 424-9300 CHEMTREC

(800) 832-HELP (BASF Hotline)

BOTH NUMBERS ARE AVAILABLE DAYS, NIGHTS, WEEKENDS, & HOLIDAYS.

SECTION 1 - PRODUCT INFORMATION

PALATINOL® 711P PLASTICIZER

Product ID:

NCO 526255

Common Chemical Name:

PLASTICIZER

Synonyms:

None

Molecular Formula:

C26 H42 O4

Chemical Family: Phthalate Esters

Molecular Wt.:

418.0

SECTION 2 - INGREDIENTS

Chemical Name:		CAS	Amount
1,2-BENZENEDICARBOXYLIC ACID,	()	68515-44-6	PROPRIETARY
DI(C7) ESTER, BR. & LINEAR			
PEL/TLV NOT ESTABLISHED			
1,2-BENZENEDICARBOXYLIC ACID,	()	68515-45-7	PROPRIETARY
DI(C9) ESTER. BR. & LINEAR			
PEL/TLV NOT ESTABLISHED			
1,2-BENZENEDICARBOXYLIC ACID,	()	85507-79-5	PROPRIETARY
DI(C11) ESTER. BR. & LINEAR			
PEL/TLV NOT ESTABLISHED			
1,2-BENZENEDICARBOXYLIC ACID,	()	111381-89-6	PROPRIETARY
(C7, C9) ESTER, BR. & LINEAR			
PEL/TLV NOT ESTABLISHED			
1,2-BENZENEDICARBOXYLIC ACID,	()	111381-90-9	PROPRIETARY
(C7,C11) ESTER, BR. & LINEAR			
PEL/TLV NOT ESTABLISHED			
1,2-BENZENEDICARBOXYLIC ACID,	()	111381-91-0	PROPRIETARY
(C9,C11) ESTER, BR. & LINEAR			
PEL/TLV NOT ESTABLISHED			

NCO 526255

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SECTION 2 - INGREDIENTS (cont)

Chemical Name:

CAS

Amount

PALATINOL 711P CONTAINS:

MIXTURE

100.0

PEL/TLV NOT ESTABLISHED

SECTION 3 - PHYSICAL PROPERTIES

Color:

Colorless

Form/Appearance:

Oily Liquid

Odor:

Characteristic

Typical

Odor Intensity:

Slight

Low/High

U.O.M.

Specific Gravity:

0.97

Viscosity:

41

CENTIPOISE @

25 DEG.

pH:

NOT AVAILABLE

Typical

Low/High

Deg.

Pressure

Boiling Pt:

252

-

C .

10 MM HG

Freezing Pt: Decomp. Tmp:

NOT AVAILABLE

NOT AVAILABLE

Solubility in Water Description:

Slightly Soluble

U.O.M.

@ Temperature

Solubility:

Typical 0.6

MG/L

20 C

Vapor Pressure:

0.3 MM HG

Х

180 DEG. C XX

Other Physical Properties:

POUR POINT: -50 C

Low/High

SECTION 4 - FIRE AND EXPLOSION DATA

Typical

Low/High

Deg. Method

Flash Point:

227

C CLEVELAND OPEN CUP

Autoignition:

390

C NONE SPECIFIED

Extinguishing Media:

Use water fog, foam or dry chemical extinguishing media.

Fire Fighting Procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Water may be ineffective but should be used to keep exposed containers cool.

Unusual Hazards:

There are no known unusual fire or explosion hazards.

SECTION 5 - HEALTH EFFECTS

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

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Toxicology Test Data:
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Rat, 28-Day Feeding Study - DOSES TO 2 G/KG/DAY

Liver discoloration, males, >/ 750 mg/kg

Rat, 30 month chronic study (dietary) - 0.03 - 0.3 PERCENT IN DIET

No Compound Related Oncogenic Effects

Rat, Oral LD50 - > 15.8 G/KG

Practically Nontoxic

Rabbit, Dermal LD50 - > 7.9 G/KG

Practically Nontoxic

Rabbit, Primary Skin Irritation - MAX AVG 1.8 DRAIZE: MAX=8

Mildly Irritating

Rabbit, Eye Irritation - MAX AVG 9.3 DRAIZE: MAX=110

Minimally Irritating

Rat, Inhalation Safety Screen, 6 hr -

No Compound Related Adverse Effects

Rat, 3 month oral toxicity, dietary - NOEL: 3000 PPM

Liver effects at high dose(s)

Rat, 6 month aerosol inhalation study - 5 AND 25 MG/CU. M

No Compound Related Adverse Effects

Guinea pig, 6 month aerosol inhalation - 5 AND 25 MG/CU. M

No Compound Related Adverse Effects

Cynomolgus monkey, 6 month aerosol study - 5 AND 25 MG/CU. M

No Compound Related Adverse Effects

Ames Salmonella Assay (Direct Plate) - NEGATIVE

No increased mutation; 4 strains tested

Ames Salmonella Assay (Plate with S-9) - NEGATIVE

No increased mutation; 4 strains tested

Mouse Lymphoma Forward Mutation Assay - POSITIVE

Positive response without activation

Mouse Lymphoma Assay (with S-9) - NEGATIVE

No increase in mutation frequency

Rat, oral teratology range finding test - NOEL: 2500 MG/KG/DAY

Increased embryonal or fetal losses

Rat, Oral Developmental Toxicity Study - @ 5000 MG/KG/DAY

Reduced fetal weights, not teratogenic

Rat 21 day oral study of liver & lipids - NOEL: 0.3 PERCENT IN DIET

Moderate peroxisome proliferation, males

USP VI, Systemic Toxicity, mice - FILM 27581

No significant difference from control

USP VI, Systemic Toxicity, mice - FILM 17581

No significant difference from control

USP VI, Intracutaneous Toxicity, rabbits - FILM 17581

No significant difference from control

USP VI, Intracutaneous Toxicity, rabbits - FILM 27581

No significant difference from control

USP VI, Implantation Test, rabbits - FILM 27581

No significant difference from control

USP VI, Implantation Test, rabbits - FILM 17581

No significant difference from control

USP VI, Intracutaneous Toxicity, rabbits - FILM 1-574-A

No significant difference from control

No significant difference from control

USP VI, Intracutaneous Toxicity, rabbits - FILM 1-574-C

No significant difference from control

In vitro Hemolysis Cytotoxicity Assay - FILM 1-574-C

No hemolysis noted

In vitro Hemolysis Cytotoxicity Assay - FILM 1-574-A

No hemolysis noted

In vitro Hemolysis Cytotoxicity Assay - FILM 1-574-E

No hemolysis noted

MEM Elution Assay for Cytotoxicity - FILM 1-574-E

Not Toxic

MEM Elution Assay for Cytotoxicity - FILM 1-574-C

Not Toxic

MEM Elution Assay for Cytotoxicity - FILM 1-574-A

Not Toxic

MEM Elution Assay for Cytotoxicity - FILM 2-574-B

Not Toxic

MEM Elution Assay for Cytotoxicity - FILM 2-574-F

Not Toxic

MEM Elution Assay for Cytotoxicity - FILM 2-574-F

Not Toxic

In vitro Hemolysis Cytotoxicity Assay - FILM 2-574-F

Not Toxic

In vitro Hemolysis Cytotoxicity Assay - FILM 2-574-D

Not Toxic

In vitro Hemolysis Cytotoxicity Assay - FILM 2-574-B

Not Toxic

In vitro Hemolysis Cytotoxicity Assay - FILM 2-574-B

No significant difference from control

USP VI, Intracutaneous Toxicity, rabbits - FILM 2-574-B

No significant difference from control

USP VI, Intracutaneous Toxicity, rabbits - FILM 2-574-D

No significant difference from control

USP VI, Intracutaneous Toxicity, rabbits - FILM 2-574-D

No significant difference from control

USP VI, Intracutaneous Toxicity, rabbits - FILM 2-574-F

No significant difference from control

Mouse Lymphoma Forward Mutation Assay - NEGATIVE

No increase in mutation frequency

Mouse Lymphoma Assay (with S-9) - NEGATIVE

No increase in mutation frequency

BALB/c 3T3 Cell Transformation - INACTIVE

No increase in transformed foci

Rat, Oral Developmental Toxicity Study - NOEL: 200 MG/KG

Malformations at maternally toxic doses

Acute Overexposure Effects:

Prolonged or excessive contact with the liquid may cause skin or eye irritation.

The low vapor pressure of this product essentially eliminates an inhalation hazard unless the material is heated or misted. Ingestion could cause abdominal cramps. nausea and diarrhea. In a 2 year

SECTION 5 - HEALTH EFFECTS (cont)

reported. Occupational exposure to this material has not been reported to cause any significant adverse human health effects. On the basis of the available information, product is not expected to produce adverse human health effects if recommended safety precautions are followed.

Chronic Overexposure Effects:

Components of this product lowered fetal body weight when given to rats at 5 g/kg on day 6-19 of pregnancy. In a more recent screening study, the obvious signs of developmental toxicity noted at 1000 mg/kg body weight appeard only when maternal toxicity was evident.

First Aid Procedures - Skin:

Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, get medical attention.

First Aid Procedures - Eyes:

Immediately rinse eyes with running water for 15 minutes. If irritation develops, get medical attention.

First Aid Procedures - Ingestion:

If swallowed, dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

First Aid Procedures - Inhalation:

Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

First Aid Procedures - Notes to Physicians:

None known.

First Aid Procedures - Aggravated Medical Conditions:

No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product. Please refer to the effects of overexposure section for effects (if any) observed in animals.

First Aid Procedures - Special Precautions:

None

SECTION 6 - REACTIVITY DATA

Stability Data:

Stable; Excessive heat and ignition sources.

Incompatability:

Strong oxidizing agents.

Conditions/Hazards to Avoid:

No data available.

Hazardous Decomposition/Polymerization:

Hazardous decomposition products: CO and CO2.

Corrosive Properties:

Not corrosive to metal.

Oxidizer Properties:

Not an oxidizer

Clothing:

Gloves, coveralls, apron, boots as necessary to minimize contact. Eyes:

Chemical goggles; also wear a face shield if splashing hazard exists. Respiration:

If vapors or mists are generated, wear a NIOSH/MSHA approved organic vapor/mist respirator or an air-supplied respirator as appropriate.

Use local exhaust to control vapors/mists.

Explosion Proofing:

None required.

Other Personal Protection Data:

Eyewash fountains and safety showers must be easily accessible. SECTION 8 - SPILL-LEAK/ENVIRONMENTAL

General:

Spills should be contained, solidified and placed in suitable containers for disposal in a licensed facility. The phthalate ester class of chemicals is included on the CERCLA Hazardous Substance List and RCRA Toxic Constituents List.

Waste Disposal:

Incinerate in a licensed facility. Do not discharge into waterways or sewer systems.

Container Disposal:

Dispose of in a licensed facility. Recommend crushing or other means to prevent unauthorized reuse.

Environmental Toxicity Test Data:

Daphnid, Chronic Toxicity, 21 day - MATC 1.3-2.5 MG/L

TEST RATING NOT FOUND

Daphnid, Static 48 hr LC50 - > 10 PPM

Slightly Toxic

Sheepshead Minnow, static 96 hr LC50 - > 1000 MG/L

Insignificant Hazard

Mysid Shrimp, Static 48 hr LC50 - > 1000 MG/L

Insignificant Hazard

M aeruginosa, 48 hr static algal EC50 - > 1000 MG/L

Insignificant Hazard

S costatum, 48 hr static algal EC50 - > 1000 MG/L

Insignificant Hazard

D tertiolecta, 48 hr static algal EC50 - > 1000 MG/L

Insignificant Hazard

N pelliculosa, 48 hr static algal EC50 - > 1000 MG/L

Insignificant Hazard

S capricornutum, 48 hr static algal EC50 - > 1000 MG/L

Insignificant Hazard

Rainbow Trout, static 96 hr LC50 - > 500 MG/L

Practically Nontoxic

Bluegill, 22 day Bioconcentration Factor - 27

Negligible tendency to bioaccumulate

Midge, 48 hour static LC50 - > 10 MG/L

Slightly Toxic

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SECTION 8 - SPILL-LEAK/ENVIRONMENTAL (cont)

Dynamic study observations 1, 2, 14 days

Fathead minnow, early lifestage study - MATC: > 265 UG/L

TEST RATING NOT FOUND

Daphnid, Static 48 hr LC50 - > 0.062 MG/L

Greater than the limit of solubility

Daphnid, Chronic Toxicity, 21 day - MATC 0.13 MG/L

Highly Toxic

NCO 526255

Inherent Biodegradability: Modified SCAS - 65 PERCENT

Values >/ 60% indicate good elimination

Ultimate Biodeg. Shake Flask Method, CO2 - >99 (98) PERCENT

Primary degradation (% theoretical CO2)

S capricornutum, static algal EC50 - 7 DAY > 2.6 MG/L

Greater than the limit of solubility

Early Life Stage Study -

No Compound Related Adverse Effects

SECTION 9 - STORAGE AND HANDLING

General:

NAME:

Keep containers closed.

SECTION 10 - REGULATORY INFORMATION

NO

NO

TSCA Inventory Status

Listed on Inventory:

YES

RCRA Haz. Waste No .:

MASSACHUSETTS RIGHT-TO-KNOW LISTED: - NO

PENNSYLVANIA RIGHT-TO-KNOW LISTED: - NO

State Regulatory Information: (By Component) NJ/PA/MA RTK

CAS: 68515-44-6

NO 1,2-BENZENEDICARBOXYLIC ACID, DI (C7) ESTER, BR. & LINEAR

CAS: 68515-45-7 NO

NAME: 1,2-BENZENEDICARBOXYLIC ACID, DI (C9) ESTER. BR. & LINEAR

CAS: 85507-79-5

NAME: 1,2-BENZENEDICARBOXYLIC ACID, DI(C11) ESTER. BR. & LINEAR

CAS: 111381-89-6

NAME: 1,2-BENZENEDICARBOXYLIC ACID, (C7, C9) ESTER, BR. & LINEAR

CAS: 111381-90-9

(C7,C11) ESTER, BR. & LINEAR NAME: 1,2-BENZENEDICARBOXYLIC ACID,

CAS: 111381-91-0 NO

NAME: 1,2-BENZENEDICARBOXYLIC ACID, (C9,C11) ESTER, BR. & LINEAR

Hazard Ratings:

Health: Fire: Reactivity: Special:

HMIS 1 1 0 NA NFPA 1 1 ٥ NA

This product is hazardous or contains components which are hazardous according to the OSHA Hazard Communication Standard.

This product is hazardous or contains components which are hazardous according to the OSHA Hazard Communication Standard.

Disposal - This material is not hazardous waste under RCRA. It can be disposed of at a licensed facility.

Clean up - CERCLA: Phthalate esters are listed as a class but this product has no reportable quantity. Spills need to be remediated to CERCLA standards and it is suggested to contact local authorities to determine if there are other reporting requirements.

SECTION 11 - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:

N/A

NCO 526255

DOT Technical Name:

N/A

DOT Primary Hazard Class:

N/A

DOT Secondary Hazard Class:

N/A

DOT Label Required:

N/A

DOT Placard Required:

N/A

DOT Poison Constituent:

N/A

BASF Commodity Codes:

UN/NA Code: NONE E/R Guide:

Bill of Lading Description:

NOT REGULATED BY THE DEPARTMENT OF TRANSPORTATION "IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK".

END OF DATA SHEET