



U.S. Department
of Transportation

**Pipeline and Hazardous
Materials Safety
Administration**

1200 New Jersey Avenue, SE
Washington, DC 20590

November 14, 2023

Mr. Hien Le
Manager – Hazmat and Compliance
Leschaco, Inc.
15355 Vantage Parkway West, Suite 240
Houston, TX 77032

Reference No. 23-0008

Dear Mr. Le:

This letter is in response to your January 30, 2023, email concerning the use of a technical name as part of a proper shipping name under the Hazardous Materials Regulations (HMR; 49 CFR Parts 171-180). Specifically, your email pertains to the shipment of dimethyl phthalate as “UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, III.” In your email, you note that the safety data sheet (SDS) for this material states the technical name is “dimethyl phthalate,” while also listing multiple synonyms, including “1,2-benzenedicarboxylic acid, dimethyl ester.” You add that both “dimethyl phthalate” and “1,2-benzenedicarboxylic acid, dimethyl ester” are listed in the hazardous substances table in Appendix A to § 172.101 - List of Hazardous Substances and Reportable Quantities with a reportable quantity (RQ) of 5,000 pounds. You ask whether it is permissible to use a synonym or alternate name listed in an SDS as the technical name for a material if the synonym is listed in Appendix A to § 172.101. Additionally, you ask if the synonym is not listed in Appendix A of § 172.101 but is included as another name under the Chemical Abstracts Service (CAS) record, whether it is permissible to use that synonym as the technical name for a hazardous substance in the basic shipping description.

As stated in § 172.203(c) of the HMR, the name of the hazardous substance must be entered in parentheses in association with the basic description when the proper shipping name for a material does not identify the hazardous substance by name. Both “dimethyl phthalate” and “1,2-benzenedicarboxylic acid, dimethyl ester” are listed as hazardous substances in Appendix A to § 172.101 and they are synonyms of the same chemical. As such, it is the opinion of this Office that the proper shipping name could appear as either “UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, III (Dimethyl phthalate)” or “UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, III (1,2-Benzenedicarboxylic acid, dimethyl ester).”

Lastly, § 172.203(c) requires that the name of the hazardous substance listed in Appendix A to § 172.101 appear as the technical name in the basic shipping description if the proper shipping name for a material that is a hazardous substance does not identify the hazardous substance by name. The HMR does not permit the use of a synonym under a CAS record that is not listed in Appendix A to § 172.101 to describe a hazardous substance on shipping papers.

I hope this information is helpful. Please contact us if we can be of further assistance.

Sincerely,

A handwritten signature in blue ink, reading "T. Glenn Foster". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

T. Glenn Foster
Chief, Regulatory Review and Reinvention Branch
Standards and Rulemaking Division

From: INFOCNTR (PHMSA)
To: Hazmat Interps
Subject: FW: Interpretation Seeking on Technical Name Synonym
Date: Tuesday, January 31, 2023 3:47:53 PM
Attachments: image001.png
image002.png
image003.png
image004.png
image005.png
image006.png
image007.png
image008.png
DMP DGD.pdf
DMP SDS.pdf

Please see below and attached request for interpretation.

Thanks,
Jonathon, HMIC

From: Le, Hien <Hien.Le@leschaco.com>
Sent: Monday, January 30, 2023 5:35 PM
To: INFOCNTR (PHMSA) <INFOCNTR.INFOCNTR@dot.gov>
Cc: Le, Hien <Hien.Le@leschaco.com>
Subject: Interpretation Seeking on Technical Name Synonym

CAUTION: This email originated from outside of the Department of Transportation (DOT). Do not click on links or open attachments unless you recognize the sender and know the content is safe.

Dear PHMSA,

I am writing this email seeking interpretation on 49 CFR 172.203(k). This part generally outlines the requirement of listing the technical name(s) in parenthesis on the shipping documents after PSN with "n.o.s."

In addition, this part directs reader to 49 CFR 171.8 for additional technical name options.

This email lays out a specific situation for UN3082. Section 14 of the attached safety data sheet (SDS) states the technical name for this product (DMP) as "Dimethyl Phthalate." However, in section 1 of the same SDS, the manufacturer lists other names under "Synonyms." Screen shots of section 1 and 14 are as follows.

14. TRANSPORT INFORMATION

Description of waste residues and information on their safe handling and methods of disposal:

UN number	3082
UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s. (Dimethyl phthalate)
Transport hazard class(es)	9
Packing group (if applicable)	III



1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF SUPPLIER

Product Identifier: High Purity Chemicals
Synonyms: 1,2-Benzenedicarboxylic Acid, Dimethyl Ester; D.M.P.; Phthalic Acid, Dimethyl Ester; dimethyl benzeneorthodicarboxylate; Methyl Phthalate
Other means of identification: CAS No. 131-11-3
EINECS No. 205-011-6
Recommended use of the chemical and restrictions on use:
Commonly used as a plasticizer.

The shipper has used one of the synonyms listed in section 1 as technical name for their shipping document (reacted copy attached). Further investigation of technical name definition under 49 CFR 171.8, the regulation asks not to use trade name and if the substance is listed on Appendix A to Part 172.101, then the substance name must be used. In this case, both "Dimethyl phthalate" and "1,2-benzenedicarboxylic acid, dimethyl ester" are listed on Appendix A and have the same RQ limit (5000 lbs).

Additional effort to confirm if the two substance texts are the same or not is conducted using the CAS No. 131-11-3. The NIST link (<https://webbook.nist.gov/cgi/cbook.cgi?ID=131-11-3>) shows both technical name texts under the same CAS no.





Search ▾

NIST Data ▾

About ▾

Dimethyl phthalate

- **Formula:** C₁₀H₁₀O₄
- **Molecular weight:** 194.1840
- **IUPAC Standard InChI:** InChI=1S/C10H10O4/c1-13-9(11)7-5-3-4-6-8(7)10(12)14-2/h3-6H,1-2H3  InChI v 1.06
- **IUPAC Standard InChIKey:** NIQCNGHVCWTJSM-UHFFFAOYSA-N 
- **CAS Registry Number:** 131-11-3
- **Chemical structure:**



This structure is also available as a [2d Mol file](#) or as a [computed 3d SD file](#)

The 3d structure may be viewed using [Java](#) or [Javascript](#).

- **Other names:** 1,2-Benzenedicarboxylic acid, dimethyl ester; Phthalic acid, dimethyl ester; Avolin; Dimethyl 1,2-benzenedicarboxylate; DMF; Insect repellent; DMP; Ferimine; Mipax; NTM; Palatinol M; Solvanom; Solvarone; Unimol DM; Dimethyl benzenedicarboxylate; Dimethyl orthophthalate; Dimethyl benzene-o-dicarboxylate; Dimethyl o-phthalate; ENT 262; Phthalsaeuredimethylester; Dimethyl 1,2-benzenedicarboxylate; Kemester DMP; Kodaflex DMP; Repeftal; Uniplex 110; 1,2-dimethyl phthalate; 1,2-Benzenedicarboxylic acid, 1,2-dimethyl ester; NSC 15398; 64441-70-0

The question is posed that if it is legal to use the synonym (or other name) on the SDS as alternative technical name (such as in this case) or not? In addition, if the synonym is not on the Appendix A; however, such name is included as other name under the CAS record, will it be legal to use and bridge the gap using the CAS number? In the latter case, I understand that requirement for RQ or Marine Pollutant is still applicable if other technical name is listed on Appendix A and / or B.

Thank you so much in advance,

Kind regards,

Hien Le, CDGP | he, him, his

Manager - Hazmat and Compliance

**LESCHACO**

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phone (1) 281.590.2536 | mobile (1) 346.364.8750

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MATERIAL SAFETY DATA SHEET

Dimethyl Phthalate (DMP)

1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF SUPPLIER

Product Identifier: High Purity Chemicals
Synonyms: 1,2-Benzenedicarboxylic Acid, Dimethyl Ester; D.M.P.; Phthalic Acid, Dimethyl Ester; dimethyl benzeneorthodicarboxylate; Methyl Phthalate
Other means of identification: CAS No. 131-11-3
EINECS No. 205-011-6
Recommended use of the chemical and restrictions on use:
Commonly used as a plasticizer.

Supplier Details:

71, Udyog Kshetra,
Mulund-Goregaon Link Road,
Mulund (West), Mumbai-400080,
INDIA.

Aarti Industries Limited

71, Udyog Kshetra,
Mulund-Goregaon Link Road,
Mulund (West), Mumbai-400080, INDIA.

2. HAZARDS IDENTIFICATION

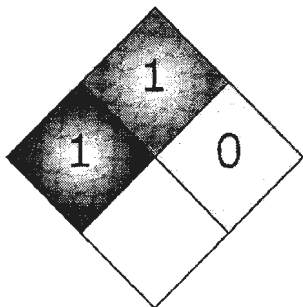
OSHA Hazards:

Target organ effect, Teratogen

Target Organs:

Nerves

NFPA



Signal Word:

WARNING!

Hazard statement(s)

H320

Causes eye irritation

H402

Harmful to aquatic life.

Precautionary statement(s)

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

GHS Classification(s)

Acute aquatic toxicity (Category 3)

Eye irritation (Category 2B)

Other hazards which do not result in classification:

Potential Health Effects:

Organ	Description
Eyes	Can be irritating to the eyes.
Ingestion	Can be harmful if ingested.
Inhalation	Can be harmful, causing irritation to the respiratory tract, if inhaled.
Skin	Product can rapidly absorb through the skin and cause irritation.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical identity:

Dimethyl Phthalate

Common name / Synonym:

1,2-Benzenedicarboxylic Acid, Dimethyl Ester; D.M.P.; Phthalic Acid, Dimethyl Ester; dimethyl benzeneorthodocarboxylate; Methyl Phthalate

CAS number:

131-11-3

EINECS number:

205-011-6

ICSC number:

0261

RTECS #:

TI1575000

UN #:

3082

% Weight	Material	CAS
90-100	Dimethyl Phthalate	131-11-3

4. FIRST AID MEASURES

General advice

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid.

Revision Date: 15.02.2020

www.aarti-industries.com | CIN: L24999MH2004PLC000001

Admin. Office : 71, Udyog Kshetra, 2nd Floor, Mulund Goregaon Link Road, Mulund (W), Mumbai - 400080, INDIA.
T : 022-67976666, F : 022-2565 3234 | E : info@aarti-industries.com

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Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Skin

Wash skin with soap and copious amounts of water. Seek medical attention.

Inhalation

Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.

Eyes

Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, seek medical attention.

Ingestion

DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

Carbon oxides expected to be the primary hazardous combustion product.

Special protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool by spraying with water.

Flammable Properties

Classification

OSHA/NFPA Class IIIB Combustible Liquid.

Flash point

146 °C (295 °F) - closed cup

Autoignition temperature

490 °C (915 °F)

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Do not inhale vapors/mist/gas/dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions:



Revision Date: 15.02.2020

www.aarti-industries.com | CIN: L24110GJ1984PLC00780

Revision Number: 001

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Stop leak. Contain spill if possible and safe to do so. Prevent product from entering drains.

Methods and materials for containment and cleaning up:

Absorb with an inert dry material and place in an appropriate waste disposal container. Keep disposal containers closed when finished.

7. HANDLING AND STORAGE**Precautions for safe handling:**

Do not get on skin or in eyes. Do not inhale vapor or mist. Take normal fire prevention measures.

Conditions for safe storage, including any incompatibilities:

Container must be sealed tightly and kept in a dry, well-ventilated space.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameters, e.g., occupational exposure limit values or biological limit values:****Occupational Exposure Limits**

Component	Source	Type	Value	Note
Dimethyl Phthalate	US (OSHA)	TWA	5 mg/m ³	29 CFR 1910.1000 Table Z-1 Limits for Air Contaminants

Appropriate engineering controls:

General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.

Individual protection measures, such as personal protective equipment:**Respiratory protection:**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU) Maintain eye wash fountain and quick-drench facilities in work area.

Skin and body protection:

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Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Liquid. Colorless, clear.
Odor	Specific data not available
Odor threshold	Specific data not available
pH	Specific data not available
Freezing point	2 °C (36 °F)
Initial boiling point and boiling range	282 °C (540 °F)
Flash point	146 °C (295 °F) - closed cup
Evaporation rate	Specific data not available
Flammability (solid, gas)	Specific data not available
Upper / Lower flammability or explosive limits	8.0% (V) / 0.9% (V)
Vapor pressure	0.0020 hPa (0.0015 mmHg) at 20.0 °C (68.0 °F)
Vapor Density	6.69
Relative Density	1.19 g/mL at 25 °C (77 °F)
Solubility(ies)	slightly soluble
Partition coefficient n-octanol/water(ies)	log Pow: 1.5
Auto-ignition temperature	490 °C (915 °F)
Decomposition temperature	Specific data not available
Formula (DIMETHYL PHTHALATE)	C ₁₀ H ₁₀ O ₄
Molecular Weight (DIMETHYL PHTHALATE)	194.18 g/mol

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No data available
Conditions to avoid (e.g., static discharge, shock or vibration)	No data available
Incompatible materials	Acids, oxidizing agents
Hazardous decomposition products	Carbon oxides are expected to be, under fire conditions, the primary hazardous decomposition products.

11. TOXICOLOGICAL INFORMATION

- Dimethyl Phthalate 131-11-3



Revision Date: 15.02.2020

www.aarti-industries.com | CIN: L24110MH2000007300

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Product Summary:

Laboratory test results indicate that the product has reproductive and teratogenic effects. No data available for the mutagenic effects of the product. No data available to designate product as an aspiration hazard or to cause specific target organ toxicity through single or repeated exposure.

Acute Toxicity:

LD50 (Dermal)	Rabbit	> 11,940 mg/kg	
LD50 (Oral)	Rat	8,239 mg/kg	

Irritation:
Eyes

Rabbit - mild eye irritation

Respiratory or Skin Sensitization

No data available

Skin

No data available

Reproductive Toxicity

Reproductive disorder(s) have been displayed in laboratory animals overexposed to the material.

Teratogenicity

May cause congenital malformation in the fetus.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Other Hazards

Organ	Description
Eyes	May be irritating to the eyes.
Ingestion	May be harmful if ingested.
Inhalation	May be harmful if inhaled. May be irritating to the respiratory tract.
Skin	May be harmful if absorbed through skin. May be irritating to the skin.



Revision Date: 15-02-2020 | Revision Number: 3.01

www.aarti-industries.com | CIN: L27101MH1997301

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12. ECOLOGICAL INFORMATION

- Dimethyl Phthalate 131-11-3

Ecotoxicity (aquatic and terrestrial, where available):

Acute Fish Toxicity (DIMETHYL PHTHALATE)

LC50 / 96 hours Fathead Minnow - 121 mg/L

Acute Fish Toxicity (DIMETHYL PHTHALATE)

LC50 / 96 hours Bluegill - 50 mg/L

Toxicity to Daphnia (DIMETHYL PHTHALATE)

EC50 / 48 hours Water flea - 46 mg/L

Persistence and degradability:

No data available

Bioaccumulative potential:

Bioaccumulation: *Lepomis macrochirus* (Bluegill) - 21 d Bioconcentration factor (BCF): 57

Other adverse effects:

Product is harmful to aquatic life and can be considered an environmental hazard if improperly handled or through improper disposal.

13. DISPOSAL CONSIDERATIONS

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

14. TRANSPORT INFORMATION

Description of waste residues and information on their safe handling and methods of disposal:

UN number	3082
UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s. (Dimethyl phthalate)
Transport hazard class(es)	9
Packing group (if applicable)	III



Revision Date: 15.02.2020 | Revision Number: 007301

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Reportable Quantity

5,000 lbs

IMDG

UN-Number: Not a dangerous good.

Marine pollutant: No

IATA

UN-Number: Not a dangerous good.

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question:
OSHA Hazards

Target organ effect, Teratogen

All ingredients are on the following inventories or are exempted from listing

Country	Notification
Australia	AICS
Canada	DSL
China	IECS
European Union	EINECS
Japan	ENCS/ISHL
Korea	ECL
New Zealand	NZIoC
Philippines	PICCS
United States of America	TSCA

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313: DIMETHYL PHTHALATE CAS-No. 131-11-3 Revision Date 2007-07-01

SARA 311/312 Hazards

Chronic Health Hazard

CERCLA

Dimethyl phthalate CAS-No. 131-11-3, RQ: 5,000 lbs

Massachusetts Right To Know Components

Dimethyl phthalate CAS-No. 131-11-3 Revision Date 2007-07-01



Revision Date: 15.02.2020 | Revision Number: 5667301

www.aarti-industries.com | CIN: L24101MH2007PLC000001

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Pennsylvania Right To Know Components

Dimethyl phthalate CAS-No. 131-11-3 Revision Date 2007-07-01

New Jersey Right To Know Components

Dimethyl phthalate CAS-No. 131-11-3 Revision Date 2007-07-01

California Prop 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION: INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS

Disclaimer

AARTI INDUSTRIES LIMITED believes that the information on this MSDS was obtained from reliable sources. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, AARTI INDUSTRIES LIMITED does not assume responsibility and expressly disclaims liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this MSDS information may not be applicable. Information is correct to the best of our knowledge at the date of the MSDS publication.



Revision Date: 15.02.2020 | Revision Number: 7301
www.aarti-industries.com | CIN: L24100MH2007PLC007301

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IMO DANGEROUS GOODS DECLARATION



This form meets the requirements of SOLAS 74 chapter VII ,regulation 5:MARPOL 73/78 Annex III ,regulation 4 and the IMDG Code General Introduction, Section 9

Shipper Aarti Industries Limited 71 Udyog Kshetra,2nd Floor LBS Marg,Mulund Goregaon Link Road, Mulund (West) Mumbai-400080 Maharashtra,India Phone No: +912267976666 Fax No : +912225653234 Email : info@aartigroup.com CIN - L24110GJ1984PLC007301		Reference Number(s)	
Consignee		Emergency Contact Telephone Number TEL: 201-753-5407 201	
Container Packing Certificate/Vehicle Declaration CONTAINER PACKING DECLARATION It is hereby declared that the packing of the container has been carried out in accordance with the General Introduction , IMDG code , paragraph 5.4.2.1		Carrier	
Ships Name & Voyage No		Carriers Booking Number.	
Port Of Loading MUNDRA, INDIA		Bill Of Lading No. & Date	
Port Of Unloading SAVANNAH, USA		Name/Status , Company/Organization of Signatory AARTI INDUSTRIES LIMITED	
Final Destination SAVANNAH, USA		MR. AMIT DALVI <i>Naya</i>	
		Place And Date MUMBAI 15.12.2022	
		Signature On Behalf Of The Packer <i>Naya</i>	
		MR. AMIT DALVI	
		Container Number(s) Seal NO. 38728	
Qty , Type & kind of packages	Description(Proper Shipping Name,Class,UN,Packing)	Gross & Net Weights	
1 ISO TANK ONLY DI METHYL PHTHALATE (DMP) PO NO GW/TW/NW LOT NO ISO TANK NO:	CHEMICAL. DIMETHYL PHTHALATE 10, MATERIAL NO. 50374 UN NO.3082,ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,N.O.S. (1,2-BENZENEDICARBOXYLIC ACID,DIMETHYL ESTER)9,III, CAS NO. 131-11-3 HTS# A2917.34.0150 UN NO:3082 CLASS EMS:9 PG:III Marine Pollutant: UN NO: 3082 Class: 9 P.G: III P.O NO. DT.	NT.WT . 19,500.000 GR.WT . 23,390.000 ON AS IS BASIS	
SHIPPER'S DECLARATION It is hereby declared that the contents of this consignment are fully AND accurately described above by the proper shipping name(s) , and are respects in proper condition for transport according to applicable international and national government regulations.		Name/Status,Company/Organization of Signatory AARTI INDUSTRIES LIMITED	
		Place And Date	
		Signature On Behalf Of The Shipper MR. AMIT DALVI	