Section 1: Product and Company Identification

1.1 GHS Product Identifier

Product Name: Dioctyl Terephthalate, Import

1.2 Other Means of Identification

Synonyms: DOTP / Bis(2-ethylhexyl) Terephthalate / Kanatol 8080

SDS Code: 102023

1.3 Recommended / Restricted Use

Identified Uses: Plasticizer

Restrictions: Avoid processes that could lead to occupational exposure without the use of personal protective equipment.

1.4 Supplier Detail

Supplier:

Silver Fern Chemical Inc
2226 Queen Anne Ave N, Suite C
Seattle, WA 98109
206-282-3376(Telephone) 206-282-0105
(FAX)

1.5 Emergency Phone Number

24 Hour emergency Contact : InfoTrac 800-535-5053

:

Outside USA and Canada 1-352-323-3500

Section 2: Hazard Identification

2.1 GHS Classification

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard's implementation of the Globally Harmonized System (GHS).

2.2 GHS Label Elements, Including Precautionary Statements

Pictogram(s) No Pictogram(s)

Signal Word No Signal Word

Hazard Statement(s) No Hazard Statement(s)

Precautionary Statement(s) – Prevention
No Precautionary Statement(s) – Prevention

Precautionary Statement(s) – Response
No Precautionary Statement(s) – Response

Precautionary Statement(s) – Storage
No Precautionary Statement(s) – Storage

Precautionary Statement(s) – Disposal
No Precautionary Statement(s) – Disposal

2.3 Other Hazards

No information available.

Section 3: Composition / Information on Ingredients

3.1 Substance

Components	Concentration (%)
1,4-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (6422-86-2)	≥ 99.50

3.2 Mixture

N/A – This product is not a substance.

Section 4: First Aid Measures

4.1 Description of First Aid Measures

Eye Contact

Immediately flush eyes with water, while lifting the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

Skin Contact

Remove contaminated clothing and shoes. Wash exposed area immediately with soap and water. Seek medical attention if irritation develops or persists. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Seek immediate medical attention. If unconscious, place in recovery position and seek medical attention immediately. Maintain an open airway.

Ingestion

Immediately rinse mouth. Drink plenty of water. If vomiting occurs spontaneously, keep head low so that stomach content does not get into the lungs. Seek medical attention. Never give anything by mouth to a victim who is unconscious or is having convulsions. If unconscious, place in recovery position and seek medical attention immediately.

4.2 Most Important Symptoms / Effects – Acute & Delayed

Eyes: May cause slight irritation.

4.3 Indication of Immediate Medical Attention / Special Treatment

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Keep victim under observation.

Section 5: Firefighting Measures

5.1 Suitable Extinguishing Media

Use carbon dioxide (CO_2), dry chemical, water spray or foam.

5.2 Unsuitable Extinguishing Media

No information available.

5.3 Specific Hazards Arising from the Chemical

The product is combustible.

5.4 Special Protective Actions for Firefighters

Promptly isolate the immediate hazard area by removing all persons from the vicinity of the incident. Stop spill / release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool containers / equipment exposed to fire with water, if it can be done safely.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

5.5 Special Protective Equipment for Firefighters

Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

6.2 Environmental Precautions

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways. Notify relevant authorities in accordance with all applicable regulations.

6.3 Methods and Materials for Containment and Cleaning Up

Stop spill / release if it can be done safely. Move undamaged containers from spill area. Approach release from upwind. Contain and collect spillage with non-combustible, absorbent material (e.g. sand, earth, vermiculite or diatomaceous earth) and place in a suitable container for disposal according to local / state / federal / national regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

Section 7: Handling and Storage

7.1 Precautions for Safe Handling

Put on appropriate personal protective equipment. Avoid contact with eyes, skin and clothing. Avoid breathing vapor, mist or dust. Do not ingest. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Static Accumulation Hazard: No information available.

7.2 Conditions for Safe Storage, Including any Incompatibilities

Store this product in accordance with local regulations. Store this material in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Protect container(s) against physical damage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Incompatibilities: Strong oxidizing agents.

Section 8: Exposure Controls / Personal Protection

8.1 Control Parameters

Components with Workplace Control Parameters

Components	CAS No.	Value	Control Parameters	Basis
1,4-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester	6422-86-2			No occupational exposure limits known.

8.2 Appropriate Engineering Controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Eye wash facilities and emergency shower must be available when handling this product.

8.3 Individual Protection Measures, Such as Personal Protective Equipment (PPE)

Eye/Face Protection

Safety eyewear complying with an approved standard should be used to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn: safety glasses with side shields.

Hand Protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products.

Skin Protection

Personal protective equipment for the body, appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.

Respiratory Protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Thermal Hazards

No information available.

Section 9: Physical and Chemical Properties

9.1 Physical and Chemical Data

Physical State	Liquid
Color	Colorless
Odor	Faint Odor
Odor Threshold	N/D
pH	N/A (Not Soluble)
Specific Gravity (Water = 1)	0.9860
Melting Point / Freezing Point	< -67.2º C (-88.96º F)
Initial Boiling Point / Range	375º C (707º F)
Flash Point	212° C (413.6° F)
Evaporation Rate (BuA = 1)	N/D
Flammability (solid, gas)	N/A
Lower Explosion Limit	N/D
Upper Explosion Limit	N/D
Vapor Pressure	< 0.00001 hPa @ 25° C (77° F)
Vapor Density (Air = 1)	N/D
Relative Density	0.98 g/cm^3
Water Solubility	Practically Insoluble
Partition Coefficient: n-octanol / water	N/D
Auto-Ignition Temperature	387° C (729° F)
Decomposition Temperature	N/D
Viscosity (dynamic)	65.8 mPa.s @ 25° C (77° F)

Section 10: Stability and Reactivity

10.1 Reactivity

No applicable information available.

10.2 Chemical Stability

This product is stable if stored and handled as prescribed / indicated.

10.3 Possibility of Hazardous Reactions

This product is chemically stable.

10.4 Conditions to Avoid

Avoid extreme temperatures and contact with incompatible materials.

10.5 Incompatible Materials

This product is incompatible with strong oxidizing agents.

10.6 Hazardous Decomposition Products

No hazardous decomposition products if stored and handled as prescribed / indicated.

Section 11: Toxicological Information

11.1 Information on Toxicological Effects

Acute Toxicity

Component	Result	Species	Dose	Exposure
1,4-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester	LD_{50} Oral	Rat	> 5000 mg/kg	
	LD_{50} Dermal	Guinea Pig	> 19,680 mg/kg	

Skin Corrosion / Irritation
Species: Rabbit
Result: Non-Irritant
Method: OECD 404

Serious Eye Damage / Eye Irritation
Species: Rabbit
Result: Irritant
Method: OECD 405

Respiratory or Skin Sensitization
Skin sensitizing effects were not observed in animal studies. The substance did not cause skin sensitization in humans.

Germ Cell Mutagenicity
The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not gen0toxic in mammalian cell culture.

Carcinogenicity
The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No.	IARC	NTP	ACGIH	OSHA
1,4-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester	6422-86-2	Not Listed	Not Listed	Not Listed	Not Listed

Reproductive Toxicity
The results of animal studies gave no indication of a fertility impairing effect.

Specific Target Organ Toxicity – Single Exposure
No information available.

Specific Target Organ Toxicity – Repeated Exposure
No information available.

Aspiration Hazard
No information available.

11.2 Information on the Likely Routes of Exposure

Inhalation: No information available.
Ingestion: No information available.
Skin: No information available.
Eyes: No information available.

11.3 Symptoms Related to the Physical, Chemical and Toxicological Characteristics

Eyes: May cause slight irritation.

Section 11: Toxicological Information - continued

11.4 Delayed and Immediate Effects / Chronic Effects from Short Term and Long Term Exposure

No information available.

11.5 Numerical Measures of Toxicity

No information available.

11.6 Interactive Effects

No information available.

11.7 Other Information

No information available.

Section 12: Ecological Information

12.1 Toxicity

Component	Result	Species	Dose	Exposure
1,4-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester	LC_{50}	Pimephales promelas (fathead minnow)	> 984 mg/L	96 Hrs.
	EC_{50}	Daphnia magna (water flea)	> 1.4 µg/L	48 Hrs.
	EC_{50}	Selenastrum capricornutum (green algae)	> 0.86 mg/L	72 Hrs.

12.2 Persistence and Degradability

Readily biodegradable (according to OECD criteria).

12.3 Bioaccumulative Potential

Accumulation in organisms is not to be expected.

12.4 Mobility in Soil

No information available.

12.5 PBT and vPvB Assessment

No information available.

12.6 Other Adverse Effects

No information available.

Section 13: Disposal Considerations

13.1 Disposal Methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

13.2 Contaminated Packaging

Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues.

13.3 RCRA Waste Codes

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Component	RCRA – P Series Wastes	RCRA – U Series Wastes
1,4-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester		

Section 14: Transport Information

14.1 DOT (US)

Not classified as a dangerous good under transport regulations.

14.2 IMDG

Not classified as a dangerous good under transport regulations.

14.3 IATA

Not classified as a dangerous good under transport regulations.

Section 15: Regulatory Information

15.1 Safety, Health and Environmental Regulations Specific for the Product

OSHA Hazard Communication Standard (29 CFR 1910.1200)
This product is not a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard.

Toxic Substances Control Act (TSCA)
All components are on the inventory or in compliance with the inventory.

SARA – Section 311 / 312 Hazard Categories (40 CFR 370)
No SARA hazards.

SARA – Section 313 Components (40 CFR 372.65)
This product does not contains any chemical components that exceed the threshold (De Minimis) reporting levels established by Section 313.

Component	CAS Number	Weight %	Threshold Value %

SARA – Section 302 Emergency Planning Extremely Hazardous Substances Threshold Planning Quantity (40 CFR 355)
This product does not contain any chemical components subject to the reporting requirements of Section 302.

Component	CAS Number	Threshold Planning Quantity

SARA – Section 302 Emergency Planning Extremely Hazardous Substances Reportable Quantity (40 CFR 355)
This product does not contain any chemical components with a Section 302 RQ.

Component	CAS Number	Reportable Quantity

SARA – Section 304 Emergency Release Notification Reportable Quantity (40 CFR 355)
This product does not contain any chemical components with a Section 304 RQ.

Component	CAS Number	Reportable Quantity

U.S. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)
This product, as supplied, does not contain any chemical components regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act.

Component	CAS Number	Reportable Quantity

Clean Water Act (CWA)

This product does not contain any chemical components regulated as a Hazardous Substance, Priority Pollutant or Toxic Pollutant pursuant to the Clean Water Act.

Component	Hazardous Substance	Priority Pollutant	Toxic Pollutant

Clean Air Act (CAA)

This product does not contain any chemical components regulated as a Hazardous Air Pollutant (HAP), Class 1 Ozone Depletor or Class 2 Ozone Depletor pursuant to the Clean Air Act.

Component	Hazardous Air Pollutant	Class 1 Ozone Depletor	Class 2 Ozone Depletor

U.S. Department of Homeland Security

This product does not contain any chemical components subject to the reporting requirements of the Chemical Facility Anti-Terrorism Standard (CFATS).

Component	DHS Chemical Facility Anti-Terrorism Standard

California Proposition 65, Safe Drinking Water and Toxic Enforcement Act of 1986

This product does not contain any chemical components known to the State of California to cause cancer, birth defects or other reproductive harm at concentrations that trigger the warning requirements of California Proposition 65.

Component	CAS Number	CA Prop 65	Prop 65 NSRL	Category

Other U.S. State Inventories

This product contains chemical components listed on the following State Hazardous Substance Inventories or Right-to-Know Lists.

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
1,4-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester		X	X		

15.2 International Regulations

Australia Inventory of Chemical Substances (AICS)

No information available.

Canada Domestic Substance List (DSL)

No information available.

China Existing Chemical Inventory (IECSC)

No information available.

European Inventory of Existing Commercial Chemical Substances (EINECS)

No information available.

Japanese Existing and New Chemical Substances Inventory (ENCS)

No information available.

Korea Toxic Chemical Control Law (KECI) or Existing Chemicals List (ECL)

No information available.

Malaysia Environmentally Hazardous Substances Notification and Registration (EHSNR)

No information available.

Philippine Inventory of Chemicals and Chemical Substances (PICCS)

No information available.

New Zealand Inventory of Chemicals (NZIoC)
No information available.

Taiwan Inventory of Chemicals (CSNN)
No information available.

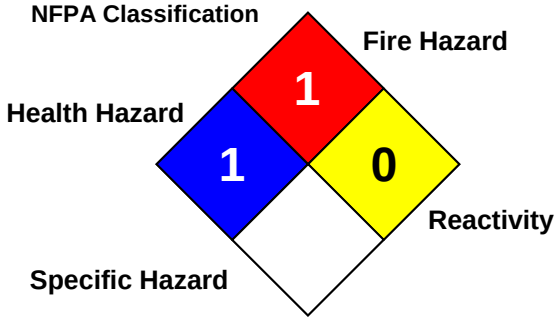
Mexico El Inventario Nacional de Sustancias Quimicas (INSQ)
No information available.

Section 16: Other Information

16.1 HMIS III Classification

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

16.2 NFPA Classification



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End of Safety Data Sheet