



Section 1 – Company Information

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Collect Calls Accepted

Section 2 – Product Identification/ Information on Ingredients

PRODUCT NAME Diisononyl Phthalate
CAS NUMBER 28553-12-0
SYNONYM 1,2-benzenedicarboxylic acid, diisononyl ester
FORMULA Not available

PRODUCT	CAS NUMBER	% BY WEIGHT
Diisononyl Phthalate	28553-12-0	100%

Section 3 – Hazards Identification

1,2-benzenedicarboxylic acid, diisononyl ester - 100%

Section 4 – First Aid Measures

Skin: Wash with soap and plenty of water. Remove contaminated clothing and do not reuse until thoroughly cleaned or laundered.

Eyes: Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if there is irritation.

Inhalation: Remove from contaminated area promptly. CAUTION: Rescuer must not endanger himself! If breathing stops, administer artificial respiration and seek medical aid promptly.

Ingestion: Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

Note: Inadvertent inhalation of vomited material may seriously damage the lungs. The risk and danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity product. The stomach should only be emptied under medical supervision, after the installation of an airway to protect the lungs.

Section 5 – Fire Fighting Measures

Flash Point: 221 C/430 F (closed cup)
Autoignition Temperature: 380 C/716 F



Flammable Limits: 0.4%-2.9%

Combustion Products: carbon monoxide, nitrogen oxides, smoke, part oxidized hydrocarbon fragments

Fire Fighting Precautions: foam, dry chemical, water fog, water spray only to cool & dilute, product floats on water – water jet spreads flames; fire fighters must wear SCBA.

Static Discharge: may accumulate a static charge – high viscosity make static charge development unlikely

Mechanical Impact: not sensitive

Chemical Stability: strong oxidizing agents; hydrolyses in strong acids or alkalies

Decomposition Products: none apart from Hazardous Combustion products.

Section 6 – Accidental Release Measures

Leak Precaution: dyke to control spillage and prevent environmental contamination

Handling Spill: ventilate contaminated area; recover free liquid with suitable pumps; absorb residue on an inert sorbent, sweep, shovel, & store in closed containers for recycling or disposal.

Waste Disposal: DO NOT FLUSH IN SEWER; mix with flammable product and incinerate in approved facility

Enviro. Info: this product cannot accumulate in living tissue, this product is readily and rapidly biodegradable in the presence of oxygen.

Section 7 – Handling & Storage

Store in a cool, dry environment, away from sources of ignition, heat and oxidizing agents. Do not cut, drill, weld or grind on or near this container. Avoid prolonged contact with skin and wash work clothes frequently. An eye bath and safety shower should be available near the workplace.

Section 8 – Exposure Controls & Personal Protection

Hands: neoprene, butyl or nitrile gloves may be worn – consult supplier to conform suitability

Eyes: safety glasses with side shields or chemical goggles – always protect the eyes

Ventilation: not required

Clothing: no special protective clothing required

Clean Water Act Requirements: Toxic pollutant designated pursuant to section 307 (a)(1) of the clean water act and is subject to effluent limitations. /Phthalate esters/

TSCA Requirements: EPA promulgated a model Health and Safety data reporting rule. The section 8(d) model rule requires manufactures, importers, and processors of listed chemical substances and mixtures to submit to EPA copies and lists of unpublished health and safety studies. 1,2-Benzenedicarboxylic acid, diisononyl ester is included on this list.

Section 9 – Physical & Chemical Properties

Odor & Appearance: clear, colorless, viscous, odorless liquid
Odor Threshold: not known
Vapor Pressure: 5.4×10^{-7} mmHg / 0.7×10^{-7} kPa (20 c)
Evaporation Rate (Butyl Acetate=1): Not Known
Vapor Density (Air=1): ~14 (theoretical, DINP is not volatile)
Boiling Range: ~250 c / ~480 F (at 0.7 kPa / 5 mmHg – very reduced pressure)
Freezing Point: -43 c / -48 F
Specific Gravity: 0.975 (20/20 c)
Water Solubility: 0.2 milligrams pre litre (20 c)
In Other Solvents: soluble in acetone
Viscosity: not known – estimated as 80-90 centipoise (25 c)
PhpH none (does not liberate hydrogen ions when dissolved)

Section 10 – Stability & Reactivity Data

Not available

Section 11 – Toxicological Information

Effects Acute Exposure

Skin Contact: Little to no effect

Skin Absorption: slight; no toxic effect likely by this route

Eye Contact: slightly irritating, will not damage eyes

Inhalation: low vapour pressure & high viscosity greatly reduces inhalation risk (vapour or mist)

Ingestion: may cause stomach discomfort & diarrhoea – bitter taste discourages ingestion.

Effects of Chronic Exposure

General: very low toxic product; prolonged exposure may cause skin cracking and dermatitis

Sensitising: not a sensitiser

Carcinogenic: carcinogen in rodents; however, high dose required indicates this is irrelevant to either industrial or consumer exposure-hence not listed as carcinogenic

Reproductive Effect: no known effect in humans-fetotoxic effect in rodents required ingestion of 0.2%-0.8% of body weight daily (20,000/kg-80,000mg/kg), an extremely high dose!

Synergistic With: not known

LD50: above 11,250 mg/kg (oral, rat)

LC50: not known.

TWAEV/TLV ppm/mg/m³: no listed

LD50 Oral: 11,250

Skin (mg/kg): not known

LC50 ppm Inhalation: not known carcinogen in rodents; however, high dose required indicates this is irrelevant to either industrial or consumer exposure-hence not listed as carcinogenic



Section 12 – Ecological Information

Not available

Section 13 – Disposal Consideration

Follow applicable laws and regulations.

Section 14 – Transportation Data

Not Regulated by the DOT.

Section 15 – Regulatory Information

Not available

Section 16 – Other Information

Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

