



Carolina International Sales Co., Inc

MATERIAL SAFETY DATA SHEET

2522 Plantation Center Drive
Matthews, NC 28105
(704) 845 9440

www.ciscochem.com

1. PRODUCT NAME: Diisooctyl Phthalate

2. CHEMICAL NAME: Diisooctyl Phthalate

3. SYNONYMS:

4. CAS NUMBER: 27554-26-3

5. PROPERTIES: ODOUR & APPEARANCE: clear, colorless,
viscous liquid with almost no odour
ODOUR THRESHOLD: not known
VAPOUR PRESSURE: 5.5×10^{-6} mmHg/ 4.2×10^{-7} kPa (25 c)
EVAPORATION RATE (Butyl Acetate-1): not known – extremely low volatile
VAPOUR DENSITY (air=1): 13.5
BOILING RANGE: 370 c/698 F
FREEZING POINT: -4 c/25 F
SPECIFIC GRAVITY: 0.984 (20/20 C)
WATER SOLUBILITY: 9×10^{-2} milligrams per litre (25 c)
IN OTHER SOLVENTS: soluble in most organic solvents except glycols & glycerol
VISCOSITY: 83 centipoise (20 c)
PH: none – (does not liberate hydrogen ions when dissolved)

6. HAZARDS: Diisooctyl Phthalate - 100%

7. FIRE FIGHTING FLASH POINT: 232 c/450 F (closed cup)
MEASURES: AUTOIGNITION TEMPERATURE: not known – probably above 350 c/660/c
FLAMMABLE LIMITS: not known
COMBUSTION PRODUCTS: carbon monoxide, nitrogen oxides, part oxidized hydrocarbon fragments
FIRE FIGHTING PRECAUTIONS: foam, dry chemical, water fog, water spray only to cool & dilute
water jets spreads flames; firefighters must wear SCBA
STATIC DISCHARGE: will not accumulate a static charge
MECHANICAL IMPACT: not sensitive
CHEMICAL STABILITY: stable; will not polymerize
REACTIVE WITH: strong oxidizing agents
DECOMPOSITION PRODUCTS: none apart from Hazardous Combustion products

8. PERSONAL PROTECTION HANDS: rubber or nitrile gloves
EYES: safety glasses with side shields recommended
MEASURES: RESPIRATOR: not required
CLOTHING: impermeable (hands, above) apron recommended
ATMOSPHERIC STANDARDS: This action promulgates standards of performance for equipment leaks of Volatile Organic compounds (VOC) in the Synthetic Organic Chemical manufacturing Industry (SOCMI). The intended effect of these standards is to require all newly constructed, modified, and reconstructed SOCMI process units to use the best demonstrated system of continuous emission reduction for equipment leaks of VOC, considering costs, non air quality health and environment impact and energy requirements. Diisooctyl phthalate is produced, as an intermediate or final product, by process units covered under subpart.
CLEAN WATER ACT REQUIREMENTS: toxic pollutant designated to section 307(a)(1) of the clean water Act and is subject to effluent limitations. /Phthalate esters/
TSCA REQUIREMENTS: Pursuant to section 8(d) of TSCA, EPA promulgated a model health and safety data reporting rule. The section 8(d) model rule required manufactures, Importers, and processors

IN CASE OF
TRANSPORT EMERGENCY
CONTACT CHEMTREC
USA: 1-800-424-9300
INTERNATIONAL: 1-703-527-3887



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of listed chemical substances and mixtures to submit to EPA copies and lists of unpublished health and safety studies. 1,2-benzenedicarboxylic acid, diisooctyl ester is included on the list.

FDA REQUIREMENTS: Diisooctyl phthalate is an indirect food additive use only as a component of adhesives. Diisooctyl phthalate is classified as a plasticizer when migrating from food-packaging material (for foods or high after content only).

9. FIRST AID PROCEDURES: 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.

10. EXPOSURE LIMITS: TWAEV ppm: not listed
LD50 ORAL: 2770
SKIN (mg/kg): 12,400
LC50 ppm INHALATION: not known

11. TOXICOLOGICAL INFORMATION: EFFECT OF ACUTE EXPOSURE
SKIN: CONTACT: mild irritant
SKIN ABSORPTION: slight; toxic effects unlikely, but possible by this route
EYE CONTACT: may be a mild irritant
INHALATION: low vapour pressure & high viscosity make inhalation highly unlikely
INGESTION: effects slight to nil in rodent testing
EFFECTS OF CHRONIC EXPOSURE
GENERAL: liver damage seen in rodents; no reported human effect
SENSITISING: not a sensitiser
CARCINOGENIC: not a tumorigen, not a carcinogen
REPRODUCTIVE EFFECT: fetotoxicity, reduced fertility & teratogen in rats; no reported human effect
SYNERGISTIC WITH: not known
ESTIMATED LD50: 22,000mg/kg (oral, mouse); 12,400mg/kg (skin, rabbit)
ESTIMATED LC50: not known

12. ECOLOGICAL INFORMATION: This product is metabolized and cannot accumulate in living tissue, this product is readily and rapidly biodegradeable in the presence of oxygen; 75% & 99% biodegradation in 28 days; half-life in air estimated as 19 hours.

13. DISPOSAL CONSIDERATIONS: DO NOT FLUSH IN SEWER; may be incinerate in approved facility.

14. CARCINOGENIC PROPERTIES & NOTIFICATIONS: Not a tumorigen, not a carcinogen.



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15. TRANSPORT USA 49 CFR

INFORMATION: Product identification number: UN- not regulated for transportation
Shipping name: not regulated for transportation
Classification: not regulated
Label: none required
WHMIS Class (Canada): D 2B
HMIS (U.S.A): Health – 1, Fire –1, Reactivity – 0
Material use: plasticiser

16. 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.

17. ACCIDENTAL LEAK PRECAUTION: dyke to control spillage and prevent environmental contamination
RELEASE HANDLING SPILL: ventilate contaminated area; recover free liquid with suitable pumps; absorb residue
MEASURES: on an inert sorbent, sweep, shovel, & store in closed containers for recycling or disposal.