



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: Diisobutyl Phthalate

2. CHEMICAL NAME: Diisobutyl Phthalate

3. SYNONYMS: DIBP

4. CAS NUMBER: 84-69-5

5. PROPERTIES: ODOUR & APPEARANCE: clear, colorless,  
viscous liquid with faint odour  
ODOUR THRESHOLD: not known  
VAPOUR PRESSURE:  $6.6 \times 10^{-3}$  mmHg (25 c) – very low  
EVAPORATION RATE (Butyl Acetate-1): not known – not considered volatile  
VAPOUR DENSITY (air=1): 9.6  
BOILING RANGE: 327 c/621 F-also given as 297 c @ 5mmHg  
FREEZING POINT: -64 c/-83 F  
SPECIFIC GRAVITY: 1.040 (20/20 C)  
WATER SOLUBILITY: 6 milligrams per litre (24 c)  
IN ONTHER SOLVENTS: soluble in acetone, ethanol and aromatics  
VISCOSITY: 41mPa.s (20 c)  
PH: none – (does not liberate hydrogen ion when dissolved)

6. HAZARDS: Phthalic acid, diisobutyl ester 100%

7. FIRE FIGHTING MEASURES: FLASH PONT: 185 c/365 F (closed cup)  
AUTOIGNITION TEMPERATURE: 432 c/810 F  
FLAMMABLE LIMITS: lower limit is 0.4%; upper limit is not known  
COMBUSTION PRODUCTS: carbon monoxide, nitrogen oxides, part oxidized hydrocarbon fragments  
creating acrid fumes including toxic aldehydes  
FIRE FIGHTING PROCAUTIONS: foam, dry chemical, water fog, water spray only to cool & dilute  
water jets spreads flames; firefighters must wear SCBA  
STATIC DISCHARGE: may accumulate a static charge – high viscosity makes static charge development  
unlikely  
MECHANICAL IMPACT: not sensitive  
CHEMICAL STABILITY: stable; will not polymerize  
REACTIVE WITH: strong oxidizing agents; hydrolyses in strong acids or alkalies  
DECOMPOSITION PRODUCTS: none apart from Hazardous Combustion products

8. PERSONAL PROTECTION MEASURES: HANDS: nitrile or “Viton gloves recommended– 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 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  
of listed chemical substances and mixtures to submit to EPA copies and lists of unpublished health and  
safety studies. 1,2-bezenedicarboxylic acid, bis(2-methylpropyl) ester is included on the list.  
FDA REQUIREMENTS: Diisobutyl is an indirect food additive use only as a component of adhesives

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



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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: 10,000  
SKIN (mg/kg): 10,000  
LC50 ppm INHALATION: not known
11. **TOXICOLOGICAL INFORMATION:** EFFECT OF ACUTE EXPOSURE  
SKIN: CONTACT: little to no effect  
SKIN ABSORPTION: no toxic effect likely by this route  
EYE CONTACT: slightly irritating, will not damage eyes  
INHALATION: very low vapour pressure & high viscosity greatly reduce risk inhalation  
INGESTION: diets containing up to 5% had no effect on rodents
12. **ECOLOGICAL INFORMATION:** NE
13. **DISPOSAL CONSIDERATIONS:** Follow applicable laws and regulations.
14. **CARCINOGENIC PROPERTIES & NOTIFICATIONS:** NE
15. **TRANSPORT INFORMATION:** USA 49 CFR  
Product identification number: UN- not regulated for transportation  
Shipping name: not regulated for transportation  
Classification: not regulated  
Label: none required  
WHMIS Class (Canada): not controlled under WHMIS  
HMIS (U.S.A): Health – 0, Fire – 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.



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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.  
WASTE DISPOSAL: DO NOT FLUSH IN SEWER; mix with flammable product and incinerate in approved facility  
ENVIROINFO: this product is metabolized and cannot accumulate in living tissue, this product is readily and rapidly biodegradable in the presence of oxygen; 15% & 35% biodegradation in 7 and 14 days; half-life in air estimated as 41 hours