

 **MATERIAL SAFETY DATA SHEET**

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PRODUCT: DIBUTYL PHTHALATE

PRODUCT NAME: Dibutyl Phthalate
OTHER NAMES: DBP

UN NUMBER: 3082
HAZCHEM CODE: Contain all spillages
PACKAGING GROUP: None assigned
USES: Solvent, plasticiser

DANGEROUS GOODS CLASS & SUB RISK: 9
POISONS SCHEDULE: Not scheduled

STATEMENT OF HAZARDOUS NATURE:

Classified as not hazardous according to criteria of Worksafe Australia.

PHYSICAL DESCRIPTION/PROPERTIES

APPEARANCE/ODOUR: Colourless liquid / mild odour
BOILING POINT RANGE: 335°C
FREEZING POINT: - 37°C
FLASHPOINT (°C): 157°C closed cup; 171°C open cup
FLAMMABILITY LIMITS (% vol in air): LEL 0.47 UEL 2.5 calc.
AUTOIGNITION TEMP: 403°C
VAPOUR PRESSURE: 0.1mmHg/°C at 115°C
EVAPOURATION RATE: approx zero (where n-butyl acetate = 1)
SOLUBILITY IN WATER: negligible (< 0.01% by wt. At 20°C)
DENSITY: 1.049g/cm³ at 20°C
VAPOUR DENSITY (at 1 atmos.): 9.6 (air = 1)
VISCOSITY: 20.5 cP at 20°C

OTHER PROPERTIES: Soluble in most organic solvents

INGREDIENTS:

CHEMICAL ENTITY	CAS No.	PROPORTION
Di-n-butyl phthalate	84-74-2	100%

1. HEALTH HAZARD INFORMATION**Health Effects**

Swallowed: Symptoms, which may become apparent later, include nausea, vomiting and dizziness. Further symptoms are headache, irritation of the eyes, lacerations, conjunctivitis and photophobia.

Eyes: May cause serious irritation, conjunctivitis and copious lacrimation.

Skin: Material may cause slight irritation on prolonged or repeated contact.

Inhaled: If heated vapours or mist may irritate the nose, throat and upper respiratory tract.

MATERIAL SAFETY DATA SHEET**PRODUCT: Dibutyl Phthalate****2. FIRST AID MEASURES**

Swallowed: Seek immediate medical attention. Give water to drink and encourage vomiting. Do not administer fluids to an unconscious person or if suffering convulsions.

Eyes: Flush liberally with water holding eyelids open. If irritation persists seek medical attention.

Skin

contact: Remove contaminated clothing. Wash with soap and water. If irritation persists seek medical attention.

Inhaled: Remove to fresh air. If breathing is difficult or has stopped, carry out artificial respiration or administer oxygen. Keep the person warm and seek immediate medical attention.

First aid facilities: Eye bath recommended to be close at hand.

Advice to doctor: Treat symptomatically.

3. PRECAUTIONS FOR USE

Exposure standards : 5mg/m³ (TLV - TWA) ACGIH 1897 - 1988

Engineering controls: Mechanically ventilate enclosed areas to control airborne levels below recommended exposure levels.

Personal protection: Eyes: Safety glasses
Hands/skin: Gloves (eg. butyl rubber, Viton)

Flammability: Flash point 157°C (Closed Cup) Combustible liquid with a moderate risk of fire when exposed to heat or flame.

4. SAFE HANDLING INFORMATION**Handling, Storage**

& Transport: Store in closed containers in a dry and cool place. Handling of bulk quantities must be carried out in a bunded area. Adequate ventilation should be provided particularly when working at elevated temperatures. Prevent the accumulation of static charges.

Stability & Reactivity: Chemically stable. Materials to avoid:- Strong oxidising agents.

Spills: Remove all sources of ignition. All spillages should be contained with sand, earth or other inert material and scrapped up. Do not allow the material to enter surface water drains. If this should occur inform the local authorities immediately. Collect the material in a closed container or salvage tank and remove to a safe place for disposal by burning. Flush contaminated area with plenty of water.

Disposal: Disposal should be carried out in accordance with national and local regulations eg. in an approved incinerator. Consult local authorities for detailed advice. If correctly incinerated this material will decompose to carbon dioxide and water.

MATERIAL SAFETY DATA SHEET**PRODUCT: Dibutyl Phthalate****Fire/Explosion****Hazard:** Flash point 157°C (CC)**Fire Fighting Measures:****Extinguishing media:** Carbon dioxide, dry chemical, or foam. Water may cause spattering, use water to cool containers exposed to fire.**Protective equipment:** Wear self-contained breathing apparatus in a large fire.**Special precautions:** Prevent contaminated extinguishing water entering drains, sewers or rivers.**5. OTHER INFORMATION****Toxicological Information:**

Not considered carcinogenic by NTP, IARC and OSHA.

No reported evidence of mutagenicity.

CONTACT POINT:**EMERGENCY No. 0419 341 095 any time**

DISCLAIMER: The information given in this data sheet is based on data supplied by the manufacturer and is, to the best of our knowledge, true and accurate, but any recommendations or suggestions that may be made are without guarantee, since the conditions of use are beyond our control. The information and recommendations offered are for the user's consideration and it is the user's responsibility to satisfy themselves that they are suitable and complete for this particular purpose. We recommend that the safety and handling information presented in this data sheet be passed on, in an appropriate format, to your customers and handlers.