

SECTION 1. CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Chemical Name: Dibutyl phthalate

Product Name: KALFLEX-17 (K-17)

Synonyms: (DBP)

Formula: C₆H₄(COOC₄H₉)₂

Company Information: Varteco Química Puntana S.A.
Calle 113 entre 5 y 7, Parque Industrial Norte, San Luis (5700),
Argentina

Emergency Phone Number (24/7): +54 2664 425379
(Mon-Fri 8:30 am to 5:30 pm): +54 11 47543030

SECTION 2. HAZARDS IDENTIFICATIONPOTENTIAL HEALTH EFFECTS

Eye contact: Droplets can cause eye irritation, reddening, swelling and blurred vision.

Skin contact: Mild skin irritation depending on duration of exposure.

Inhalation: Droplets can cause irritation to mucous membranes and respiratory tract. Symptoms are coughing, difficulty in breathing, dizziness, chest pain.

Ingestion: Minimal toxicity.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

The composition of this compound is considered proprietary information. In the event of a medical emergency, detailed information will be provided to the physician. This is not a hazardous product.

SECTION 4. FIRST AID MEASURES

Eye contact: Flush with plenty of water, including eyelids, until irritation subsides (15 minutes). Get medical attention if irritation persists.

Skin contact: Wash with plenty of water; use soap if available.

Inhalation: Wearing appropriate respiratory protection, immediately remove affected person from exposure. If breathing stops, give CPR. Get immediate medical attention.

Ingestion: Rinse mouth with water and get medical attention. Do not induce vomiting.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point: > 160 °C

Auto-ignition Temperature: > 402 °C

Lower Flammable Limit: 0.5 % V/V; Upper Flammable Limit: 2.5 V/V.

Generic Hazards

"Empty" containers retain product residue (liquid and/or fumes) and can be dangerous. Do not pressurize, cut, weld, drill, grind or expose such containers to heat, flame, sparks, static electricity or other sources of ignition: they may explode and cause injury or death. Empty containers should be completely drained and properly disposed of.

Fire Extinguishing Media:

Use water spray or mist, carbon dioxide or dry chemical. Use water spray to cool fire exposed surfaces and to protect personnel.

Avoid spraying water directly into storage containers due to danger of boil over.

Combustion Products

Toxic fumes of carbon monoxide and carbon dioxide.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Land Spill: Eliminate sources of ignition in the area close to the spill. Prevent additional discharge of material. Prevent spill from entering sewers, watercourses, or low areas. Contain spilled liquid with sand or earth. Recover by pumping or with a suitable absorbent. If in public area, advise authorities.

Water Spill: Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations and standards.

SECTION 7. HANDLING and STORAGE

Electrostatic accumulation hazard: Yes, use proper grounding procedure. Additional information on proper handling of materials prone to electrostatic charge accumulation available from the American Petroleum Institute (API).

Handling and storage: Keep containers closed and store in a dry, cool and well ventilated area, away from strong oxidizers, alkalis, acids, nitrates. Do not handle near open flames, heat or other sources of ignition.

SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

TLV-TWA: (ACGIH) 5 mg/m³
Air standard (TWA): 5 mg/m³

Exposure control: Local exhaust ventilation is recommended to control processing fumes close to the source. Fume hood for use of laboratory samples. Mechanical ventilation to be provided indoors.

Personal protection: In open systems where contact is likely, wear long sleeves, chemical resistant gloves and safety glasses with side shields.

SECTION 9. PHYSICAL and CHEMICAL PROPERTIES

Appearance and colour: Clear liquid

Odour: Slight characteristic odour

Relative density (25 °C/25 °C): 0.983 ± 0.002

Density 25 °C: 1.043 ± 0.002

Viscosity 20 °C: 20 Cp

Boiling point: 340 °C

Melting point: -35 °C (760 mmHg)

Insoluble in water and miscible in most organic solvents

SECTION 10. STABILITY and REACTIVITY

Stability: Stable

Conditions to avoid instability: N/A

Hazardous polymerization: None

Conditions to avoid hazardous polymerization: N/A

Conditions and materials to avoid incompatibility: Oxidizing agents

Hazardous decomposition products: None

SECTION 11. TOXICOLOGICAL INFORMATION

See Section 2 for information on potential health effects.

SECTION 12. ECOLOGICAL INFORMATION

- Slow biodegradation (66-98%) (26 weeks).
Expected to biodegrade when released in water, but permanence can range from 10 to 30 days.
Volatilization is not rapid but takes place with a half-life of 47 days in a 1 meter deep river flowing at 1 m/sec at a wind speed of 3 m/sec.
- Bioaccumulation:
Bioconcentration factor (BCF) below 100. No significant bioaccumulation is expected.

SECTION 13. DISPOSAL CONSIDERATIONS

See Sections 5, 6 and 15 for regulatory and disposal information.

SECTION 14. TRANSPORT INFORMATION

DOT: **NOT** regulated

SECTION 15. REGULATORY INFORMATION

CAS #: 84-74-2

EPA REGULATIONS

CERCLA 40 CFR 302.4: Listed under CWA Section 311 (b)(4), under RCRA Section 3001, under CWA Section 307(a) 10 lb (4.535 kg)

SARA EHS 40 CFR 355: Not listed

TSCA: Listed

EPA - Environmental Protection Agency

SARA - Superfund Amendments and Reauthorization Act

RCRA - Resource Conservation and Recovery Act

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

TSCA - Toxic Substances Control Act

SECTION 16. OTHER INFORMATION

Hazard classification: In accordance with National Fire Protection Association Standard NFPA 704 it is classified as:

Health	(0) Minimal
Flammability	(1) Slight
Reactivity	(0) Minimal

Note: The information contained in this safety data sheet is accurate to the best of our knowledge. We have reviewed the information provided by reliable sources and such information is believed to be accurate but no guarantees or representations, express or implied, are made as to its correctness or completeness. Health and safety recommendations provided in this safety data sheet may not apply to all individuals and/or situations. This product must be evaluated and used in a safe manner and in compliance with all applicable laws and regulations.

NA: Not applicable

N/AV: Not available