

SECTION 1. CHEMICAL PRODUCT and COMPANY IDENTIFICATION**Chemical Name:** Diethylene glycol dibenzoate and dipropylene glycol benzoate**Product Name:** KALFLEX-50 (K-50)**Synonyms:** -----**Formula:** C₁₈H₁₈O₅ and C₂₀H₂₂O₅**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 IDENTIFICATION****POTENTIAL 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 upper respiratory tract. Symptoms are coughing, difficulty in breathing, dizziness, chest pain.**Ingestion:** Can cause symptoms of gastrointestinal irritation with onset of vomiting.

Chronic toxicity: No data available for exposure in humans. Consequently, the health effects described are based on experience with chemically similar substances.

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). Contact lenses should be removed only by qualified persons. 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. If vomiting occurs, place affected person with the head down or on left side to keep airways clear and prevent aspiration.**SECTION 5. FIRE FIGHTING MEASURES**

Flash Point: > 200 °C

Flammable Limits: N/AV

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.

COPIA CONTROLADA

Avoid spraying water directly into storage containers due to danger of boil over. Use self-contained breathing apparatus.

Combustion Products

Toxic fumes of carbon monoxide and carbon dioxide.

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 and place in labelled drums for disposal. 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. Avoid breathing vapours. Wash hands with soap and water after handling.

SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Diethylene glycol dibenzoate	Dipropylene glycol benzoate
Oral LD ₅₀ (rats): 2830 mg/kg	Oral LD ₅₀ (rats): 9800 mg/kg

TLV: Not determined by ACIGH

CARCINOGENIC (IARC / NTP / 29 CFR): No

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: Colourless liquid

Odour: Slight characteristic odour

Initial boiling point: 231 °C

Melting point: can start to solidify at 28 °C

Specific gravity: 1.146 g/cm³

Slightly soluble in methanol, diethyl ether, acetone. Very slightly soluble in hot and cold water, and octanol.

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: Highly reactive with strong oxidizing agents

Hazardous decomposition products: None

SECTION 11. TOXICOLOGICAL INFORMATION

See Section 2 for information on potential health effects.

SECTION 12. ECOLOGICAL INFORMATION

Environmental effects, product behaviour and impact:

- No data available

Ecotoxicity, product behaviour and impact:

- No data available

SECTION 13. DISPOSAL CONSIDERATIONS

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

SECTION 14. TRANSPORT INFORMATION

Land Transportation (Law No. 24.449, Resolution No. 195/97 and Mercosur)

- Proper Shipping Name; Not listed as hazardous.

Sea Transportation (IMO Code)

- Proper Shipping Name; Not listed as hazardous.

SECTION 15. REGULATORY INFORMATION

CAS #: [120-55-8] [27138-31-4]

EPA REGULATIONS: Not listed

EPA - Environmental Protection Agency

SECTION 16. OTHER INFORMATION

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

Health	(1) Slight
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