

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

- 1.1 Substance: **KALFLEX 14 OP**
1.2 Use of the substance: **PLASTICIZER/STABILIZER FOR PVC POLYMER**
1.3 Company identification: **VARTECO QUIMICA PUNTANA S.A.**
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2. HAZARDS IDENTIFICATION

- Directive 67/548/EEC: not classified as hazardous
- Directive 1999/45/CE: not classified as dangerous
- Carcinogen status: OSHA: no - NTP: no - IARC: no

Note: First-aid measures mentioned paragraph 4 must be followed even when this material is not classified under regulations mentioned above.

3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Main component: Epoxidized soybean oil
Average Molecular weight: 974
3.2 Directive 1999/45/EC: preparation not classified as dangerous
3.3 Additive: bis (2-ethylhexyl) phthalate (used as additive up to 5% max)
3.4 Substances constituents of this preparation with concentration:
a. ≥ 1 % by weight present NO HEALTH or ENVIRONMENTAL HAZARD within the meaning of Directive 67/548/EEC and ARE NOT ASSIGNED COMMUNITY WORKPLACE EXPOSURE LIMITS,
b. $\geq 0,1$ % by weight are NOT PERSISTENT, BIOACCUMULATIVE and TOXIC or VERY PERSISTENT and VERY BIOACCUMULATIVE.

3.5

EINECS	Formula	Name EINECS	CAS	ECHA Pre-Reg Nbr
232-391-0	---	Soybean oil, Epoxidized	8013-07-8	05-2114560289-40-0000
204-211-0	C ₂₂ H ₃₈ O ₄	bis(2-ethylhexyl) phthalate	117-81-7	05-2118714715-41-0000

4. FIRST-AID MEASURES

- INHALATION: No first-aid measures are usually needed. If adverse effects occur get immediate medical attention.
- SKIN CONTACT: Wash skin with soap and water while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.
- EYE CONTACT: Flush eyes with plenty of water. Then get immediate medical attention.

- INGESTION: If a large amount is swallowed, get medical attention.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media: regular dry chemical, carbon dioxide, water, regular foam
Large fires: Use regular foam or flood with fine water spray. Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.
- Extinguishing media which shall not be used for safety reasons: no
- Special exposure hazards: Slight fire hazard.
- Special protective equipment for fire-fighters: respiratory protective device, protective clothing.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions: removal of ignition sources (do not smoke), provision for sufficient ventilation, prevent skin and eye contact,
- Environmental precautions: keeping away from drains, surface- and ground-water and soil.
- Methods for cleaning up: use of absorbent material if needed. Sweep up spilled substance. Store in a closed container.

7. HANDLING AND STORAGE

- 7.1 Handling: no special handling advice required.
- 7.2 Storage: store in a cool, dry area at temperatures above 10°C.
- 7.3 Specific use(s): no

8. EXPOSURE CONTROLS-PERSONAL PROTECTION

- 8.1 Exposure limit values: no
- 8.2 Exposure controls: no
 - 8.2.1 Occupational exposure controls
 - (a) Respiratory protection: P1 filter respirator for inert particles.
 - (b) Hand protection: gloves
 - (c) Eye protection: safety glasses
 - (d) Skin and body protection: lightweight protective clothing. Use antistatic shoes.
 - General sanitary measures: do not eat, drink or smoke while working. Wash hands with soaps and water before breaks. Shower or bathe at the end of the workday. Keep work clothes separate.
 - 8.2.2 Environmental exposure controls: no

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 General information
 - Appearance: liquid, transparent
 - Colour: light yellow
 - Odour: slightly oily
- 9.2 Important health, safety and environmental information
 - pH value: N/A

- Boiling point: 239 °C a 5 mm de Hg
 - Flash point : N/A
 - Flammability (limits in air): N/A
 - Explosive property: no
 - Oxidising properties: no
 - Vapour pressure at 20 °C: N/A
 - Density: N/A
 - Solubility: Soluble in most of organic solvents
 - Water solubility: insoluble
 - Partition coefficient n-octanol/water: N/A
 - Viscosity: N/A
 - Vapour density: N/A
 - Evaporation rate: N/A
- 9.3 Other information
- Melting point: N/A
 - Ignition temperature >340 °C.
 - Apparent specific weight at 25°C: 0.995 g/cc

10. STABILITY AND REACTIVITY

- 10.1 Conditions to avoid: Avoid heat, flames, sparks and other sources of ignition.
10.2 Material to avoid: alkalises, oxidizers.
10.3 Hazardous decomposition products: Thermal decomposition products: oxides of carbon.
10.4 Reactivity: Stable at normal temperatures and pressure.

11. TOXICOLOGICAL INFORMATION

- 11.1 DL₅₀/oral/rat: 40 gm/kg

12. ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity: no
12.2 Mobility: no
12.3 Persistence degradability: no
12.4 Bioaccumulative potential: no
12.5 Results of PBT assessment: no
12.6 Other adverse effects: no

13. DISPOSAL CONSIDERATIONS

- Waste from residues/unused products: can be land-filled in accordance with local and national regulations.
- Contaminated packaging: in accordance with local and national regulations.

14. TRANSPORT INFORMATION

- Not classified as dangerous in the meaning of transport regulations: IMDG, ADR, RID, ICAO, IATA.

15. REGULATORY INFORMATION

- Classification according to European Directive 90/492/EEC on hazardous preparations.

- Labelling: European Directive 88/379/EEC

According to our data the product is not harmful within the meaning of the above mentioned directive.

- Inventory Status

On TSCA Inventory

July 2006 TSCA Inventory.

On DSL

Supplement to Canada Gazette, Part I, January 26, 1991.

On EINECS

Annex to Official Journal of the European Communities, 15 June 1990.

On ENCS (Japan)

Unlisted chemical name. For ENCS chemical class or category name, refer to ENCS No. 2-1434.

On AICS

Australian Inventory of Chemical Substances, June 1996 Ed.

On ECL

Korean Existing Chemicals List, January 1997.

On PICCS

Philippines Inventory of Chemicals and Chemical Substances, 2000.

On ASIA-PAC

On NZIoC

New Zealand Inventory of Chemicals, 2006.

This substance has HSNO approval.

- German Water hazard class (WGK):

ID-Number: 762 - State of classification: VwVwS - Classification under hazard to water: nwg

16. OTHER INFORMATION

R-phrase(s): none

S-phrase(s): none

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.