

MATERIAL SAFETY DATA SHEET

Last Review: 07/09/2017

I. GENERAL INFORMATION

Manufactured by: **SURQUIMICA S.A.**
Calle 38, contiguo al cementerio La Uruca
San José, Costa Rica, Centro América

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Fax: (506) 2257-2028

Emergency telephone: **CHEMTREC: 1-800-424-9300 (USA)**
703-527-3887

SURQUIMICA S.A.: (506) 2211-3911

Product name: PEGAFORTE CEMENTO DE CONTACTO
(PEGAFORTE CONTACT CEMENT)

Product code: 525-23790

II. HAZARDOUS COMPONENTS

| <u>Componentes Peligrosos</u> | <u>No CAS</u> | <u>% P/P</u> | <u>TLV / ppm</u> |
|-------------------------------|---------------|--------------|------------------|
| Hidrocarburo alifático | 64742-49-0 | 25-35 | 50 |
| Fenil metano | 108-88-3 | 25-35 | 150 |
| Acetona | 67-64-1 | 25-35 | 750 |

III. HEALTH HAZARD

General overview: Flammable liquid and vapor. Harmful if swallowed, inhaled or absorbed through skin. Causes irritation to skin, eyes and respiratory tract.

Ingestion: Harmful if swallowed. May cause gastrointestinal disturbance with headache, dizziness and a feeling of intoxication. Symptoms may include nausea, vomiting and diarrhea. May cause central nervous system depression. Symptoms may include lethargy, drowsiness, staggering and sleepiness.

Skin contact: Prolonged and repeated skin contact may cause dermatitis. Symptoms include redness, itching, and pain. May produce blisters. May be absorbed through the skin.

Inhalation: Prolonged, repeated, or high exposures may cause weakness and depression of the central nervous system. In extreme cases, drowsiness and possibly loss of consciousness may occur. Higher exposures can cause a build-up of fluid in the lungs (pulmonary edema). Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes).

Eye contact: Risk of serious damage to eyes. Mists and vapors may cause moderate to severe eye irritation, redness, pain, and corneal damage.

Primary routes of entry: Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

IV. FIRST AID PROCEDURES

Ingestion: If ingested, do not induce vomiting. If conscious, drink 8-10 oz. of water promptly. Never give anything by mouth to an unconscious person. Call a physician immediately.

Inhalation: Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Skin contact: In case of contact, wash skin immediately with soap and water.

Eye contact: If material gets into eyes, flush with water immediately for 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

V. FIRE AND EXPLOSION HAZARD DATA

Flash point (°C): -17 **Method:** N.D.

Flammability limits % (V): **LIE:** N.D; **LSE:** N.D.

Extinguishing media: Carbon Dioxide, Dry Chemical, Foam, Water Fog

Fire and explosion hazards: Flammable liquid. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back. Sealed containers may rupture when heated. Sensitive to static discharge. Tanks, cisterns or containers cool with water.

Firefighting procedures: In the event of fire, wear self-contained breathing apparatus. Evacuate personnel to safe areas. Consider the wind direction. Water spray may be used to keep fire exposed containers cool. Do not allow water runoff to enter sewers or waterways. Do not allow water runoff to enter sewers or waterways.

Hazardous combustion products: Carbon dioxide and carbon monoxide. Toxic vapors.

VI. SPILL OR LEAK PROCEDURES

Steps if spilled: Ventilate area of leak or spill. Dike to prevent entering any sewer or waterway. Use non-sparking tools and equipment. Transfer liquid to a holding container. Keep people away from and upwind of spill/leak. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust.

If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to clean spills away from exposure.

Waste disposal: Do not dispose of waste into sewer. Do not empty into drains. Do not flush into surface water or sanitary sewer system. If recycling is not practicable, dispose of in compliance with the Environmental Protection Local Regulations.

VII. HANDLING AND STORAGE

Handling instructions: Keep out of reach of children. Hazardous residue may remain in emptied container. Do not reuse empty containers without commercial cleaning or reconditioning. Take precautionary measures against static discharges. Use non-sparking type tools and equipment, including explosion proof ventilation. Keep away from open flames, hot surfaces and sources of ignition. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, sparks, flame, static electricity or other sources of ignition: they may explode and cause injury or death. Handle in accordance with good industrial hygiene and safety practice.

Storage: Storage and use areas should be No Smoking areas. Keep containers closed when not in use. Keep in a well-ventilated place. Keep in a dry, cool place. Separate from incompatibles. **Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid).** Do not attempt to clean empty containers since residue is difficult to remove.

VIII. PROTECTION INFORMATION

Ventilation: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Respiratory protection: If the exposure limit is exceeded, a half-face organic vapor respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece organic vapor respirator may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.

Skin protection: Wear neoprene or nitrile gloves.

Eye protection: Use chemical safety goggles and/or a full face shield where splashing is possible.

Other protective equipment: Safety shower and eyewash station should be located in immediate work area.

IX. PHYSICAL AND CHEMICAL DATA

| | |
|---|---|
| Color: Various colors | Density, lower value according to color, (g/mL): 0.80 |
| Form/Appearence: Liquid | Density, higher value according to color, (g/mL): 0.84 |
| Odor: Aromatic solvent | pH: N.A. |
| % Volatile (p/p): N.D. | Flash point (° C): -17 |
| Vapor density (air = 1.0): > 1.0 | V.O.C. (g/L): N.D. |
| Solubility in water: Insoluble | |

X. ESTABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Hazardous polymerization: No

Incompatibility: Avoid oxidizing agents, acids and strong bases

Decomposition products: Thermal decomposition can lead to release of irritating gases and vapors.

XI. TOXICOLOGICAL INFORMATION

There is no data for the product as is; criteria are issued according to the data reported by the raw material manufacturers.

| <u>Componente Peligroso</u> | <u>No CAS</u> | <u>Oral DL50</u> |
|------------------------------------|----------------------|-------------------------|
| Hidrocarburo alifático | 64742-49-0 | 5000 mg/kg |
| Fenil metano | 108-88-3 | 5580 mg/kg |
| Acetona | 67-64-1 | 5800 mg/kg |

DL50(mix) = 5180 mg/kg

XIII. DISPOSAL PRODUCT

Disposal: Do not dispose of waste into sewer. Do not empty into drains. Do not flush into surface water or sanitary sewer system. If recycling is not practicable, dispose of in compliance with the Environmental Protection Local Regulations. Do not attempt to clean empty containers since residue is difficult to remove.

XIV. TRANSPORTATION INFORMATION

Shipping name: Adhesivos, que contengan líquidos inflamables

UN number: 1133

Class: 3

Packing group: II

XV. REGULATORY INFORMATION

National regulation:

No Information.

Other regulations:

No Information.

XVI. OTHER INFORMATION

This MSDS include the following products, (Identified by code: 23790100)

Hazardous Material Information System: HMIS

Health: 2 - Moderate
Fire: 3 - Highly Flammable
Reactivity: 0 - None
Personal Protection: G

National Fire Proteccion Association: NFPA

Health: 2 - Moderate
Fire: 3 - Highly Flammable
Reactivity: 0 - None
Speccial: Snfpa

The degrees of HMIS and NFPA imply the interpretation of the data that can vary from company to company, their objective it is to allow a quick and general identification of the magnitude of the danger specific. In order to manage this material in sure form it should be kept in mind the entirety of the information contained in this MSDS.

Note: The destinatary should send this MSDS to any transporter or eventual user of out product. The information offered in this sheet is based on data supplied by our providers and is determinate in our plant. Although we think that we are reliable, this product is sold to be used with a defined propose. SURQUIMICA S.A. does not assume any responsibility for the damage that this product can cause to any buyer or third person.