

## SAFETY DATA SHEET

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.

### SECTION 1: IDENTIFICATION

**Product Name** TAPA FUGAS K11

#### 1.1 Other means of identification

**Product code(s)** TF K11

**Synonyms** TF K11 SERINGA – 10ml, TF K11 GS – 10ml, TFK11 REFIL – 60ml, TF MD 60ml, TF MD 118ml

**Product Usage** Refrigerant leak sealant in refrigeration and air conditioning systems.

**Restrictions** NA

#### 1.2 Supplier details on safety data

**Manufacturer** K11 INDÚSTRIA E COMÉRCIO LTDA  
 WWW.K11.COM.BR  
 CNPJ: 16.919.091/0001-01  
 Inscrição Estadual: 239236150112  
 Rua Alvarenga Peixoto, 143 - Galpão 01 - LARANJEIRAS  
 CAIEIRAS – SP - Brasil - CEP: 07739-095

**Email address** [k11@k11.com.br](mailto:k11@k11.com.br)

**Emergency telephone number** CEATOX (CENTRO DE ASSISTÊNCIA TOXCOLÓGICA) - 0800 014 8110  
 SAMU 192 - CORPO DE BOMBEIROS 193 – IBAMA 152  
 Serviço do Hospital das Clínicas da Faculdade de Medicina da USP recebe ligações de todo o Brasil 24 horas

### SECTION 2: HAZARDS IDENTIFICATION

**GHS Classification** Not classified as dangerous under EC/GHS-criteria.

**Humam Health Hazard** None

**Physio-chemical and environmental hazard and effects** None

**Label Elements** None

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	% BY WEIGHT	CAS #	HAZARD	DANGER SYMBOL(S)
Sealant	100	Trade Secret	None	None

#### SECTION 4: FIRST AID MEASURES

<b>Swallowing</b>	Do not induce vomiting. Obtain medical attention if discomfort persists. This is not a toxic substance.
<b>Inhalation</b>	Remove to fresh air. If mist is present, see Section 8.
<b>Skin</b>	Wash skin with soap and water.
<b>Eye contact</b>	Flush eyes thoroughly with water for several minutes. Obtain medical attention if discomfort persists.

#### SECTION 5: FIRE-FIGHTING MEASURES

<b>Flash Point</b>	>93.4°C (200°F) PMCC, ASTM D93
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##### Extinguishing media:

<u>Suitable:</u>	Extinguish with: - dry chemical - carbon dioxide (in case of small fires) - water fog - foam - sand or earth
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<u>Unsuitable:</u>	Do not use water jet. Sealant will float on water and can spread any fire.
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<b>Special firefighting procedures</b>	Do not direct a solid stream of water or foam into burning material; this may cause spattering and spread the fire. If a rail or tank truck is involved in a fire. ISOLATE for 800 meters (0.5 mile) in all directions. Shut off fuel to fire if it is possible to do so without hazard. If this is possible, withdraw from the area and let the fire burn out under controlled conditions. Withdraw immediately in case of rising sound from vending safety device or any discoloration of tank due to fire.
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<b>Special protective equipment for firefighters</b>	Self-contained breathing apparatus.
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<b>Unusual fire and explosion hazards</b>	Following products may be produced during a fire: Oxides of carbon.
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#### SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Wear suitable protective equipment.
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<b>Personal protective equipment required</b>	Avoid runoff to sewers of waterway. Dike area of spill to prevent spreading and pump liquid to salvage tank. Waste: avoid washing into watercourses. Use methods consistent with local regulations or incinerate.
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##### 6.1 Methods for cleaning up

Dike to contain spill. Absorb on inert material such as sand, earth, vermiculite. Stop the leak if it can be done without risk. Floor may be slippery; use care to avoid falling.

#### SECTION 7: HANDLING AND STORAGE

##### 7.1 Handling

Do not handle at temperatures >+40°C, unless wearing appropriate protective equipment.

<b>Ventilation</b>	General (mechanical) room ventilation is expected to be satisfactory for use at room temperature.
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##### 7.2 Storage

<b>Storage requirements</b>	Keep away from heat, sparks and flame. Do not store at temperatures: >+40°C without proper safety review of storage equipment. Store protected from light. Store sealed in original container.
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## SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

### 8.1 Exposure limit values

This product, as supplied, does not contain any hazardous materials with occupational exposure limits.

### 8.2 Occupational exposure controls

<b>Respiratory protection</b>	None expected be need. If used in a way that generates a vapor/mist, wear an organix vapor respirator.
<b>Hand protection/protective gloves</b>	Wear oil resistant gloves.
<b>Eye protection</b>	Face shield or chemical splash goggles in case of splashing.
<b>Skin protection</b>	Wear protective clothing, such as long sleeves to minimize skin contact.
<b>Environmental Exposure Controls</b>	Store in a second containment to catch leakages.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

The data below are typical values and do not constitute a specification.

### APPEARANCE:

<b>Physical State</b>	Liquid
<b>Color</b>	Water-white
<b>Odor</b>	None or Mild Petroleum
<b>Odor Threshold</b>	N/A

### Important health, safety and environmental information

<b>Flammability</b>	No Data
<b>Evaporation Rate</b>	No Data
<b>Decomposition Temperature</b>	No Data
<b>Flash Point</b>	>93.4°C (200°F) Method: PMCC, ASTM D93
<b>Upper explosion limits</b>	Not determined
<b>Lower explosion limits</b>	Not determined
<b>Vapor Pressure</b>	<0.1 kPa at 20°C
<b>Density</b>	0.85 g/cm <sup>3</sup> at 20°C
<b>Bulk Density</b>	Not available
<b>Solubility in Water</b>	Insoluble
<b>Solubility in organic solvents</b>	Soluble
<b>Kinematic viscosity</b>	>20.5 mm <sup>2</sup> /s at 40°C
<b>Boiling Point:</b>	N/A
<b>PH</b>	N/A
<b>Specific gravity (H2O=1)</b>	<1
<b>Partitioning coefficient</b>	log POW: >6 This product is soluble in oil.
<b>Vapor Density</b>	N/A
<b>Percent volatiles</b>	Nil
<b>Autoignition Temperature</b>	No Data
<b>Melting Point</b>	N/A

**SECTION 10: STABILITY AND REACTIVITY**

<b>Reactivity</b>	May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
<b>Chemical Stability</b>	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
<b>Conditions/Materials to avoid</b>	Extreme temperature and direct sunlight/ultraviolet light and strong oxidizing agents.
<b>Hazardous combustion products</b>	Bruning can produce the following combustion products: Oxides of Carbon and Soot.
<b>Hazardous polymerization</b>	Hazardous polymerization will not occur.

**SECTION 11: TOXICOLOGICAL INFORMATION**

<b>Eye Irritation</b>	The material is not considered an eye irritant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.
<b>Acute Dermal Toxicity</b>	The material is not considered a dermal toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.
<b>Skin Irritation</b>	The material is not considered a skin irritant. The Product has not been tested. The statement is based on evaluation of data for similar materials or products components.
<b>Skin Sensitization</b>	The material is not considered a skin sensitizer. The Product has not been tested. The statement is based on evaluation of data for similar materials or products components.
<b>Acute Oral Toxicity</b>	The material is not considered an oral toxicant. The Product has not been tested. The statement is based on evaluation of data for similar materials or products components.
<b>Acute Inhalation Toxicity</b>	The material is not considered as inhalation toxicant. The Product has not been tested. The statement is based on evaluation of data for similar materials or products components.
<b>Acute Toxicity Estimate</b>	Not Determined
<b>Germ Cell Mutagenicity</b>	The material is not considered a mutagen. The Product has not been tested. The statement is based on evaluation of data for similar materials or products components.
<b>Carcinogenicity</b>	The material is not considered a carcinogen. The Product has not been tested. The statement is based on evaluation of data for similar materials or products components.
<b>Reproductive Toxicity</b>	The material is not considered a reproductive toxicant. The Product has not been tested. The statement is based on evaluation of data for similar materials or products components.
<b>Specific Target Organ Toxicity</b>	Single Exposure: The material is not considered a target organ toxicant (single exposure). The Product has not been tested. The statement is based on evaluation of data for similar materials or products components.
<b>Specific Target Organ Toxicity</b>	Repeated Exposure: The material is not considered a target organ toxicant (repeated exposure). The Product has not been tested. The statement is based on evaluation of data for similar materials or products components.
<b>Aspiration Hazard:</b>	The material is not considered an aspiration hazard.

**SECTION 12: ECOLOGICAL INFORMATION**

This product is stable in water and can be mechanically separated from water. The water may be suitable for disposal in a biological waste treatment plant.

<b>Biodegradability</b>	Inherently biodegradable.
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**SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose of in accordance with appropriate Federal, State and local regulations or incinerate.

**SECTION 14: TRANSPORT INFORMATION**

<b>ADR/RID/IMDG/ICAO</b>	This product is not regulated by ADR / RID / IMDG / IATA.
<b>USA</b>	This product is not regulated by DOT
<b>TDG-CANADA</b>	This product is not regulated by TDG.

### SECTION 15: REGULATORY INFORMATION

**EC/GHS classification** According to EC/GHS regulations this product is not classified or labeled.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in SDS's that are copied and distributed for this material. Components present in this product at a level which could require reporting under the statute are:  
 \*\*\*\*NONE\*\*\*\*

**EPA Hazard Categories (SARA 311, 312):** None

**WHMIS Classification** This product is not a WHMIS controlled product

#### CHEMICAL INVENTORY:

<b>Canadá DSL</b>	Compliant.
<b>Europa EINECS</b>	Compliant.
<b>Estados Unidos TSCA</b>	Compliant.
<b>Austrália AIIC</b>	Compliant.
<b>China IECSC</b>	Compliant.
<b>Japão ENCS</b>	Compliant.
<b>Korea KECI</b>	Compliant.
<b>Filipinas PICCS</b>	Compliant.
<b>Nova Zelândia NZLoC</b>	Compliant.
<b>Taiwan TCSI</b>	Compliant.

### SECTION 16: OTHER INFORMATION

#### HMISS RATING

Health: 0	Flammability: 1	Reactivity: 0	PPI: x
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Dispose of in accordance with federal, state and local regulations or incinerate.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose

**End of Safety Data Sheet**