K11 AMÉRICA LTDA - ME
Rua Alvarenga Peixoto, 143 - Galpão 01 - Laranjeiras
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Emergency (CEATOX): 0800 014 8110

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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 REVELA FUGAS K11

1.1 Other means of identification

Product code(s) RFK11 JERINGA - 10ml, RFK11 POUCH - 125ml

Synonyms REVELA FUGAS K11 JERINGA - 10ml, REVELA FUGAS K11 POUCH - 125ml

Product usage Refrigerant leak detector dye for refrigeration and air conditioning systems.

Restrictions NA

1.2 Supplier details on safety data

Manufacturer
K11 AMÉRICA LTDA - ME
WWW.K11.COM.BR
CNPJ: 16.919.091/0001-01
Inscrição Estadual: 239.236.150.112 Inscrição Municipal: 22578
Rua Alvarenga Peixoto, 143 - Galpão 01 - LARANJEIRAS
CAIEIRAS – SP - Brasil - CEP: 07739-095

Email address **k11@k11.com.br**

Emergency telephone number
CEATOX (CENTRO DE ASSISTÊNCIA TOXCOLÓGICA) - 0800 014 8110
SAMU 192 - FIRE DEPARTMENT 193 – IBAMA 152
Service of the Hospital das Clínicas of the Faculty of Medicine of USP receives calls from all over Brazil 24 hours a day

SECTION 2: HAZARDS IDENTIFICATION

Classificación GHS No clasificado como peligroso según los criterios EC/GHS.

Peligro para la salud humana Ninguno

Peligros y efectos físico-químicos y ambientales Ninguno

Elementos de etiquetado Ninguno

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	% BY WEIGHT	CAS #	HAZARD	DANGER SYMBOL(S)
Fluorescent Dye	20-40%	Trade Secret	None	None
POE Oil	60-80%	Trade Secret	None	None

SECTION 4: FIRST AID MEASURES

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

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point	> 93.4°C (200F) PMCC, ASTM D93
Appropriate extinguishing media	Dry chemical Carbon dioxide (in case of small fires) Water fog Foam Sand or earth
Inadequate extinguishing media	Do not use water jet. Sealant will float on water and can spread any fire.
Special firefighting procedures	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 impossible, withdraw from the area and let the fire burn out under controlled conditions. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire.
Special protective equipment for firefighters	Self-contained breathing apparatus.
Unusual fire and explosion hazards	Following products may be produced during a fire: Oxides of carbon.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear suitable protective equipment.
Environmental precautions	Avoid runoff to sewers or waterways. 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.

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 >+40oC, unless wearing appropriate protective equipment.
General (mechanical) room ventilation is expected to be satisfactory for use at room temperature.

7.2 Storage

Keep away from heat, sparks and flame.
Store at temperatures between 5°C and 40°C.
Store sealed in original container protected from light.
Keep container tightly closed in a dry and well-ventilated place.

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

Respiratory protection	None expected to be needed. If used in a way that generates a vapor/mist, wear an organic vapor respirator.
Hand protection/protective gloves	Wear oil resistant gloves.
Eye protection	Face shield or chemical splash goggles in case of splashing.
Skin protection	Wear protective clothing, such as long sleeves to minimize skin contact.
Environmental Exposure Controls	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:

Physical state	Liquid
Color	Amber
Odor	None or Mild Petroleum

Información importante sobre salud, seguridad y medio ambiente

Flammability	No Data
Evaporation Rate	No Data
Decomposition Temperature	No Data
Flash Point	>93.4oC (200oF) Method: PMCC, ASTM D93
Upper explosion limits	Not determined
Lower explosion limits	Not determined
Vapor Pressure	<0.1 kPa at 20ºC
Density	0.96 g/cm3 at 20oC
Solubility in Water	Insoluble
Solubility in organic solvents	Soluble
Kinematic viscosity	> 20.5 mm2/s at 40ºC
Boiling point	N/A
Specific gravity (H2O=1)	<1
Partitioning coefficient	log POW: >6 This product is soluble in oil.
Vapor Density	N/A
Percent volatiles	Nil
Autoignition Temperature	No Data
Melting Point	N/A

SECTION 10: STABILITY AND REACTIVITY

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

SECTION 11: TOXICOLOGICAL INFORMATION

Eye Irritation	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.
Acute Dermal Toxicity	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.
Skin Sensitization	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 product components.
Acute Oral Toxicity	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 product components.
Acute Inhalation Toxicity	The material is not considered an inhalation toxicant. The product has not been tested. The statement is based on evaluation of data for similar materials or product components.
Germ Cell Mutagenicity	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 product components.
Carcinogenicity	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 product components.
Reproductive Toxicity	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 product components.

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 wastewater treatment plant.

SECTION 13: DISPOSAL CONSIDERATIONS

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

SECTION 14: TRANSPORT INFORMATION

ADR/ADN/RID/IMDG/ICAO/IATA	This product is not regulated by ADR / RID / IMDG / IATA.
USA	This product is not regulated by DOT.
TDG-CANADA	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:

Canada DSL	Compliant.
Europe EINECS	Compliant.
United States TSCA	Compliant.
Australia AIIC	Compliant.
China IECSC	Compliant.
Japan ENCS	Compliant.
Korea KECI	Compliant.
Philippine PICCS	Not Compliant.
New Zealand NZLoC	Compliant.
Taiwan TCSI	Compliant.

Product not classified as dangerous according to CE/GHS regulations.

SECTION 16: OTHER INFORMATION

HMIS RATING

Health: 2	Flammability: 1	Reactivity: 0	PPI: x

This Safety Data Sheet follows EC Directive 1907/2006.

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