



K-FLEX

K-FLEX MALAYSIA SDN. BHD.

Safety Data Sheet

K-FLEX FOAM TAPE

Issued date: 01/11/17

Revision date: 16/10/19

Revision No.: 02

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY /

Commercial Name: **K-FLEX FOAM TAPE**
 Manufacturer: **K-FLEX Malaysia Sdn. Bhd.**
 Lot 2752, Jalan Raja Nong,
 Taman Klang Jaya,
 41200 Klang, Selangor, Malaysia.
 Phone Number: +603 5162 7899
 Fax Number: +603 5162 3799
 Emergency Telephone Number: +603 5162 7899 (9.00 – 17.00 hours)

In case of accident, locate the nearest antipoinson centres in the following link:
 WHO <http://apps.who.int/poisoncentres/>

2 HAZARDS IDENTIFICATION

2.1. Classification of the article:

This product is a rubber type compound. It contains synthetic polymers, fillers, plasticizers and rubber chemicals. Since all these materials are bound in a polimer matrix and considered an 'article' under 29 CFR Part 1910.1200, this product does not classify as a hazardous material as defined by OSHA regulatons (29 CFR Part 1910.1200).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Symbols:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

None

2.3. Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. This product may release carbon dioxide (CO₂) if it is heated to high temperatures.

3 COMPOSITION/INFORMATION ON INGREDIENTS

This article is a black sponge rubber adhesive tape, it consists of a tacky sponge rubber with a paper release. No hazardous components are released under normal conditions.

<u>Chemical Nape</u>	<u>CAS Number</u>	<u>Concentration</u>
None reported	Not reported	N/Ap

4 FIRST-AID MEASURES

4.1. Description of first aid measures

4.1.1 In case of skin contact:

During the processing of the product the contact with skin is unlikely. Use protective gloves.

The product has also no special risks related to its use.

4.1.2 In case of eyes contact:



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During the processing of the product the contact with eyes is unlikely. The contact with the eyes can occur through contaminated hands or dust.

Rinse immediately with plenty of water and seek medical advice.

The product has also no special risks related to its use.

4.1.3 In case of ingestion:

Due to the shape of the product, is unlikely that the swallow occurs. The contact with the mouth can occur through contaminated hands or dust.

The product has also no special risks related to its use.

4.1.4 In case of Inhalation:

During the processing of the product, inhalation of particles and dust is unlikely.

The product has also no special risks related to its use.

4.2. Most important symptoms and effects, both acute and delayed No known symptoms to date.

4.3. Indication of any immediate medical attention and special treatment needed Treatment: No known treatment to date.

5 FIRE-FIGHTING MEASURES

5.1. Extinguishing media.

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂). Chemical dry powder. Water spray.

Extinguishing media which must not be used for safety reasons:

No data available.

5.2. Special hazards arising from the substance or mixture.

Burning smoke and fumes of carbon oxide (CO), carbon dioxide (CO₂), sulphur dioxide (SO₂) and alogens (Br, Cl).

5.3. Advice for fire-fighters.

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures.

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions.

The product does not present any risk for the environment, however, do not allow to enter soil/subsoil and the runoff into surface water or drains as a waste.

Retain contaminated washing water and dispose it.

In case of run-off into waterways, soil or drains as a waste, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up.

Washing avoiding penetration of the pigments supported by the film into soil/subsoil, the runoff into surface water or drains.

Suitable material for taking up: absorbing material, organic, sand.

Wash with compatible material

6.4. Reference to other sections

See also section 8 and 13

7 HANDLING AND STORAGE



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- 7.1. Precautions for safe handling
Provide adequate ventilation. Use personal protective equipment as required. Avoid breathing fumes. Avoid contact with skin and eyes. Keep away from extreme heat and flame. Keep away from incompatibles. Keep containers closed when not in use. Wash thoroughly after handling.
- 7.2. Conditions for safe storage
Store in a cool, dry, well-ventilated area. Store away from incompatible materials. Protect from damage.
- 7.3. Incompatible materials
Acids; Strong oxidizing agents; Bases; Reducing agents.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
None reported	N/Av	N/Av	N/Av	N/Av

- 8.1 Ventilation and engineering measures
Provide adequate ventilation. If product is processed in a manner that generates dusts or fumes, provide mechanical ventilation to control airbourne exposure levels.
- 8.2 Respiratory protection
Not required under normal conditions of handling. If product is processed in a manner that generates dusts or fumes, conduct air monitoring to assess the need for respiratory protection. If respiratory protection is warranted, wear NIOSH-approved respirators. Advice should be sought from respiratory protection specialists.
- 8.3 Skin protection
Not required under normal conditions of handling. For prolonged or repeated contact use protective gloves. Advice should be sought from glove suppliers.
- 8.4 Eye / face protection
Not required under normal conditions of handling. If product is processed in a manner that generates dusts or fumes, wear as appropriate: Safety glasses with side-shields; Goggles.
- 8.2.5 **Other protective equipment**
An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.
- 8.2.6 General hygiene considerations
Avoid breathing fumes. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid article. This article is a black, tacky rubber compound. It is supplied as a tape on a release paper.
Odour	Not available.
Odour threshold	N/Av
pH	N/Av
Melting/Freezing point	N/Av
Initial boiling point and boiling range	N/Av
Flash point	None
Flashpoint (Method)	N/Av
Evaporation rate (BuAe = 1)	N/Av
Flammability (solid, gas)	Not flammable.



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Lower flammable limit (% by vol.)	N/Ap
Upper flammable limit (% by vol.)	N/Ap
Oxidizing properties	None.
Explosive properties	Not explosive
Vapour pressure	N/Ap
Vapour density	N/Ap
Relative density / Specific gravity	N/Av
Solubility in water	insoluble
Other solubility(ies)	None known.
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution	N/Av
Auto-ignition temperature	N/Av
Decomposition temperature	Not available.
Viscosity	N/Ap
Volatiles (% by weight)	Not available.
Volatile organic Compounds (VOC's)	None.
Absolute pressure of container	N/Ap
Flame projection length	N/Ap
Other physical/chemical comments	No additional information.

10 STABILITY AND REACTIVITY

- 10.1. Reactivity
Stable under normal conditions.
- 10.2. Chemical stability
Stable under normal conditions.
- 10.3. Possibility of hazardous reactions
Reaction may occur with strong oxidizing agent.
- 10.4. Conditions to avoid
Eliminate ignition sources.
- 10.5. Incompatible materials
Strong mineral acids (nitric acid, hydrochloric acid, sulfuric acid, hydrofluoric acid), bromine, chlorine, hydrogen peroxide, aniline, benzene, chloroform, Freon 11, fuel FAM, carbon tetrachloride, trichloroethylene and xylene (reaction moderate or intensive).
Avoid contact with strong oxidants.
- 10.6. Hazardous decomposition products
Decomposition products in case of fire: carbon oxide (CO), carbon dioxide (CO₂), and alogens (Br, Cl).

11 TOXICOLOGY INFORMATION

- 11.1. Information on toxicological effects
 - 11.1.1 Routes of entry inhalation Yes
 - 11.1.2 Routes of entry skin & eye Yes
 - 11.1.3 Routes of entry Ingestion Yes
 - 11.1.4 Routes of exposure skin absorption No
- 11.2 Potential Health Effects
Signs and symptoms of short-term (acute) exposure
 - 11.2.1 Sign and symptoms Inhalation
May cause mild respiratory irritation at higher temperatures.

This product may release hydrogen sulfide (H₂S) if it is heated to high temperatures. Severe respiratory irritation (from vapours or mists) is possible. Could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.

- 11.2.2 Sign and symptoms ingestion



None expected, when used as intended. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

11.2.3 Sign and symptoms skin
Direct skin contact may result in little or no irritation.

11.2.4 Sign and symptoms eyes
Causes little or no irritation.

11.3 Potential Chronic Health Effects
None known or reported by the manufacturer.

11.4 Mutagenicity
Not expected to be mutagenic in humans.

11.5 Carcinogenicity
No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

11.6 Reproductive effects & Teratogenicity
Not expected to have other reproductive effects.

11.7 Sensitization to material
Not expected to be a skin or respiratory sensitizer.

11.8 Specific target organ effects
Eyes, skin, respiratory system and digestive system.

The substance or mixture is not classified as specific target organ toxicant, single exposure.

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

11.9 Irritancy
Causes little or no irritation

11.10 Medical conditions aggravated by overexposure
None known or reported by the manufacturer.

11.11 Synergistic materials
Not available.

11.12 Toxicological data
See below for individual ingredient acute toxicity data. No data is available on the product itself.

Chemical Name	LC50(4hr)		LD50	
	Inh, rat	(Oral, rat)	(Rabbit, dermal)	
None reported	N/Av	N/Av	N/Av	N/Av

11.13 Other important toxicological hazards
None known.

12 ECOLOGICAL INFORMATION

12.1. Ecotoxicity
As supplied, this product does not present a physical, health or environmental hazard.

No data is available on the product itself. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

12.2. Persistence and degradability

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No data is available on the product itself.

- 12.3. Bioaccumulative potential
No data is available on the product itself.
- 12.4. Mobility in soil
No data is available on the product itself.
- 12.5. Other adverse effects
No data is available on the product itself

13 DISPOSAL INFORMATION

- 13.1. Handling for Disposal
See Section 7 (Handling and Storage) for further details.
- 13.2. Methods of Disposal
Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.
- 13.3. RCRA
If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

14 TRANSPORT INFORMATION

- 14.1. UN number
Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name
Not classified as dangerous in the meaning of transport regulations.
- 14.3. Transport hazard class(es)
Not classified as dangerous in the meaning of transport regulations.
- 14.4. Packing Group
Not classified as dangerous in the meaning of transport regulations.
- 14.5. Environmental hazards
Not classified as dangerous in the meaning of transport regulations.
- 14.6. Special Precautions for User
Not classified as dangerous in the meaning of transport regulations.
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not classified as dangerous in the meaning of transport regulations.

15 REGULATORY INFORMATION

- 15.1. Safety, health and environmental regulations/legislation specific for the article/mixture
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Directive (EC) n. 1999/45
Regulation (EC) n. 790/2009 (ATP 1 CLP)
Regulation (EU) n. 453/2010 (Annex I)
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)

Where applicable, refer to the following regulatory provisions:

- Directive 76/464/EEC: Water pollution by discharges of certain dangerous substances
Directive 80/68/EEC: on the protection of groundwater against pollution caused by certain



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dangerous substances

VOC Regulations:

French Regulation DEVL1101903: VOC emission class A+

Compliance of AgBB/DIBt German Requirement of 2012

Compliance of the Belgium Royal Decree to the indoor environment from construction product of 2012

15.2. Chemical Safety Assessment

No

16 OTHER INFORMATION

Based on the information received from suppliers, the product is an article according to REACH Regulation No. 1907/2006/CE and 2001/60/CE. It contains no substances included in Candidate List SVHC (Substances of Very High Concern) in quantities $\geq 0.1\%$ (w/w).

Thus, according to Regulation No. 1907/2006/CE a full MSDS (Material Safety Data Sheet) is not necessary and it cannot be issued for articles free of SVHC substances.

It is declared the presence, in the finished product, of accelerating and blowing substances (CoRAP and SVHC list) in traces ($<0.1\%$)

According to Article 33 of the REACH Regulation No. 1907/2006, any changes regarding the presence of SVHC will be promptly notified.

Sections changed since the previous version:

SECTION 1

SECTION 15

SECTION 16

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECHA database

GESTIS Database

ACGIH Publication of 2012

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Code for Dangerous Goods.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

PNEC: Predicted No Effect Concentration.

LGK: Storage classes (Germany only)

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.



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STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8hour day.
(ACGIH Standard).
WGK: German Water Hazard Class.

