


|   |                                  |
|---|----------------------------------|
|  | <b>K-FLEX MALAYSIA SDN. BHD.</b> |
|   | <b>Safety Data Sheet</b>         |
|   | <b>K-Flex K-414 Glue</b>         |

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## 1 IDENTIFICATION OF THE HAZARDOUS CHEMICAL AND OF THE SUPPLIER

### 1.1. Product identifier

Product name : K-FLEX K-414 ADHESIVE BLACK

### 1.2. Other means of identification

No additional information available

### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Adhesives

### 1.4. Supplier's details

Supplier : K-FLEX Malaysia Sdn. Bhd.  
 Lot 2725, 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

## 2 HAZARDS IDENTIFICATION

### 2.1. Classification of the hazardous chemical

Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019)

|   |      |
|---|------|
| Flamable Liquid, Category 2                                       | H225 |
| Skin Irritation, Category 2                                       | H315 |
| Skin Sensitation, Category 1                                      | H317 |
| Reproductive toxicity, Category 2                                 | H361 |
| Specific Target Organ toxicity – Single exposure, Category 3      | H336 |
| Specific Target Organ toxicity – Repeated exposure, Category 2    | H373 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 2 | H411 |

### 2.2 Label Elements

Labelling according to Industry Code of Practice on chemicals classification and hazard communication (2019)


Hazard pictograms (GHS MY)



Signal Word (CLP) : DANGER

Contains : rosin; colophony; reaction product of formaldehyde and butylphenol; toluene; NAPHTHA (PETROLEUM), HYDROTREATED LIGHT

Hazard statements (GHS MY) : H225 - Highly flammable liquid and vapour.  
 H315 - Causes skin irritation.  
 H317 - May cause an allergic skin reaction.  
 H336 - May cause drowsiness or dizziness.  
 H361 - Suspected of damaging fertility. Suspected of damaging the unborn child. (inhalation).  
 H373 - May cause damage to organs (nervous system, central nervous system) through prolonged or repeated exposure (inhalation).  
 H411 - Toxic to aquatic life with long lasting effects.

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Precautionary statements (GHS MY) : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ventilating/lighting equipment.

## 2.3 Precautionary Statements

### 2.3.1 Precautionary Statements - Prevention

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P233 - Keep container tightly closed  
P240 - Ground/bond container and receiving equipment  
P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment  
P242 - Use only non-sparking tools  
P243 - Take precautionary measures against static discharge  
P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray  
P264 - Wash hands thoroughly after handling  
P271 - Use only outdoors or in a well-ventilated area  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

### 2.3.2 Precautionary Statement - Response

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower  
P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P312 - Call a POISON CENTER or doctor/ physician if you feel unwell  
P321 - Specific treatment  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention  
P337 + P313 - If eye irritation persists: Get medical advice/ attention  
P363 - Wash contaminated clothing before reuse  
P370 + P378 - In case of fire: Use appropriate extinguishant

### 2.3.3 Precautionary Statement - Storage


P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
P403 + P235 - Store in a well-ventilated place. Keep cool  
P405 - Store locked up

### 2.3.4 Precautionary Statement - Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

## 2.4 Hazards not otherwise classified (NHOC)

No additional information available.

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### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

| Name  | Product Identifier   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|---|----------------------|---------|--|
| toluene   | (CAS-No.) 108-88-3   | 30 – 50 | Flam. Liq. 2, H225<br>Acute Tox. Not classified (Oral)<br>Acute Tox. Not classified (Dermal)<br>Acute Tox. Not classified (Inhalation:dust,mist)<br>Skin Irrit. 2, H315<br>Repr. 2, H361d<br>STOT SE 3, H336<br>STOT RE 2, H373<br>Asp. Tox. 1, H304 |
| NAPHTHA (PETROLEUM), HYDROTREATED LIGHT         | (CAS-No.) 64742-49-0 | 30 – 50 | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Repr. 2, H361f<br>STOT SE 3, H336<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411  |
| reaction product of fomaldehyde and butylphenol | (CAS-No.) 91673-30-2 | 1 – 10  | Skin Sens. 1, H317   |
| rosin; colophony                                | (CAS-No.) 8050-09-7  | 0.1 – 1 | Skin Sens. 1, H317   |

**Note: Refer to Section 16 for full phrases**

### 4 FIRST-AID MEASURES

#### 4.1 Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : IF exposed or concerned: Get medical advice/attention.   |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact | : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.   |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.   |

#### 4.2 Most important symptoms and effects, both acute and delayed.

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects                    | : May cause drowsiness or dizziness.               |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction. |


#### 4.3 Indication of any immediate medical attention and special treatment needed.

Treat symptomatically.

### 5 FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

|                                |                                     |
|--------------------------------|-------------------------------------|
| Suitable extinguishing media   | : Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Water spray.                      |

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## 5.2 Special hazards arising from the substance or mixture.

Fire hazard : Highly flammable liquid and vapour.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

## 5.3 Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

EAC code : •3YE

# 6 ACCIDENTAL RELEASE MEASURES

## 6.1. Personal precautions, protective equipment and emergency procedures

### 6.1.1 For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

## 6.2 Environmental precautions

Avoid release to the environment.

## 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

# 7 HANDLING AND STORAGE

## 7.1. Precautions for safe handling


Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust / fume / gas / mist / vapours / spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

## 7.2. Conditions for safe storage, including any incompatibilities.

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

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## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION


### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

|   |   |
|---|---|
| <b>Toluene (108-88-3)</b>                         |   |
| <b>Malaysia - Occupational Exposure Limits</b>    |   |
| Local name  | Toluena (Toluol) # Toluene (Toluol)   |
| PEL TWA (mg/m <sup>3</sup> )                      | 188 mg/m <sup>3</sup>   |
| PEL TWA (ppm)                                     | 50 ppm  |
| Remark (MY)                                       | (kulit # skin)  |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |   |
| Local name  | Toluene   |
| ACGIH TWA (ppm)                                   | 20 ppm  |
| Remark (ACGIH)                                    | TLV® Basis: Visual impair; female repro; pregnancy loss. Notations: A4 (Not classifiable as a Human Carcinogen); BEI  |
| Regulatory reference                              | ACGIH 2020  |
| <b>USA - ACGIH - Biological Exposure Indices</b>  |   |
| Local name  | TOLUENE   |
| Biological Exposure Indices (BEI)                 | 0.3 mg/g creatinine Parameter: o-Cresol (with hydrolysis) - Medium: urine - Sampling time: End of shift - Notations: B<br>0.03 mg/l Parameter: Toluene - Medium: urine - Sampling time: End of shift<br>0.02 mg/l Parameter: Toluene - Medium: blood - Sampling time: Prior to last shift of workweek |
| Regulatory reference                              | ACGIH 2020  |

|   |                            |
|---|----------------------------|
| <b>NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (64742-49-0)</b> |                            |
| <b>Malaysia - Occupational Exposure Limits</b>              |                            |
| Local name  | Sikloheksana # Cyclohexane |
| PEL TWA (mg/m <sup>3</sup> )                                | 1030 mg/m <sup>3</sup>     |
| PEL TWA (ppm)   | 300 ppm                    |
| Remark (MY)   | (kulit # skin)             |

|  |                          |
|--|--------------------------|
| <b>rosin; colophony (8050-09-7)</b>                  |                          |
| <b>United Kingdom - Occupational Exposure Limits</b> |                          |
| WEL TWA (mg/m <sup>3</sup> )                         | ≈ 0.05 mg/m <sup>3</sup> |
| WEL STEL (mg/m <sup>3</sup> )                        | ≈ 0.15 mg/m <sup>3</sup> |

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**Exposure limit values for the other components**

|   |  |
|---|--|
| <b>n-hexane (110-54-3)</b>                        |  |
| <b>Malaysia - Occupational Exposure Limits</b>    |  |
| Local name  | n-Heksana # n-Hexane   |
| PEL TWA (mg/m <sup>3</sup> )                      | 176 mg/m <sup>3</sup>  |
| PEL TWA (ppm)                                     | 50 ppm   |
| Remark (MY)                                       | (kulit # skin)   |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |  |
| Local name  | n-Hexane   |
| ACGIH TWA (ppm)                                   | 50 ppm   |
| Remark (ACGIH)                                    | TLV® Basis: CNS impair; peripheral. neuropathy; eye irr. Notations: Skin; BEI                          |
| Regulatory reference                              | ACGIH 2020   |
| <b>USA - ACGIH - Biological Exposure Indices</b>  |  |
| Local name  | n-HEXANE   |
| Biological Exposure Indices (BEI)                 | 0.5 mg/l Parameter: 2,5-Hexanedione (without hydrolysis) - Medium: urine - Sampling time: End of shift |
| Regulatory reference                              | ACGIH 2020   |

|   |                            |
|---|----------------------------|
| <b>cyclohexane (110-82-7)</b>                     |                            |
| <b>Malaysia - Occupational Exposure Limits</b>    |                            |
| Local name  | Sikloheksana # Cyclohexane |
| PEL TWA (mg/m <sup>3</sup> )                      | 1030 mg/m <sup>3</sup>     |
| PEL TWA (ppm)                                     | 300 ppm                    |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |                            |
| Local name  | Cyclohexane                |
| ACGIH TWA (ppm)                                   | 100 ppm                    |
| Remark (ACGIH)                                    | TLV® Basis: CNS impair     |
| Regulatory reference                              | ACGIH 2020                 |

**8.2. Monitoring**


No additional information available

**8.3. Appropriate engineering controls**

Appropriate engineering controls: Ensure good ventilation of the work station.

**8.4. Personal protective equipment**

Hand protection : Protective gloves  
 Eye protection : Safety glasses

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Skin and body protection

: Wear suitable protective clothing

Respiratory protection

: [In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s) :



Environmental exposure controls


: Avoid release to the environment.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

|   |                                 |
|---|---------------------------------|
| Physical state                                  | : Liquid                        |
| Appearance                                      | : No data available             |
| Colour  | : Black                         |
| Odour   | : Characteristic                |
| Odour threshold                                 | : No data available             |
| pH  | : Not applicable                |
| Melting point, Freezing point                   | : Melting point: Not applicable |
| Boiling point                                   | : > 68 °C                       |
| Flash point                                     | : 22 °C                         |
| Evaporation rate                                | : No data available             |
| Flammability (solid, gas)                       | : Not applicable                |
| Explosive limits                                | : No data available             |
| Vapour pressure                                 | : No data available             |
| Relative vapour density at 20 °C                | : No data available             |
| Relative density                                | : Relative density: ≈ 0.84      |
| Solubility                                      | : No data available             |
| Partition coefficient n-octanol/water (Log Pow) | : No data available             |
| Partition coefficient n-octanol/water (Log Kow) | : No data available             |
| Auto-ignition temperature                       | : No data available             |
| Decomposition temperature                       | : No data available             |
| Viscosity, kinematic                            | : > 40 mm <sup>2</sup> /s       |
| Viscosity, dynamic                              | : 5000 – 7000 cP                |

## 10 STABILITY AND REACTIVITY

|                                    |   |
|------------------------------------|---|
| Reactivity                         | : Highly flammable liquid and vapour.   |
| Chemical stability                 | : Stable under normal conditions  |
| Possibility of hazardous reactions | : No dangerous reactions known under normal conditions of use   |
| Conditions to avoid                | : Avoid contact with hot surfaces, Heat, No flames, no sparks. Eliminate all sources of ignition      |
| Incompatible materials             | : No data available   |
| Hazardous decomposition products   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced |

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## 11 TOXICOLOGY INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified.  
 Acute toxicity (dermal) : Not classified.  
 Acute toxicity (inhalation) : Not classified.

| toluene (108-88-3)    |              |
|-----------------------|--------------|
| LD50 oral rat         | > 5000 mg/kg |
| LD50 dermal rat       | > 5000 mg/kg |
| LC50 Inhalation - Rat | > 20 mg/l/4h |

Skin corrosion/irritation : Causes skin irritation.  
 pH: Not applicable  
 Serious eye damage/irritation : Not classified.  
 pH: Not applicable  
 Respiratory or skin sensitisation : May cause an allergic skin reaction.  
 Germ cell mutagenicity : Not classified.  
 Carcinogenicity : Not classified  
 Reproductive toxicity : Suspected of damaging fertility. Suspected of damaging the unborn child. (if inhaled).  
 STOT-single exposure : May cause drowsiness or dizziness.

| toluene (108-88-3)   |                                    |
|----------------------|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |

| NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (64742-49-0) |   |
|--|---|
| STOT-single exposure                                 | May cause drowsiness or dizziness.  |
| STOT-repeated exposure                               | : May cause damage to organs (nervous system, central nervous system) through prolonged or repeated exposure. |

| toluene (108-88-3)     |  |
|------------------------|--|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |


| NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (64742-49-0) |  |
|--|--|
| STOT-repeated exposure                               | May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard                                    | : Not classified.  |

## 12 ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.  
 Hazardous to the aquatic environment, short-term (acute) : Not classified.  
 Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.



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#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Ozone

: Not classified

Other adverse effects

: No additional information available

### 13 DISPOSAL INFORMATION

#### 13.1. Disposal methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information

: Flammable vapours may accumulate in the container.

### 14 TRANSPORT INFORMATION

#### 14.1. UN number

UN-No.(UN RTDG)

: 1133

UN-No. (IMDG)

: 1133

UN-No. (IATA)

: 1133

#### 14.2. Proper Shipping Name

Proper Shipping Name (UN RTDG)

: ADHESIVES (containing flammable liquid)

Proper Shipping Name (IMDG)

: ADHESIVES (containing flammable liquid)

#### 14.3. Transport hazard class(es)

##### UN RTDG

Transport hazard class(es) (UN RTDG)

: 3

Danger labels (UN RTDG)

: 3



##### IMDG

Transport hazard class(es) (IMDG)

: 3

Danger labels (IMDG)

: 3



##### IATA


Transport hazard class(es) (IATA)

: 3

Danger labels (IATA)

: 3



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#### 14.4. Packing group

Packing group (UN RTDG) : II  
Packing group (IMDG) : II  
Packing group (IATA) : II

#### 14.5. Environmental hazards

Dangerous for the environment : Yes  
Marine pollutant : Yes  
Other information : No supplementary information available

#### 14.6. Special precautions for user

##### - UN RTDG

Limited quantities (UN RTDG) : 5L  
Excepted quantities (UN RTDG) : E2  
Packing instruction (UN RTDG) : P001, IBC02  
Special packing provisions (UN RTDG) : PP1  
Portable tank and bulk container special instructions (UN RTDG) : T4  
Portable tank and bulk container special provisions (UN RTDG) : TP1, TP8

##### - IMDG

Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P001  
Special packing provisions (IMDG) : PP1  
IBC packing instructions (IMDG) : IBC02  
Tank instructions (IMDG) : T4  
Tank special provisions (IMDG) : TP1, TP8  
EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS  
EmS-No. (Spillage) : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS  
Stowage category (IMDG) : B  
Properties and observations (IMDG) : Adhesives are solutions of gums, resins, etc., usually volatile due to the solvents. Miscibility with water depends upon their composition.

##### - IATA


PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y341  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 353  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 364  
CAO max net quantity (IATA) : 60L  
Special provisions (IATA) : A3  
ERG code (IATA) : 3L

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

#### 14.8. Hazchem or Emergency Action Code

EAC code : •3YE.

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## 15 REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

No additional information available

### 15.2. Chemical safety assessment

No additional information available

## 16 OTHER INFORMATION

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Full text of H-statements:

|  |  |
|--|--|
| Acute Tox. Not classified (Dermal)               | Acute toxicity (dermal) Not classified                                 |
| Acute Tox. Not classified (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Not classified                   |
| Acute Tox. Not classified (Oral)                 | Acute toxicity (oral) Not classified                                   |
| Aquatic Chronic 2                                | Hazardous to the aquatic environment — Chronic Hazard, Category 2      |
| Asp. Tox. 1                                      | Aspiration hazard, Category 1  |
| Asp. Tox. Not classified                         | Aspiration hazard Not classified                                       |
| Flam. Liq. 2                                     | Flammable liquids, Category 2  |
| Repr. 2  | Reproductive toxicity, Category 2                                      |
| Skin Irrit. 2                                    | Skin corrosion/irritation, Category 2                                  |
| Skin Sens. 1                                     | Skin sensitisation, Category 1   |
| STOT RE 2  | Specific target organ toxicity — Repeated exposure, Category 2         |
| STOT SE 3  | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| H225   | Highly flammable liquid and vapour.                                    |
| H304   | May be fatal if swallowed and enters airways.                          |
| H315   | Causes skin irritation.  |
| H317   | May cause an allergic skin reaction                                    |
| H336   | May cause drowsiness or dizziness.                                     |
| H361   | Suspected of damaging fertility or the unborn child.                   |
| H361d  | Suspected of damaging the unborn child.                                |
| H361f  | Suspected of damaging fertility.                                       |
| H373   | May cause damage to organs through prolonged or repeated exposure.     |
| H411   | Toxic to aquatic life with long lasting effects.                       |

Safety Data Sheet (SDS), Malaysia

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*