

Product name: **KIBITON® SBC**

Version 1

Revision Data: June 1, 2015  
Print Data: May 31, 2018

**Section 1. Identification of the substance/ mixture and of the company/ undertaking**

**1.1 Product identifier**

Product name: **KIBITON®**

This safety data sheet pertains to the following products: PB-575

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses: Use as shoe soles, industrial accessories.

Uses advised against: - No data available.

Reason why uses advised against: - No data available.

**1.3 Details of the supplier of the Safety Data Sheet**

Supplier: Chi Mei Corporation

Address: 59-1, San Chia, Jen Te Village  
Tainan County  
Taiwan R.O.C.

Telephone: +886 6 2663000 Ext. 1338

Email: [service@mail.chimei.com.tw](mailto:service@mail.chimei.com.tw)

**1.4 Emergency telephone number**

Emergency telephone : +886 6 2663000 Ext. 2501

**Section 2. Hazards identification**

**2.1 Classification of the substance or mixture**

Classification according to Directive 67/548/EEC or 1999/45/EC: Not classified as hazardous (polymeric state)

Classification according to Regulation (EC) N° 1272/2008 (CLP): Not classified as hazardous (polymeric state)

**2.2 Label elements**

Not labelled as hazardous

**2.3 Other hazards**

vPvB/PBT assessment: not available

**Section 3. Composition/information on ingredients**

**3.1 Composition of the substance/ preparation**

Substance or Preparation      Substance  
Content

| CAS         | Name                        | Content |
|-------------|-----------------------------|---------|
| 9003-55-8   | Styrene-Butadiene Copolymer | > 65 %  |
| 64742-54-7  | Mineral Oil                 | ≤ 35%   |
| Proprietary | Additives                   | ≤ 1 %   |

Impurities Contributing to Hazard      None

Product name: **KIBITON® SBC**

Version 1

Revision Data: June 1, 2015  
Print Data: May 31, 2018

**3.2 Additional information:**

Reach Info:

|                               | Registration No.      |
|-------------------------------|-----------------------|
| Styrene                       | 01-2119457861-32-0006 |
| Buta-1,3-diene                | 01-2119471988-16-0044 |
| White mineral oil (petroleum) | 01-2119484627-25-0057 |

**3.3 For full text of R- and H-phrases:** see section 16

**Section 4. First-aid measures**

**4.1 Description of first aid measures**

General notes: Remove affected persons from the danger area, at the same time ensuring your own safety. Remove all contaminated clothing immediately

Following inhalation: In case of gases evolving from melted resin, move subject to fresh air. Treat symptomatically

Following skin contact: In case of pellets or powder, wash with water. In case of smelt, wash affected skin area and clothing with plenty of (soap and) water. Seek medical advice

Following eye contact: In case of pellets or powder, flush with plenty of water for at least 15 minutes. Seek medical advice if any dust particles still remain.

In case of gases evolving from melted resin of high temperature, flush with plenty of water for at least 15 minutes. Seek medical advice if necessary

Following ingestion: Induce vomiting. Rinse mouth with water. Seek medical advice if necessary

Self-protection of the first aider: -

**4.2 Most important symptoms & effects both acute & delayed**

Dust: Skin irritation, eye irritations and redness

**4.3 Indication of any immediate medical attention and special treatment needed:** -

**Section 5. Fire-fighting measures**

**5.1 Extinguishing media**

Suitable extinguishing agents: Water, foam, dry chemical powder

For safety reasons unsuitable extinguishing agents: -

**5.2 Special hazards arising from the substance or mixture:** -

**5.3 Advice for firefighters**

Protective equipment: Self-contained breathing apparatus

Further measures: -

**5.4 Additional information:** -

Product name: **KIBITON® SBC**

Version 1

Revision Data: June 1, 2015  
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## Section 6. Accidental release measures

### 6.1 Personal precautions, protective equipment & emergency procedures

Pellets or powder remained on ground may cause slipping

Wear protective equipment

Ensure adequate ventilation

Keep away from ignition sources

Keep unprotected persons away

### 6.2 Environmental precautions

Gather pellets and powder thoroughly to avoid birds or fishes taking from draining water.

Do not allow product to reach sewage system or water bodies. Inform respective authorities in case product reaches water, sewage system or soil

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

Recovery if not contaminated or disposal

### 6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

Protective measures: -

Measures to prevent fire: Prevent from fire around handling area

Measures to prevent aerosol and dust generation: maintain good housekeeping standards to prevent accumulation of dust. To avoid dust explosion resulting from the existence of powder, electrostatics eliminators and grounding should be fixed to such equipment as air transferring pipes, bag filters and hoppers. Use electrically conductive filters for bag filters.

Measures to protect the environment: -

Advice on general occupational hygiene: -

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

Technical measures and storage conditions: Keep the material at a cool dry place. Protect from direct sunlight, rain and violent temperature fluctuation. Fire is inhibited around storage area.

Requirements for storage rooms and vessels: -

Suitable materials and coating: -

Unsuitable materials or coatings: -

Further information on storage conditions: -

### 7.3 Specific end use(s)

Recommendations: -

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

Exposure limits : None established

Product name: **KIBITON® SBC**

Version 1

Revision Data: June 1, 2015  
Print Data: May 31, 2018

## 8.2 Exposure control

Appropriate engineering controls: Install eyes washer and shower in the place of operation. Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits

Personal protection:

- Respiratory protection: Wear masks for cleaning molding machines
- Hand protection: Heat-insulating gloves when handling molten form
- Eye protection: Wear safety glasses for general purpose. Wear chemical goggles for cleaning molding machines
- Skin and body protection: Gloves necessary for handling melted resin
- Hygiene measures: Wash hands after handling

## 8.3 Environmental exposure controls

Product related measures to prevent exposure: None specific

Instruction measures to prevent exposure: None specific

Organizational measures to prevent exposure: None specific

Technical measures to prevent exposure: None specific

Environmental exposure controls: Do not allow product to reach sewage system or water bodies

## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |                                    |
|--|------------------------------------|
| Appearance                                   | Pellet                             |
| Odour  | None                               |
| Colour                                       | white                              |
| Odour threshold                              | Not Established                    |
| pH   | Not applicable                     |
| Melting point / freezing point               | Not applicable                     |
| Initial boiling point and boiling range      | Not applicable                     |
| Evaporation rate                             | Not applicable (Butyl acetate = 1) |
| Flammability (solid, gas)                    | Not applicable                     |
| Upper/lower flammability or explosive limits | Not applicable                     |
| Vapour pressure                              | Not applicable                     |
| Vapour density                               | Not applicable                     |
| Specific gravity                             | 0.92~0.95                          |
| Solubility in water                          | Insoluble                          |
| Auto-ignition temperature                    | No self-igniting                   |
| Decomposition temperature                    | Not applicable                     |
| Viscosity                                    | Not applicable                     |
| Explosive properties                         | Not explosive                      |
| Oxidizing properties                         | Not oxidizing                      |

### 9.2 Other safety information: -

Product name: **KIBITON® SBC**

Version 1

Revision Data: June 1,2015  
Print Data: May 31, 2018

#### Section 10. Stability and reactivity

**10.1 Reactivity:** Non-reactive under normal handling and storage conditions

**10.2 Chemical stability:** Stable under normal handling and storage conditions

**10.3 Possible hazardous reaction:** -

**10.4 Conditions to avoid:** Avoid excessive heat, flames and all sources of ignition

**10.5 Incompatible materials:** not applicable

**10.6 Hazardous decomposition products:** not applicable

#### Section 11. Toxicological information

##### 11.1 Information on toxicological effects

Acute toxicity:

Proprietary additives:

Acute oral toxicity: LD50(rat) > 5000 mg/kg

Acute inhalation toxicity: LC50(rat)> 1.81 mg/L

Acute dermal toxicity: LD50(rat) > 2000 mg/kg

Skin corrosion/irritation:

Proprietary additives:

Skin irritation: not irritating.

Serious eye damage/irritation:

Proprietary additives:

Eye irritation: not irritating.

Respiratory or skin sensitisation:

Proprietary additives:

Not sensitising.

Germ cell mutagenicity:

Proprietary additives:

Negative.

Carcinogenicity:

Proprietary additives:

NOAEL:≥ 218 mg/kg bw/day (males) and ≥ 275 mg/kg  
bw/day (females).

Reproductive toxicity:

Proprietary additives:

NOEL(parental generation) > 1500 ppm;

NOEL (F1, F2 generations) < 500 ppm..

Specific target organ toxicity  
(repeated exposure):

Dati non disponibili

Aspiration hazard:

Dati non disponibili

Product name: **KIBITON® SBC**

Version 1

Revision Data: June 1, 2015  
Print Data: May 31, 2018

## Section 12. Ecological information

### 12.1 Toxicity

no data available

### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

no data available

### 12.5 Results PBT & vPvB assessment

According to the revised Annex XIII of regulation (EC) 1907/2006 and (EC) 253/2011: No information available on the product as such

### 12.5 Other adverse effects:

General information: Do not allow to enter into ground-water, surface water or drains.

### 12.7 Additional information: -

## Section 13. Disposal considerations

### 13.1 Waste treatment methods

Product / Packaging disposal: Dispose in accordance with the current local regulations.

Waste codes according to European Waste Catalogue: -

Waste treatment-relevant information: Inadequate incineration may generate toxic gases such as CO, HCN, AN and SM

Sewage disposal-relevant information: -

Other disposal recommendations: -

## Section 14. Transport information

### ADR/RID

#### 14.1 UN number

Not applicable

#### 14.2 UN proper shipping name

Proper Shipping Name: NOT REGULATED

#### 14.3 Transport hazard class(es)

Not applicable

#### 14.4 Packing Group

Not applicable

#### 14.5 Environmental hazards

Not considered environmentally hazardous based on available data

#### 14.6 Special precautions for user

Special Provisions: no data available

Hazard identification No: no data available

Product name: **KIBITON® SBC**

Version 1

Revision Data: June 1, 2015  
Print Data: May 31, 2018

**ADNR / ADN**

**14.1 UN number**

Not applicable

**14.2 UN proper shipping name**

Proper Shipping Name: NOT REGULATED

**14.3 Transport hazard class(es)**

Not applicable

**14.4 Packing Group**

Not applicable

**14.5 Environmental hazards**

Not considered environmentally hazardous based on available data

**14.6 Special precautions for user**

no data available

**IMDG**

**14.1 UN number**

Not applicable

**14.2 UN proper shipping name**

Proper Shipping Name: NOT REGULATED

**14.3 Transport hazard class(es)**

Not applicable

**14.4 Packing Group**

Not applicable

**14.5 Environmental hazards**

Not considered environmentally hazardous based on available data

**14.6 Special precautions for user**

EMS Number: Not applicable

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

Not applicable

**ICAO/IATA**

**14.1 UN number**

Not applicable

**14.2 UN proper shipping name**

Proper Shipping Name: NOT REGULATED

**14.3 Transport hazard class(es)**

Not applicable

**14.4 Packing Group**

Not applicable

**14.5 Environmental hazards**

Not considered environmentally hazardous based on available data

**14.6 Special precautions for user**

no data available

Product name: **KIBITON® SBC**

Version 1

Revision Data: June 1, 2015  
Print Data: May 31, 2018

## Section 15. Regulatory information

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

This safety data sheet is in compliance with the following EU legislation and its adaptations – as far as applicable - : EC 1907/2006 (REACH) and 1272/2008 (CLP)

### 15.2 Chemical Safety Assessment

For this substance a chemical safety assessment is not yet required.

## Section 16. Other information

### 16.1 Indication of changes

Version 1: First issue according to Regulations (EC) 1907/2006 (REACH) & 1272/2008 (CLP)

### 16.2 Abbreviations and acronyms

|       |   |        |  |
|-------|---|--------|--|
| AGS   | Ausschuss für Gefahrstoffe                                | LoW    | List of Waste  |
| AF    | Assessment Factor   | MARPOL | MARine POLLution   |
| BCF   | BioConcentration Factor                                   | MIE    | Minimum Ignition Energy  |
| CAS   | Chemical Abstract Service                                 | N°EC   | European Commission number   |
| CMR   | Carcinogenic, Mutagenic and Reprotoxic                    | NFPA   | National Fire Protection Association   |
| CSR   | Chemical Safety Report                                    | NIOSH  | National Institute of Occupational Safety and Health                               |
| DFG   | German Research Foundation                                | NOEC   | No Observed Effect Concentration   |
| DNEL  | Derived No Effect Level                                   | NOELR  | No Observed Effect Loading Rate  |
| EC    | European Commission                                       | OECD   | Organisation for Economic Co-operation and Development                             |
| EC50  | Effective Concentration (required to induce a 50% effect) | OEL    | Occupational Exposure Limit  |
| EEC   | European Economic Community                               | OSHA   | Occupational Safety and Health Administration                                      |
| EWC   | European Waste Catalogue Code                             | PBT    | Persistent Bioaccumulable Toxique  |
| IDLH  | Immediately Dangerous to Life or Health                   | PNEC   | Previsible Non Effect Concentration  |
| IBC   | International Bulk Chemical                               | QSAR   | Quantitative Structure-Activity Relationship                                       |
| Koc   | Soil/Water Partition Coefficient                          | STOT   | Specific Target Organ Toxicity   |
| Kow   | Octanol/Water Partition Coefficient                       | TCLo   | Toxic Concentration Low  |
| LC50  | Lethal Concentration 50                                   | TDLo   | Toxic Dose Low   |
| LD50  | Lethal Dose 50  | UN     | United Nations   |
| LEL   | Lower Explosive Limit                                     | UVCB   | Unknown or Variable Composition Complex Reaction Products, or Biological Materials |
| LL100 | Lethal Loading  | vPvB   | very Persistent, very Bioaccumulative  |
| LOEC  | Lowest Observed Effect Concentration                      |        |  |

### 16.3 Key literature references and sources for data

<http://esis.jrc.ec.europa.eu/>  
<http://echa.europa.eu/>  
<http://gestis-en.itrust.de>



Product name: **KIBITON® SBC**

Version 1

Revision Data: June 1, 2015  
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**16.4 Relevant R-phrases and/or H-statements (number and full text):**

|      |   |           |   |
|------|---|-----------|---|
| H220 | Extremely flammable gas                         | R10       | Flammable   |
| H225 | Highly flammable liquid and vapour              | R11       | Highly flammable  |
| H226 | Flammable liquid and vapour                     | R12       | Extremely flammable   |
| H301 | Toxic if swallowed                              | R20       | Harmful by inhalation   |
| H311 | Toxic in contact with skin                      | R23/24/25 | Toxic by inhalation, in contact with skin and if swallowed                                      |
| H315 | Causes skin irritation                          | R36       | Irritating to eyes  |
| H317 | May cause an allergic skin reaction             | R37       | Irritating to respiratory system  |
| H318 | Causes serious eye damage                       | R38       | Irritating to skin  |
| H319 | Causes serious eye irritation                   | R40       | Limited evidence of a carcinogenic effect   |
| H331 | Toxic if inhaled                                | R41       | Risk of serious damage to eyes  |
| H332 | Harmful if inhaled                              | R43       | May cause sensitisation by skin contact   |
| H335 | May cause respiratory irritation                | R45       | May cause cancer  |
| H340 | May cause genetic defects                       | R46       | May cause inheritable genetic damage  |
| H350 | May cause cancer                                | R50/53    | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| H351 | Suspected of causing cancer                     | R51/53    | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment      |
| H400 | Very toxic to aquatic life                      |           |   |
| H411 | Toxic to aquatic life with long lasting effects |           |   |

**16.5 Training advice: -**

**16.6 Further information:** According to the guidance version 2.0 for monomers and polymers from the European Chemicals Agency dated as of April 2012, the classification of the polymer takes into account the classification of all its constituents, such as unreacted monomers. These constituents in fact should be taken into account for classification of the polymer. This means that the same classification methods as for mixture should be applied to polymer substances.

In order to determine a classification for the studies about the water soluble fraction as well as the absorption should be performed on the polymer as such.

*To the best of our knowledge and belief, the information contained herein is accurate and obtained from sources believed to be reliable. No representation is made that the information is complete or the material is suitable for all purposes. The final determination as to the suitability of the user's intended use of the material is the sole responsibility of the user. All materials may present unknown hazards even when used in common applications and accordingly, it is the sole responsibility of the user to understand and address all potential hazards, including those identified herein. The information set forth in Sections 11 and 12 reflects data available as of the date hereof. It is anticipated that such data will be updated.*