

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation of the mixture TAIPOL® SEBS-6150, SEBS-6151, SEBS-6152, SEBS-6153, SEBS-6154, SEBS-6152P, SEBS-6159, SEBS-6014, SEBS-6052 & SEBS-6052D

Registration number -

Synonyms None.

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

Identified uses TAIPOL® SEBS-6150, SEBS-6151, SEBS-6152, SEBS-6153, SEBS-6154, SEBS-6152P, SEBS-6159: Use as shoe soles, adhesives, hot melts, plastic modifications, asphalt modifications. SEBS-6014, 6052 & SEBS-6052D: Polymer compounding.

Uses advised against -

1.3. Details of the supplier of the safety data sheet

Manufacturer TSRC Corporation
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Taiwan R.O.C.

Telephone +886-7-3513811

E-mail tpe.msds@tsrc-global.com

Supplier TSRC (Lux.) Corporation S.à r.l.
39 - 43 Avenue de la Liberté
L-1931 Luxembourg
Grand Duchy of Luxembourg

Telephone +352 26 29 72-1

E-mail tpe.msds@tsrc-global.com

Contact person Product Safety

1.4. Emergency telephone number +1-760-476-3961

Access code 333558

General in EU 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms None.

Signal word None.

Hazard statements The mixture does not meet the criteria for classification.

Precautionary statements

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Supplemental information on the label None.

2.3. Other hazards

The material may form dust and can accumulate electrostatic charges, which may cause an electrical spark (ignition source).
This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.
The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.
The mixture does not contain any substances having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Hydrogenated styrene/butadiene copolymer	> 98	66070-58-4	-	-	

Classification: -

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Components not listed are either non-hazardous or are below reportable limits.

SECTION 4: First aid measures

General information

First aid personnel must be aware of own risk during rescue.

4.1. Description of first aid measures

Inhalation

If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Skin contact

Flush skin with large amounts of water. For contact with hot material, immediately immerse affected area of skin in large amounts of cold water to dissipate heat and reduce the extent of thermal burns. Do not peel polymer from the skin.

Eye contact

Do not rub eyes. Flush eyes with water as a precaution. Get medical attention if irritation develops or persists. If molten material contacts the eye, immediately flush with plenty of water for at least 15 minutes.

Ingestion

Have victim rinse mouth thoroughly with water.

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

Irritation of eyes and mucous membranes. Irritation of nose and throat.

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

Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards

The product is not flammable. Will burn if involved in a fire. The material may form dust and can accumulate electrostatic charges, which may cause an electrical spark (ignition source).

5.1. Extinguishing media

Suitable extinguishing media

Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media

None.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition may produce smoke, oxides of carbon and lower molecular weight organic compounds whose composition have not been characterised.

5.3. Advice for firefighters

Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Special fire fighting procedures

Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid inhalation of fumes from molten product. Surfaces may become slippery after spillage. Wear appropriate personal protective equipment.

For emergency responders

Use personal protection as recommended in section 8 of the SDS.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Scrape up with shovels into a suitable container for recycle or disposal. Where possible allow molten material to solidify naturally.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid inhalation of dust and contact with skin and eyes. Avoid contact with hot material. The product may form dust and can accumulate electrostatic charges, which may cause an electrical spark (ignition source). Use proper grounding procedures. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated place. Keep away from incompatible materials, open flames and high temperatures. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques.

7.3. Specific end use(s)

TAIPOL[®] SEBS-6150, SEBS-6151, SEBS-6152, SEBS-6153, SEBS-6154, SEBS-6152P, SEBS-6159: Use as shoe soles, adhesives, hot melts, plastic modifications, asphalt modifications. SEBS-6014, 6052 & SEBS-6052D: Polymer compounding.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

8.2. Exposure controls

Appropriate engineering controls

Observe occupational exposure limits and minimise the risk of inhalation of dust and fumes. Use explosion-proof equipment if high dust/air concentrations are possible.

Individual protection measures, such as personal protective equipment

General information

Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection

If contact with material may occur, safety glasses and face shield are recommended. Wear a face shield when working with molten material. Eye protection should meet standard EN 166.

Skin protection

- Hand protection

When material is heated, wear gloves to protect against thermal burns. Wear suitable gloves tested to EN374.

- Other

For molten product, use any type rubber thermal insulating gloves and other clothing as necessary to protect from thermal burns. Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection

In case of inadequate ventilation or when the product is heated, use suitable respiratory equipment with gas filter (type A2). In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P2). Follow guidance on selection, use, care and maintenance in accordance with EN 529.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practices.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Solid.

Form

Solid. (6150, 6151, 6153, 6154, 6152P, 6159 - Powder, 6152 & 6052D- Pellet, 6014 & 6052- Porous pellet).

Colour

White. (6052D-Translucent)

Odour

Odourless.

Odour threshold

Not applicable.

Melting point/freezing point

Property has not been measured.

Boiling point or initial boiling point and boiling range

Property has not been measured.

Flammability

Non flammable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not applicable, material is a solid.

Explosive limit – upper (%) Not applicable, material is a solid.

Flash point Not applicable, material is a solid.

Auto-ignition temperature Property has not been measured.

Decomposition temperature Property has not been measured.

pH Not applicable as the product is insoluble in water.

Kinematic viscosity Not applicable, material is a solid.

Solubility

Solubility (water) Insoluble in water.

Partition coefficient (n-octanol/water) (log value) Not applicable, product is a mixture.

Vapour pressure Not applicable, material is a solid.

Density and/or relative density

Density Property has not been measured.

Relative density Property has not been measured.

Vapour density Not applicable, material is a solid.

Particle characteristics No relevant additional information available.

9.2. Other information

9.2.1. Information with regard to physical hazard classes No relevant additional information available.

9.2.2. Other safety characteristics

Evaporation rate Not applicable, material is a solid.

Viscosity Not applicable, material is a solid.

SECTION 10: Stability and reactivity

10.1. Reactivity Stable at normal conditions.

10.2. Chemical stability Stable at normal conditions.

10.3. Possibility of hazardous reactions Hazardous polymerisation does not occur.

10.4. Conditions to avoid High temperatures. Avoid dust formation.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous decomposition products Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation Dust may irritate respiratory system. When heated, the vapours/fumes given off may cause respiratory tract irritation.

Skin contact Molten material will produce thermal burns.

Eye contact Dust may irritate the eyes. Molten material will produce thermal burns.

Ingestion May cause discomfort if swallowed.

Symptoms Irritation of eyes and mucous membranes. Irritation of nose and throat.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Dusts may irritate the respiratory tract, skin and eyes.

Skin corrosion/irritation Contact with molten material may cause thermal burns.

Serious eye damage/eye irritation May cause irritation through mechanical abrasion. Molten material will produce thermal burns.

Respiratory sensitisation Based on available data, the classification criteria are not met.

Skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Due to the physical form of the product it is not an aspiration hazard.
Mixture versus substance information	No information available.

11.2. Information on other hazards

Endocrine disrupting properties	This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.
Other information	Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

SECTION 12: Ecological information

12.1. Toxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
12.2. Persistence and degradability	No data available.
12.3. Bioaccumulative potential	No data available.
Partition coefficient n-octanol/water (log Kow)	Not available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
Mobility in general	The product is insoluble in water and will spread on the water surface.
12.5. Results of PBT and vPvB assessment	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.
12.6. Endocrine disrupting properties	This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.
12.7. Other adverse effects	Not known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose in accordance with all applicable regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	07 02 13 The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Dispose of contents/container in accordance with local/regional/national/international regulations. Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

SECTION 14: Transport information

ADR

14.1. UN number	Not regulated as dangerous goods.
14.2. UN proper shipping name	Not regulated as dangerous goods.
14.3. Transport hazard class(es)	
Class	Not assigned.
Subsidiary risk	-
Hazard No. (ADR)	Not assigned.
Tunnel restriction code	Not assigned.
14.4. Packing group	Not assigned.
14.5. Environmental hazards	No.
14.6. Special precautions for user	Not assigned.

RID

14.1. UN number	Not regulated as dangerous goods.
14.2. UN proper shipping name	Not regulated as dangerous goods.

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk -

14.4. Packing group Not assigned.

14.5. Environmental hazards No.

14.6. Special precautions Not assigned.

for user

ADN

14.1. UN number Not regulated as dangerous goods.

14.2. UN proper shipping Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk -

14.4. Packing group Not assigned.

14.5. Environmental hazards No.

14.6. Special precautions Not assigned.

for user

IATA

14.1. UN number Not regulated as dangerous goods.

14.2. UN proper shipping Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk -

14.4. Packing group Not assigned.

14.5. Environmental hazards No.

14.6. Special precautions Not assigned.

for user

IMDG

14.1. UN number Not regulated as dangerous goods.

14.2. UN proper shipping Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk -

14.4. Packing group Not assigned.

14.5. Environmental hazards

Marine pollutant No.

EmS Not assigned.

14.6. Special precautions Not assigned.

for user

14.7. Maritime transport in bulk Not applicable.
according to IMO instruments

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended. This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

National regulations

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

DNEL: Derived No-Effect Level.
PNEC: Predicted No-Effect Concentration.
PBT: Persistent, bioaccumulative and toxic.
vPvB: Very Persistent and very Bioaccumulative.

References

EPA: AQUIRE database
HSDB® - Hazardous Substances Data Bank

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements, which are not written out in full under sections 2 to 15

None.

This SDS contains revisions in the following section(s):

1,7,9

Training information

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Disclaimer

Limited warranty

There are no warranties which extend beyond the product description herein, and seller makes no warranty, express or implied, of fitness for particular use, merchantability or otherwise with respect to product, whether used singly or in combination with other substances or in any process, except that product sold hereunder shall conform to seller's standard sales specifications as of the date of the shipment. Without limiting the foregoing, seller does not recommend or endorse the use of product(s) in any medical application and specifically disclaims any representation or warranty, express or implied, of suitability or fitness for use or otherwise, with respect to product(s)' use in any medical application. Buyer represents and warrants that no product(s) purchased hereunder will be used in or resold into any commercial or developmental manner in connection with medical applications without seller's prior express written acknowledgement, further, buyer agrees that it will make no representations, express or implied, to any person to the effect that seller recommends or endorses the use of product(s) purchased hereunder in any medical application.

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.