

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
Trade name : TAIPOL® SBR-1778

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Used in tire, shoes materials, rubber products, rubber clothing, roller and rubber floor. Do not use in food.
Uses advised against : No information available

1.4. Supplier's details

Company name: TSRC Corporation
Address: No.2, Singgong Rd., Dashe Dist., Kaohsiung City 815, Taiwan R.O.C.
Postal code:815
Contact person: TSRC Corporation
Tel: +886 73513811
Fax: +886 73520622
Email: srd.msds@tsrc-global.com

1.5. Emergency phone number

Emergency number : +886 73513811

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Skin sensitisation, Category 1 H317
Carcinogenicity, Category 1B H350
Hazardous to the aquatic environment — Acute Hazard, Category 3 H402

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects : May cause an allergic skin reaction, May cause cancer, Harmful to aquatic life

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN) :



Signal word (GHS UN) : Danger

Hazard statements (GHS UN) : H317 - May cause an allergic skin reaction
H350 - May cause cancer
H402 - Harmful to aquatic life

Precautionary statements (GHS UN) : P203 - Obtain, read and follow all safety instructions before use.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P318 - IF exposed or concerned, get medical advice.

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P333+P317 - If skin irritation or rash occurs: Get medical help.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
Styrene-butadiene copolymer	CAS-No.: 9003-55-8	> 65.5	Not classified
Distillates, petroleum, hydrotreated heavy paraffinic	CAS-No.: 64742-54-7	< 28.5	Carc. 1B H350
Fatty acids, tallow, hydrogenated	CAS-No.: 61790-38-3	< 3	Not classified
Rosin	CAS-No.: 8050-09-7	< 2	Skin Sens. 1 H317
AO mixture	Proprietary	< 1	-

Full text of H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation : Not an expected route of exposure.
First-aid measures after skin contact : Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
Wash skin with plenty of water.
First-aid measures after eye contact : Not an expected route of exposure.
First-aid measures after ingestion : Not an expected route of exposure.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects : May cause an allergic skin reaction. May cause cancer.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.
Unsuitable extinguishing media : No information available.

5.2. Specific hazards arising from the chemical

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

5.3. Special protective actions for fire-fighters

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

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SECTION 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. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Only qualified personnel equipped with suitable protective equipment may intervene.

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. Notify authorities if product enters sewers or public waters.

6.3. Methods and materials for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters sewers or public waters.
Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Separate working clothes from town clothes. Launder separately.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Stored in a place that is cool, dry, ventilated, and where sunlight cannot be directly exposed, away from heat sources, sources of ignition, and incompatible materials. In the absence of solid container constraints, it should be stacked neatly and properly spaced, and the stacking height is not greater than 10 packs.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Rosin (8050-09-7)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	0.001 mg/m ³ (inhalable particulate matter)	
ACGIH chemical category	dermal sensitizer	

Rosin (8050-09-7)		
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	0.05 mg/m ³ (fume)
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	0.15 mg/m ³ (fume)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	1 mg/m ³
Czech Republic	OEL chemical category (CZ)	Sensitizer
France	VME (mg/m ³)	0.1 mg/m ³

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Rosin (8050-09-7)		
Latvia	OEL TWA (mg/m ³)	4 mg/m ³
Portugal	OEL chemical category (PT)	Sensitizer
Spain	OEL chemical category (ES)	Sensitizer
Switzerland	OEL chemical category (CH)	Sensitizer
Canada (Quebec)	VEMP (mg/m ³)	0.1 mg/m ³

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Materials for protective clothing : Chemical-resistant work clothes.
Hand protection : Protective gloves
Eye protection : No special technical protective measures are necessary
Skin and body protection : Wear suitable protective clothing
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state : Solid
Colour : Light yellow.
Odour : Odourless.
Odour threshold : No data available
Melting point : No data available
Freezing point : Not applicable.
Boiling point : No data available
Flammability : No data available
Lower explosion limit : No data available
Upper explosion limit : No data available
Flash point : Not applicable.
Auto-ignition temperature : Not applicable.
Decomposition temperature : No data available
pH : No data available
pH solution : No data available
Viscosity, kinematic (calculated value) (40 °C) : Not applicable.
Partition coefficient n-octanol/water (Log Pow) : No data available
Partition coefficient n-octanol/water (Log Kow) : No data available
Vapour pressure : No data available
Vapour pressure at 50 °C : No data available
Density : No data available
Relative density : Not applicable.
Relative vapour density at 20 °C : No data available
Relative density of saturated gas/air mixture : No data available
Relative gas density : No data available
Solubility : No data available.
Viscosity, dynamic : No data available
Particle size : No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

Explosive limits : No data available
Explosive properties : No data available
Oxidising properties : No data available

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Critical temperature	: No data available
Critical pressure	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)	
LD50 oral rat	> 15 g/kg
LD50 oral	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

Rosin (8050-09-7)	
LD50 oral rat	7600 mg/kg
LD50 dermal rabbit	> 2500 mg/kg
LC50 Inhalation - Rat	1.5 mg/l/4h

Skin corrosion/irritation	: Not classified pH: No data available
Serious eye damage/irritation	: Not classified pH: No data available
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: May cause cancer.
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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Viscosity, kinematic	Not applicable.
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Harmful to aquatic life.
Hazardous to the aquatic environment, short-term (acute)	: Harmful to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)

LC50 - Fish [1]	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 - Crustacea [1]	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Rosin (8050-09-7)

EC50 - Crustacea [1]	3.8 – 5.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	400 mg/l (Species: Desmodesmus subspicatus)

12.2. Persistence and degradability

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Persistence and degradability	No information available.
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12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water (Log Pow)	No data available
Partition coefficient n-octanol/water (Log Kow)	No data available
Bioaccumulative potential	No information available.

12.4. Mobility in soil

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Mobility in soil	No additional information available
Ecology - soil	No information available.

12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Contaminated packaging	: Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14: Transport information

In accordance with UN RTDG / IMDG / IATA

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UN RTDG	IMDG	IATA
14.1. UN number		
Not regulated for transport		
14.2. UN Proper Shipping Name		
Not applicable.	Not applicable.	Not applicable.
14.3. Transport hazard class(es)		
Not applicable.	Not applicable.	Not applicable.
Not applicable.	Not applicable.	Not applicable.
14.4. Packing group		
Not applicable.	Not applicable.	Not applicable.
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No
No supplementary information available		

14.6. Special precautions for user

UN RTDG

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

SECTION 16: Other information

Issue date : August/04/2017
Revision date : October/19/2022

Abbreviations and acronyms : ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
ATE - Acute Toxicity Estimate
BCF - Bioconcentration factor
BLV - Biological limit value
BOD - Biochemical oxygen demand (BOD)
COD - Chemical oxygen demand (COD)
DMEL - Derived Minimal Effect level
DNEL - Derived-No Effect Level
EC-No. - European Community number

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EC50 - Median effective concentration
EN - European Standard
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IMDG - International Maritime Dangerous Goods
LC50 - Median lethal concentration
LD50 - Median lethal dose
LOAEL - Lowest Observed Adverse Effect Level
NOAEC - No-Observed Adverse Effect Concentration
NOAEL - No-Observed Adverse Effect Level
NOEC - No-Observed Effect Concentration
OECD - Organisation for Economic Co-operation and Development
OEL - Occupational Exposure Limit
PBT - Persistent Bioaccumulative Toxic
PNEC - Predicted No-Effect Concentration
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS - Safety Data Sheet
STP - Sewage treatment plant
ThOD - Theoretical oxygen demand (ThOD)
TLM - Median Tolerance Limit
VOC - Volatile Organic Compounds
CAS-No. - Chemical Abstract Service number
N.O.S. - Not Otherwise Specified
vPvB - Very Persistent and Very Bioaccumulative
ED - Endocrine disrupting properties

Full text of H-statements:

H317	May cause an allergic skin reaction
H350	May cause cancer
H402	Harmful to aquatic life

Safety Data Sheet (SDS), UN

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.

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.