

Printing Date: 08/01/2024

Revision Time: 08/01/2024

1.1. Product identifier	
Trade Name:	EVEC Rubber Compound
Product-type	Mixture
Chemical Name	Polyisoprene-silica Rubber Compound.
1.2. Relevant identified uses of the substance or	mixture and uses advised against
Application of the substance/ the mixture	Tire Manufacturing
Uses advised against	No further relevant information available
1.3. Details of the supplier of the safety data she	et
Manufacturer/Supplier:	Ecombine Advanced Materials Co., Ltd.
	NO.43 Zhengzhou Road
	Qingdao,266042
	China.

1.4. Emergency telephone number:

SECTION 2: Hazards identification

2.1. Classification	of the substance or	mixture
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1. Skin Sensitization 1	H317
2. Acute Toxicity 4	H302
3. Reproduction 1B	H360
4. Aquatic Chronic 1	H410

2.2. Label elements

the SDS:

Labelling according to Regulation (EC)No 1272/2008 Hazard pictogram



jsyf@ecombine.com

Signal word Hazard-determining components of labelling Hazard statements

Warning

g N-1,3-dimethylbutyl-N'-phenyl-p-phenylenediamine

H302: Harmful if swallowed.

H317: May cause an allergic skin reaction.

H360: May damage fertility or the unborn child





Printing Date: 08/01/2024		Revisio	on Time: 08/01/2024
	H410: Very toxic	to aquatic life with long lasting effe	ects.
Precautionary statements	P103	Read label before use.	
	P262	Do not get in eyes, on skin, or on	clothing.
	P332	If skin irritation occurs, wash wi	th soap and water, if
		irritation persists, seek medical a	ttention.
	P402+403+411	Store in a dry, well ventilat	ed place, store at
		temperatures not exceeding 45°C	2.
	P501	Dispose of contents/container	in accordance with
		local/regional/national/international	onal regulations.
	· · .		
SECTION 3: Composition/informat	ion on ingredients	Mixture	
Substance/Mixture:		wixture	
Ingredients			
Chemical Name:		CAS NO.	%(w/w)
Polyisoprene		9003-31-0	59.5%
Silica		7631-86-9	29.8%
Microcrystalline wax		63231-60-7	0.6%
Hazardous Components			
3-(Triethoxysilyl)propanethiol		14814-09-6	4.3%
STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315			4.5%
Zinc Oxide		1314-13-2	2.0%
Acute aquatic toxicity 1: H400; Chronic aquatic toxicity1: H410			
Stearic Acid		57-11-4	1.2%
Skin Irrit.2:H315; Eye Irrit.2: H319			1.270
N-1,3-dimethylbutyl-N'-phenyl-p-phenylenediamine		793-24-8	1.7%
Acute toxicity, Category 4: H302; Skin se	nsitization, Category 1:		
H317;			
Acute aquatic toxicity, Category 1: H400	;		
Chronic aquatic toxicity, Category 1:H41	0;		
May damage fertility or the unborn ch	ild, Category 1B, H360	May	
damage fertility or the unborn child.			
2,2,4-trimethyl-1,2dihydroquinoline		26780-96-1	0.9%
Aquatic Chronic 3, H412			

SECTION 4: First aid measures 4.1 Description of first aid measures

General Information:

Spontaneous penetration of rubber compounds into human organism is impossible.



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Add: No.43 Zhengzhou Road, Qingdao, Shandong, China 邮编/PC: 266042



Printing Date: 08/01/2024	Revision Time: 08/01/2024	
	Rubber compound at normal conditions is stable and non-volatile.	
	Under high temperatures and during rubber processing release of monomer	
	vapors are possible which in poor ventilated areas may cause irritation of eyes	
	mucous and upper respiratory ways.	
	Contact with eyes may cause mechanical damage, irritation of eyes mucous,	
	delacrimation.	
	No significant health hazard in normal industrial use conditions.	
	Contact with melted/ heated product may cause thermal burns.	
Inhalation:	In emergency and in case of poisoning by rubber combustion products or if	
	decomposition or thermal destruction products are inhaled:	
	Move an exposed person to fresh air at once. Keep warm and at rest. If there is	
	respiratory distress, give oxygen. If respiration stops or shows signs of failing,	
	apply artificial respiration. Get medical attention.	
Skin contact:	Wash with soap and water, remove contaminated clothing and launder before	
	reuse. If irritation persists, seek medical attention. In case of contact with hot	
	product remove contaminated clothing and wash skin with plenty of running	
	water. Get medical attention.	
Eye contact:	Rinse the eye immediately with plenty of water (low pressure) for at least 15	
	minutes.	
	Remove contact lenses. Get medical attention.	
Ingestion:	In case of accidental swallowing:	
	Wash out mouth with water and give plenty of water to drink, provided person	
	is conscious. Do not induce vomiting unless directed to do so by medical	
	personnel. Never give anything by mouth to an unconscious person. If vomiting	
	occurs naturally, have the exposed person lean forward. Get medical attention.	
4.2 Most important symptoms and effect	ts, both acute and delayed	
	No information available	
4.3 Indication of any immediate medical	attention and special treatment needed	
	No further information available	
SECTION 5: Firefighting measures		
5.1 Extinguishing media		
Suitable extinguishing agents:	Use foam, dry chemical, carbon dioxide, sand or water	
	spray.	
Unsuitable extinguishing media:	No information.	
5.2 Special hazards arising from the subs		
	Combustion generates irritating and toxic fumes.	
	Burning causes emissions of carbon oxide.	
5.3 Advice for firefighters		



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Printing Date: 08/01/2024

Protective equipment:

Revision Time: 08/01/2024

Wear canvas protective suit, gloves, helmets, face shields, rubber or kersey boots, gas mask.

SECTION 6: Accidental release measures		
6.1 Personal precautions, protective e	equipment and emergency procedures	
	Wear protective equipment. Keep unprotected persons away. Ensure adequate	
	ventilation.	
6.2 Environmental precautions:		
	Not available.	
6.3 Methods and material for contain	ment and cleaning up	
	Collect mechanically and place into a suitable disposal container. Avoid generating	
	dusty conditions. Remove all sources of ignition. Use a spark-proof tool.	
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	
Information about fire and explosion protection:	Handle in accordance with good industrial hygiene and safety
	practice.
	Provide input-extract and local ventilation of work zones.
	Provide thorough sealing and grounding of process equipment.
	Regularly control work zone air.
	Use explosion-proof apparatus / fittings and spark-proof tools. Avoid
	naked flames. Remove ignition sources. Avoid sparks. Do not smoke.
General occupational hygiene	Comply with personal hygiene measures and use the personal
	protective equipment (see Section 8).
	Do not smoke, eat or drink in the workplace.
	Do not inhale gases / fumes / aerosols.
	Work rooms must be equipped with adequate ventilation and
	exhaust equipment to collect the gas/vapours that may be evolved
	during handling.
	Keep away from food stuffs, beverages and feed.
	Wash hands before breaks and at the end of work.
	Store protective clothing separately.
7.2 Conditions for safe storage, including any inco	mpatibilities
Requirements to be met by storerooms and recept	acles: Store in a dry, well-ventilated area, at temperature not

exceeding 30°C.

Keep away from direct sunlight, atmospheric precipitation and incompatible substances.





Printing Date: 08/01/2024	Revision Time: 08/01/2024
	Keep away from heat, sparks, and flame. Keep away from
	sources of ignition.
	Prevent from freezing.
Information about storage in one common storage	facility Store away from oxidizing agents.
Further information about storage conditions:	No further relevant information available.
7.3 Special end use(s)	
	No further relevant information available.
SECTION 8: Exposure controls/personal prot	ection
8.1 Control parameters	
None data available for rubber elastomers. For the	additives, related data from respective MSDS are listed below:
Exposure limits:	N-1,3-dimethylbutyl-N'-phenyl-p-phenylenediamine:
	OSHA PEL/8Hr-TWA = 15mg/m ³ (Total Dust).
	OSHA PEL/8Hr-TWA = 0.5 mg/m ³ (Respirable Dust).
	ACGIH TLV/8-Hr TWA = 10 mg/m ³ .
	Wax:
	ACGIH TLV/8-Hr TWA = 2 mg/m^3 .
	Silica:
	ACGIH TLV/8-Hr TWA = 10 mg/m^3 .
8.2 Exposure controls	
Appropriate engineering controls:	Forced-air and exhaust ventilation in work zones.
	Sealing and grounding of equipment and communications.
	Usage of intrinsically safe equipment.
Personal protection equipment:	Respiratory tract:
	Not required (if is used workplace conditions).
	In emergency or in case of increase of hazardous substances
	concentration at the workplace wear positive pressure MSHA/NIOSH-
	approved self-contained breathing apparatus.
	Hand protection:
	Wear approved protective gloves.
	Eye protection:
	Wear approved safety goggles.
	Skin protection:
	Wear protective clothing and footwear, in contact with the hot
Environmental exposure controls:	product wear thermally resistant gloves. No further information available.
SECTION 9: Physical and chemical properties	
Section 5. Physical and chemical properties	

9.1 Information on basic physical and chemical properties			
Physical state at 20°C and 101.3 kPa	Solid		
Appearance	Rubber		
Odour	Peculiar		
益凯新材料有限公司 Ecombine Advanced Materials Co., Ltd	地址:山东省青岛市郑州路43号 传真/Fax: +86 -532 -68862108	Add: No.43 Zhengzhou Road, Qingdao, Shandong, China 邮编/PC: 266042	5



Printing Date: 08/01/2024

Revision Time: 08/01/2024

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Color	Brown to black
pH value	Not applicable, insoluble
Melting point	>200°C
Ignition temperature	>315℃
Auto-ignition temperature	>400°C
Relative density	1.18-1.20 g/cm ³
Solubility	Insoluble in water.
	Soluble in aromatic and aliphatic solvents (benzene,toluene, heptane, hexane
	etc.)
Flammability	Does not ignite spontaneously, burn only upon entering into a source of fire.
Explosive properties	Non explosive
Average molecular weight	300000-400000
Granulometry	Not applicable, substance is not marketed or used in granular form.

SECTION 10: Stability and reactivity	
10.1 Reactivity	Undergoes oxidation, oxidative destruction.
10.2 Chemical stability	Stable under normal temperatures and pressures.
10.3 Possibility of hazardous reactions	Combustion generates irritating and toxic fumes.
	Burning causes emissions of carbon oxide.
10.4 Conditions to avoid	Avoid high temperatures. Avoid naked flame. Avoid exposure to direct sun
	beams. Avoid contact with water
10.5 Incompatible materials:	Avoid the contact with oxidising substances.
10.6 Hazardous decomposition products:	Carbon monoxide, Carbon dioxide, Nitrogen oxides.

SECTION 11:	Toxicological	information
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General information:

Rubber compounds are blends of polymer, chemical additives and extended with MINERAL oil. In usual industrial conditions, the SSBR and HCBR elastomer is very stable. But other major additives may cause effects other than elastomers, therefore the relative data of major additives were listed for reference. The source of the toxicological data for each of the major components listed are the SDS of their suppliers.

11.1 Silica

Skin Irritation: Mildly irritation

Eye Irritation: Mildly irritaition

Carcinogenicity status:

This product is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, ACGIH or OSHA.

Medical Conditions Aggravates: None Known.

Disclaimer: Silica in the rubber compounds have been modified and chemically bonded with polymers, therefore the





Printing Date: 08/01/2024				Revisio	n Time: 08/01/2024	
effects of silica as powder are elimina	ted.					
11.2 Bis (Triethoxysilylpropyl)Tetra	sulfane					
Toxicity values:						
Route	Species	Test	Valu	e Un	its	
ORAL	RAT	LD50	>176	75 mg	/kg	
DERMAL	RAT	LD50	>498	3 mg	/kg	
Relevant hazards for substance:						
Hazard		Route		Basis		
Skin corrosion/irritati	on	DRM		Based on test data		
Serious eye damage/	irritation	OPT		Based on test data		
STOT-single exposure		INH		Based on test data		
11.3 Stearic Acid						
Acute toxicity:		ivn-mus LD50:	23 mg/kg			
		ivn-rat LD50: 2				
		orl-rat LDLo: 4				
Skin corrosion/irritation:		skn-rbt LD50:>5 g/kg				
		skn-hmn 75 m				
		skn-rbt 500 mg	g/24H MOD			
Serious eye damage/irritation:		No data availa	ble			
Respiratory or skin sensitization	:	No data availa	ble			
Germ cell mutagenicity:		No data availa	ble			
Carcinogenicity:		imp-mus TDLo	:400 mg/kg			
Reproductive toxicity:		No data availa	ble			
Stot-single exposure:		No data availa	ble			
Stot-repeated exposure:		No data availa	No data available			
Aspiration hazard:		No data availa	ble			
11.4 N-1,3-dimethylbutyl-N'-pheny	l-p-phenvle	enediamine				
Acute toxicity:		LD50(Oral,Rat)):3580 mg/kg			
•			Rabbit): >7940 ug	/kg		
		-	n, Rat): Not availa	-		
Skin corrosion/irritation:		Species: Rabbi				
· · · · · · · · · · · · · · · · · · ·		Exposure time				
		Result: No skir				
Serious eye damage/irritation:		Species: Rabbi				
		Exposure time				
		Result: slight				
Respiratory or skin sensitization	:	Test Type: Skin	sensitization			
益凯新材料有限公司		省青岛市郑州路43号		nou Road, Qingdao, Sha	ndong, China	
Ecombine Advanced Materials Co., Ltd	15員/Fax:+	86 -532 -68862108	邮编/PC: 266042		7	



Printing Date: 08/01/2024	Revision Time: C	8/01/2024
	Species: Guinea pig	
	Result: May cause sensitization by skin contact.	
	Test Type: Human experience	
	Result: May cause sensitization by skin contact.	
Germ cell mutagenicity:		
Genotoxicity in vitro :	Test Type: Mutagenicity - Bacterial	
	Metabolic activation: +/- activation	
	Method: Bacterial Reverse Mutation Assay	
	Result: negative	
	: Metabolic activation: +/- activation	
	Method: In vitro Mammalian Chromosome	
	Aberration Test	
	Result: positive	
Genotoxicity in vivo :	Test Type: various	
	Species: Rat	
	Result: negative	
Carcinogenicity:		
	Species: Rat, (Male and Female)	
	Application Route: Ingestion	
	Method: OECD Test Guideline 451	
	Remarks: Based on available data, the	
	classification criteria are not met.	
Reproductive toxicity:		
Effects on fertility :	Test Type: OECD	
	Test No. 421: Reproduction/Developmental	
	Toxicity Screening Test	
	Species: Rat	
	Application Route: Oral	
	NOAEL: 100 mg/kg,	
	F1: 100 mg/kg	
Effects on foetal development	Species: Rat	
	Application Route: Oral	
	No observed adverse effect level100 mg/kg	
	Method: OECD Test No. 421: Reproduction/Developmental	
	Toxicity Screening Test	
STOT-single exposure:	Not classified	
STOT-repeated exposure:	Not classified	
益凯新材料有限公司 Ecombine Advanced Materials Co., Ltd	地址:山东省青岛市郑州路43号 Add: No.43 Zhengzhou Road, Qingdao, Shandong, Chi 传真/Fax: +86 -532 -68862108 邮编/PC: 266042	na 8



Printing Date: 08/01/2024

Revision Time: 08/01/2024

Species: Rat, male and female NOAEL: 20 mg/kg Application Route: by gavage Exposure time: 28 days Species: Rat, male and female NOAEL: 13.5 mg/kg Application Route: in feed Exposure time: 2 years Aspiration toxicity: LD50 Oral - mouse - 7,950 mg/kg Acute toxicity: LD50 Oral - mouse - 7,950 mg/kg Skin corrosion/irritation: Skin - rabbit - Mild skin irritation - 24 h Serious eye damage/irritation: Eyes - rabbit - Mild eye irritation - 24 h Serious eye damage/irritation: Eyes - rabbit - Mild eye irritation - 24 h Serious eye damage/irritation: no data available Germ cell mutagenicity: Genotoxicity in vitro - Hamster - Embryo Unscheduled DNA synthesis Genotoxicity in vitro - Hamster - Embryo Sister chromatid exchange Genotoxicity in vitro - Hamster - Embryo Sister chromatid exchange Genotoxicity in vitro - Hamster - Embryo Sister chromatid exchange Genotoxicity in vitro - Hamster - Embryo Sister chromatid exchange Genotoxicity in vitro - Hamster - Embryo Sister chromatid exchange Genotoxicity in vitro - Hamster - Embryo Sister chromatid exchange Genotoxicity in vitro - Hamster -	Repeated dose toxicity:	
Application Route: by gavage Exposure time: 28 days Species: Rat, male and female NOAEL: 13.5 mg/kg Application Route: in feed Exposure time: 2 yearsAspiration toxicity:Not classified11.5 Zinc OxideLD50 Oral - mouse - 7,950 mg/kg LC50 Inhalation - mouse - 2,500 mg/m3Skin corrosion/irritation:Skin - rabbit - Mild eye irritation - 24 h Eyes - rabbit - Mild eye irritation - 24 h Eyes - rabbit - Mild eye irritation - 24 h Eyes - rabbit - Mild eye irritation - 24 h Denotative in the error of this productive toxicity:Germ cell mutagenicity:Genotoxicity in vitro - Hamster - Embryo Unscheduled DNA synthesis Genotoxicity in vitro - Hamster - Embryo Sister chromatid exchange Genotoxicity in vitro - Jameser - Embryo Sister chromatid exchange Genotoxicity in vitro - Jameser - Embryo Sister chromatid exchange Genotoxicity in vitro - guinea pig - Inhalation Unscheduled DNA synthesis Inhalation Unscheduled DNA synthesis Inhalation Unscheduled DNA synthesis A spriter and requal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.Reproductive toxicity:No data available A spiration hazard:11.6 WaxLD50 Oral - rat - male and female - > 5,000 mg/kg (OECD Test Guideline 401) LD50 Dermal - rabbit - 3,600 mg/kgSkin corrosion/irritation:Skin : rabbit Result: No skin irritation - 4 h		Species: Rat, male and female
Exposure time: 28 days Species: Rat, male and female NOAEL: 13.5 mg/kg Application Route: in feed Exposure time: 2 yearsAspiration toxicity:Not classified11.5 Zinc Oxide Acute toxicity:LD50 Oral - mouse - 7,950 mg/kg LC50 Inhalation - mouse - 2,500 mg/m3Skin corrosion/irritation:Skin - rabbit - Mild skin irritation - 24 h Eyes - rabbit - Mild eye irritation - 24 h Eyes - rabbit - Vincscheduled DNA synthesis Genotoxicity in vitro - Hamster - Embryo Morphological transformation. Genotoxicity in vitro - Hamster - Embryo Sister chromatid exchange Genotoxicity in vitro - Hamster - Embryo Sister chromatid exchange Genotoxicity in vitro - Hamster - Embryo Sister chromatid exchange Genotoxicity in vitro - Hamster - Embryo Morphological transformation. Genotoxicity in vitro - Hamster - Embryo A spiration hazard: No data available Aspiration hazard: No data available11.6 Wax Acute toxicity: <b< td=""><td></td><td>NOAEL: 20 mg/kg</td></b<>		NOAEL: 20 mg/kg
Species: Rat, male and female NOAEL: 13.5 mg/kg Application Route: in feed Exposure time: 2 years Aspiration toxicity: Not classified 11.5 Zinc Oxide Acute toxicity: LD50 Oral - mouse - 7,950 mg/kg Acute toxicity: LD50 Oral - mouse - 2,500 mg/m3 Skin corrosion/irritation: Skin - rabbit - Mild skin irritation - 24 h Serious eye damage/irritation: Eyes - rabbit - Mild eye irritation - 24 h Serious eye damage/irritation: no data available Gern cell mutagenicity: Genotoxicity in vitro - Hamster - Embryo Unscheduled DNA synthesis Genotoxicity in vitro - Hamster - Embryo Sister chromatid exchange Genotoxicity in vitro - Hamster - Embryo Sister chromatid exchange Genotoxicity in vitro - Hamster - Embryo Sister chromatid exchange Genotoxicity in vitro - guinea pig - Inhalation Unscheduled DNA synthesis Carcinogenicity: ARC: No components of this product present at Ievels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Reproductive toxicity: No data available Aspiration hazard: No data available 11.6 Wax LD50 Oral - rat - male and		Application Route: by gavage
NOAEL: 13.5 mg/kg Application Route: in feed Exposure time: 2 yearsAspiration toxicity:Not classified11.5 Zinc Oxide		Exposure time: 28 days
Application Route: in feed Exposure time: 2 years Aspiration toxicity: Not classified 11.5 Zinc Oxide Acute toxicity: LD50 Oral - mouse - 7,950 mg/kg CC50 Inhalation - mouse - 2,500 mg/m3 Skin corrosion/irritation: Skin - rabbit - Mild skin irritation - 24 h Serious eye damage/irritation: Eyes - rabbit - Mild eye irritation - 24 h Serious eye damage/irritation: no data available Germ cell mutagenicity: Genotoxicity in vitro - Hamster - Embryo Unscheduled DNA synthesis Genotoxicity in vitro - Hamster - Embryo Morphological transformation. Genotoxicity in vitro - Hamster - Embryo Morphological transformation. Genotoxicity in vitro - Hamster - Embryo Morphological transformation. Genotoxicity in vitro - Hamster - Embryo Morphological transformation. Genotoxicity in vitro - Hamster - Embryo Morphological transformation. Genotoxicity in vitro - Hamster - Embryo Morphological transformation. Genotoxicity in vitro - Hamster - Embryo Morphological transformation. Genotoxicity in vitro - Hamster - Embryo Morphological transformation. Genotoxicity in vitro - Hamster - Embryo Morphological transtormation. Genotoxicity in v		Species: Rat, male and female
Aspiration toxicity: Not classified 11.5 Zinc Oxide LD50 Oral - mouse - 7,950 mg/kg LC50 Inhalation - mouse - 2,500 mg/m3 Skin corrosion/irritation: Skin - rabbit - Mild skin irritation - 24 h Eyes - rabbit - Mild eye irritation - 24 h Eyes - rabbit - Mild eye irritation - 24 h Eyes - rabbit - Mild eye irritation - 24 h Eyes - rabbit - Mild eye irritation - 24 h Magnitud eye irritation - 24 h Eyes - rabbit - Mild eye irritation - 24 h Eyes - rabbit - Mild eye irritation - 24 h Eyes - rabbit - Mild eye irritation - 24 h Eyes - rabbit - Mild eye irritation - 24 h Genotoxicity in vitro - Hamster - Embryo Unscheduled DNA synthesis Genotoxicity in vitro - Hamster - Embryo Morphological transformation. Genotoxicity in vitro - Hamster - Embryo Morphological transformation. Genotoxicity in vitro - Hamster - Embryo Sister chromatid exchange Genotoxicity in vitro - Hamster - Embryo Sister chromatid exchange Genotoxicity in vitro - guinea pig - Inhalation Unscheduled DNA synthesis Carcinogenicity: IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Reproductive toxicity: No data available Aspiration hazard: No data available 11.6 Wax LD50 Orral - rat - male and female - > 5,000 mg/kg (OECD Test Guideline 401) LD50 Dermal - rabbit -> 3,800 mg/kg Skin corrosion/irritation: Skin - rabbit Result: No skin irritation - 4 h		NOAEL: 13.5 mg/kg
Aspiration toxicity: Not classified 11.5.Zinc Oxide LD50 Oral - mouse - 7,950 mg/kg Acute toxicity: LD50 Oral - mouse - 2,500 mg/m3 Skin corrosion/irritation: Skin - rabbit - Mild skin irritation - 24 h Serious eye damage/irritation: Eyes - rabbit - Mild eye irritation - 24 h Serious eye damage/irritation: Eyes - rabbit - Mild eye irritation - 24 h Respiratory or skin sensitization: no data available Germ cell mutagenicity: Genotoxicity in vitro - Hamster - Embryo Unscheduled DNA synthesis Genotoxicity in vitro - Hamster - Embryo Morphological transformation. Genotoxicity in vitro - Hamster - Embryo Morphological transformation. Genotoxicity in vitro - Hamster - Embryo Morphological transformation. Genotoxicity in vitro - guinea pig - Inhalation Unscheduled DNA synthesis Genotoxicity in vitro - guinea pig - Inhalation Unscheduled DNA synthesis Unscheduled DNA synthesis Carcinogenicity: IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Reproductive toxicity: No data available 11.6 Wax LD50 Oral - rat - male and female - > 5,000 mg/kg (OECD Test Guideline 401) <t< th=""><th></th><th>Application Route: in feed</th></t<>		Application Route: in feed
11.5 Zinc Oxide Acute toxicity: LD50 Oral - mouse - 7,950 mg/kg LCS0 Inhalation - mouse - 2,500 mg/m³ Skin corrosion/irritation: Skin - rabbit - Mild skin irritation - 24 h Serious eye damage/irritation: Eyes - rabbit - Mild eye irritation - 24 h Serious eye damage/irritation: no data available Germ cell mutagenicity: Genotoxicity in vitro - Hamster - Embryo Unscheduled DNA synthesis Genotoxicity in vitro - Hamster - Embryo Morphological transformation. Genotoxicity in vitro - Hamster - Embryo Sister chromatid exchange Genotoxicity in vitro - Hamster - Embryo Sister chromatid exchange Genotoxicity in vitro - Hamster - Embryo Sister chromatid exchange Genotoxicity in vitro - Hamster - Embryo Sister chromatid exchange Genotoxicity in vitro - Hamster - Embryo Sister chromatid exchange Genotoxicity in vitro - guinea pig - Inhalation Unscheduled DNA synthesis Larcinogenicity: Carcinogenicity: IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Reproductive toxicity: No data available Aspiration hazard: No data available 11.6 Wax L		Exposure time: 2 years
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LC50 Inhalation - mouse - 2,500 mg/m³ Skin corrosion/irritation: Skin - rabbit - Mild skin irritation - 24 h Serious eye damage/irritation: Eyes - rabbit - Mild eye irritation - 24 h Respiratory or skin sensitization: no data available Germ cell mutagenicity: Genotoxicity in vitro - Hamster - Embryo Unscheduled DNA synthesis Genotoxicity in vitro - Hamster - Embryo Morphological transformation. Genotoxicity in vitro - Hamster - Embryo Sister chromatid exchange Genotoxicity in vitro - Hamster - Embryo Genotoxicity in vitro - Hamster - Embryo Unscheduled DNA synthesis Carcinogenicity: IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Reproductive toxicity: No data available Aspiration hazard: No data available 11.6 Wax LD50 Oral - rat - male and female - > 5,000 mg/kg (OECD Test Guideline 401) LD50 Dermal - rabbit - > 3,600 mg/kg Skin corrosion/irritation: Skin - rabbit Skin rabbit Result: No skin irritation - 4 h	11.5 Zinc Oxide	
Skin corrosion/irritation: Skin - rabbit - Mild skin irritation - 24 h Serious eye damage/irritation: Eyes - rabbit - Mild eye irritation - 24 h Respiratory or skin sensitization: no data available Germ cell mutagenicity: Genotoxicity in vitro - Hamster - Embryo Unscheduled DNA synthesis Genotoxicity in vitro - Hamster - Embryo Morphological transformation. Genotoxicity in vitro - Hamster - Embryo Morphological transformation. Genotoxicity in vitro - Hamster - Embryo Sister chromatid exchange Genotoxicity in vitro - guinea pig - Inhalation Unscheduled DNA synthesis Genotoxicity in vitro - guinea pig - Inhalation Unscheduled DNA synthesis IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Reproductive toxicity: No data available Aspiration hazard: No data available 11.6 Wax LD50 Oral - rat - male and female -> 5,000 mg/kg (OECD Test Guideline 401) LD50 Dermal - rabbit - > 3,600 mg/kg Skin - rabbit Skin corrosion/irritation: Skin - rabbit Result: No skin irritation - 4 h Skin - rabbit	Acute toxicity:	LD50 Oral - mouse - 7,950 mg/kg
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Reproductive toxicity:No data availableAspiration hazard:No data available11.6 WaxLD50 Oral - rat - male and female - > 5,000 mg/kg (OECD Test Guideline 401) LD50 Dermal - rabbit - > 3,600 mg/kgSkin corrosion/irritation:Skin - rabbit Result: No skin irritation - 4 h		levels greater than or equal to 0.1% is identified
Reproductive toxicity:No data availableAspiration hazard:No data available11.6 WaxLD50 Oral - rat - male and female - > 5,000 mg/kg (OECD Test Guideline 401) LD50 Dermal - rabbit - > 3,600 mg/kgSkin corrosion/irritation:Skin - rabbit Result: No skin irritation - 4 h		as probable, possible or confirmed human
Aspiration hazard: No data available 11.6 Wax LD50 Oral - rat - male and female - > 5,000 mg/kg (OECD Test Guideline 401) Acute toxicity: LD50 Dermal - rabbit - > 3,600 mg/kg Skin corrosion/irritation: Skin - rabbit Result: No skin irritation - 4 h		carcinogen by IARC.
11.6 Wax Acute toxicity: LD50 Oral - rat - male and female - > 5,000 mg/kg (OECD Test Guideline 401) LD50 Dermal - rabbit - > 3,600 mg/kg Skin corrosion/irritation: Skin - rabbit Result: No skin irritation - 4 h	Reproductive toxicity:	No data available
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Skin corrosion/irritation:LD50 Dermal - rabbit - > 3,600 mg/kgSkin - rabbitSkin - rabbitResult: No skin irritation - 4 h	Acute toxicity:	LD50 Oral - rat - male and female - > 5,000
Skin corrosion/irritation:Skin - rabbitResult: No skin irritation - 4 h		mg/kg (OECD Test Guideline 401)
Result: No skin irritation - 4 h		LD50 Dermal - rabbit - > 3,600 mg/kg
	Skin corrosion/irritation:	Skin - rabbit
(OECD Test Guideline 404)		Result: No skin irritation - 4 h
		(OECD Test Guideline 404)





Revision Time: 08/01/2024

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Serious eye damage/irritation:	Eyes - rabbit
	Result: No eye irritation - 1 s
	(OECD Test Guideline 405)
Respiratory or skin sensitization:	Maximisation Test - guinea pig
	Result: Does not cause skin sensitisation.
	(OECD Test Guideline 406)
Germ cell mutagenicity:	Ames test
	S. typhimurium
	Result: negative
Carcinogenicity:	Carcinogenicity - rat - Implant
	Tumorigenic:Equivocal tumorigenic agent by
	RTECS criteria. Kidney, Ureter,
	Bladder:Tumors.
	IARC: No component of this product present at
	levels greater than or equal to 0.1% is identified
	as probable, possible or confirmed human
	carcinogen by IARC.
Reproductive toxicity:	No data available
Stot-single exposure:	Not classified
Stot-repeated exposure:	Not classified
Aspiration hazard:	No data available

SECTION 12: Ecological information

General information:

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At normal conditions rubber compound is a stable product. The main ingredients polymer is poorly biodegradable but does not pose a hazard to the environment. Additives which have data of ecotoxicological effects are listed.

12.1 Silica

Ecotoxicological Information			
ECo	>1000 ppm (daphnia magna) (24-hour acute		
	immobilization test)-slight to very low toxicity.		
ECo	>10000 ppm (rainbow trout) (4-day static study)- slight to		
	very low toxicity.		
ECo	>10000 ppm (freshwater fish) (96 hour static acute toxicity		
	study) - slight to very low toxicity.		
Environmental Fate	When released into the soil, this material is not expected to biodegrade. When released into water, this material is not expected to		
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Printing Date: 08/01/20	24		Revision Time: 08/01/2024
		biodegrade.	
Environmental toxici	Environmental toxicity This material is not expected to be toxic to aqua		toxic to aquatic life.
12.2 Bis (Triethoxysilylp	ropyl)Tetrasi	lfane	
Ecotoxicity values		Not applicable.	
Persistence and degr	adabilitv	No data available.	
Bioaccumulative pot		No data available.	
Mobility		No data available.	
Pbt identification		This substance is no	t identified as a PBT
		substance.	
Other adverse effect	s	No data available.	
12.3 Stearic Acid			
Toxicity			
Fish	No da	a available	
Crustacea	No da	a available	
Algae	No da	a available	
Mobility In Soil			
Log Pow		8.23	
Soil adsorption (Koc)		7.2 x 105	
Henry's Law constant	: (PaM3/mol)	4.9 x 10-2	
Results of PBT and vPv	B assessmer	t	
PBT		Not applicable	
vPvB		Not applicable	
Persistence and degr	adability	No data available	
Bioaccumulative pot	ential	1100000	
Other adverse effect	S	No data available	
12.4 Zinc Oxides			
Aquatic Toxicity		No further relevant information available	ailable
Persistence and degr	adability	No further relevant information available	ailable
Bioaccumulative pot	ential	No further relevant information available	ailable
Mobility in soil		No further relevant information available	ailable
Ecotoxical effects:			
Remark	Very toxic	or fish	
Additional	General no	tes	
ecological	Do not all	w product to reach ground water,w	vater bodies or sewage
information	system. W	ater hazard class 2(self-assessment) hazardous for water.
	-	drinking water if even small quanti	
	poisonous	for fish and plankton in water bodies	May cause long lasting
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Printing Date: 08/01/2024		Revision Time: 08/01/2024	
harmful effe	ects to aquatic life. Avoid	l transfer into the environment. Very	
toxic for aqu	uatic organisms		
Results of PBT and vPvB assessment			
РВТ	Not applicable.		
vPvB	Not applicable.		
Other adverse effects:	No further relevant i	nformation available.	
12.5 N-1,3-dimethylbutyl-N'-phenyl-p	-phenylenediamine		
Toxicity			
Fish	48h LC50:0.408 r	ng/L (Oryzias latipes)	
Crustacea	No data available	2	
Algae	No data available	2	
Persistence and degradability	2 % (by BOD), 92	% (HPLC)	
Bioaccumulative potential	<1.2 - 17 (conc. 6.	83 ug/L), <12 - 23 (conc. 0.683 ug/L)	
Mobility in soil			
Log Pow	5.4		
Soil adsorption (Koc)	No data availabl	e	
Henry's Law constant (PaM3/mol)	No data availabl	e	
Results of PBT and vPvB assessment			
РВТ	Not applicable		
vPvB	Not applicable		
Other adverse effects	No data available		
12.6 Wax			
Toxicity	no data available		
Persistence and degradability	no data available		
Bioaccumulative potential	no data available		
Mobility in soil	no data available		
Results of PBT and vPvB	PBT/vPvB asses	sment not available as chemical	
assessment	safety assessment not required/not conducted		
Other adverse effects	no data available	-	
SECTION 13: Disposal considerati			
13.1 Waste treatment methods		Dispose in accordance with local and national	
		regulations.	
		Waste water containing rubber should be treated.	
		Packaging waste (paper bags) shall be collected and	
		send for recycling. Plastic waste shall be removed to	
		disposal. Contaminated packaging should be emptied	
		as far as possible and after appropriate cleaning may be	
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Printing Date: 08/01/2024		Revision Time: 08/01/2024
	taken for reuse.	
SECTION 14: Transport information		
14.1 UN-Number		
	Not applicable	
14.2 UN proper shipping name		
	Not applicable	
14.3 Transport hazard class(es)		
	Not applicable	
14.4 Packing group		
	Not applicable	
14.5 Environmental hazards:		
	Not applicable	
14.6 Special precautions for user		
	Not applicable	
14.7 Transport in bulk according to Annex $ { m I\hspace{1em I}}$ of MARPOL	Not applicable	
and the IBC Code		

SECTION 15:Regulatory information

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

This SDS has been drawn up in compliance with the applicable REACH regulation requirements. Chemical Safety Report has been performed for monomers: 1,3-butadiene (CAS #106-99-0; EC #203-450-8), styrene (CAS #100-42-5; EC #202-851-5).

15.2 Chemical safety assessment:

A chemical safety assessment has not been carried out, as not required.

SECTION 16: Other information

16.1 Indication of changes

Version 2.0 Amended by (EU) 2015/830

16.2 Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road RID: Regulation for rail international transportation of Dangerous goods ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways IMDG: Code international maritime dangerous goods code ICAO: International Civil Aviation Organization IATA: International Air Transport Association LC50: median lethal concentration



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Revision Time: 08/01/2024

EC50: The effective concentration of substance that causes 50% of the maximum response.

NOEC: No Observed Effect Concentration DNEL: derived no-effect level

PNEC: predicted no-effect concentration

16.3 Key literature references and sources for data

ECHA Guidance on the compilation of safety data sheets

16.4 Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC)No 1272/2008 Classification procedure Skin Sensitization 1 H317

on basis of test data

16.5 Relevant H-statements (number and full text)

H317: May cause an allergic skin reaction.

16.6 Further information

This information is based on our current level of knowledge. This information may be subject to revision as new knowledge and experience becomes available, and ECOMBINE makes no warranties and assumes no liability in connection with any use of this information.

