Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 2/1/2023 Revision date: 3/8/2023 Version: 1.0

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

1.1. Product identifier Product form : Mixture Name : SOL 5131H 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses Use of the substance/mixture : Raw material for rubber articles 1.2.2. Uses advised against Restrictions on use : Not available 1.3. Details of the supplier of the safety data sheet Manufacturer Supplier Kumho Petrochemical Co.Ltd TsafeE GmbH 287-1, Pyeongyeo-Dong, Yeosu-si Jeollanam-do, Korea Landwehrplatz 6, 66111 Saarbruecken, Germany T +82 61 688 3060 ~ 9 - F +82 61 688 3168 T +49 177 9166175 tsg@tsafeg.com 1.4. Emergency telephone number

CountryOrganisation/CompanyAddressEmergency numberCommentGermanyGiftinformationszentrum-Nord der Länder
Bremen, Hamburg, Niedersachsen und
Schleswig-Holstein (GIZ-Nord)
Universitätsmedizin Göttingen - Georg-
August-UniversitätRobert-Koch Straße 40
37075 Göttingen+49 (0) 551 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412 Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]		
Signal word (CLP) Hazard statements (CLP)	: - : H412 - Harmful to aquatic life with long lasting effects.	
Precautionary statements (CLP)	 P273 - Avoid release to the environment. 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

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as 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 %

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
STYRENE/BUTADIENE COPOLYMER	(CAS-No.) 9003-55-8	90 – 100	Not classified
2,6-di-tert-butyl-p-cresol	CAS-No.: 128-37-0 EC-No.: 204-881-4	0.1 – 1	Aquatic Chronic 1, H410

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Move the affected person away from the contaminated area and into the fresh air. Get medical advice/attention.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Immediately rinse with plenty of water (for a least 15 minutes). Take off contaminated clothing and wash before reuse.
First-aid measures after eye contact	: Do not rub eyes. Continue to rinse for at least 15 minutes. If necessary seek medical advice.
First-aid measures after ingestion	: Do NOT induce vomiting unless directed to do so by medical personnel. Get medical advice/attention.

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measu	ires
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	Dry chemical, CO2, or water spray or regular foam.Do not use water jet to extinguish.
5.2. Special hazards arising from the	he substance or mixture
Explosion hazard	: Heating may cause an explosion.
5.3. Advice for firefighters	
Precautionary measures fire Firefighting instructions	 Avoid ignition sources. Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Cool containers with flooding quantities of water until well after fire is out. Fight fire from safe distance and protected location. Fight fire remotely due to the risk of explosion. Move containers away from the fire area if this can be done without risk. Unauthorized persons
	are not admitted.

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SECTION 6: Accidental release measur	es			
6.1. Personal precautions, protective equip	ment and emergency procedures			
6.1.1. For non-emergency personnel				
Emergency procedures	: Approach the release from upwind. Compliance with applicable regulations. Avoid contact with skin, eyes and clothing. Do not attempt to take action without suitable protective equipment. Do not touch or walk on the spilled product. Evacuate unnecessary personnel. Remove all sources of ignition.			
6.1.2. For emergency responders				
No additional information available				
6.2. Environmental precautions				
Avoid discharge to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.				
6.3. Methods and material for containment	and cleaning up			
For containment	: Collect spillage.			
6.4. Reference to other sections				
No additional information available				
SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
Precautions for safe handling	: Appropriate engineering controls. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide adequate ventilation. Do not handle until all safety precautions have been read and understood. Avoid incompatible materials and conditions. Avoid contact with skin, eyes and clothing. Avoid generation and spreading of dust.			
7.2. Conditions for safe storage, including any incompatibilities				
Storage conditions	: Avoid shock and friction. Avoid static, spark, and fire hazards. Direct sunlight. Do not allow to enter drains or water courses. Do not expose to heat. Keep cool. Store in dry, cool, well-ventilated area.			

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure

8.2.2.2. Skin protection

Skin and body protection:

Protective clothing

8.2.2.3. Respiratory protection

Respiratory protection:

Wear suitable respiratory equipment in case of insufficient ventilation

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Colour	:	dark brown.
Odour	:	slight.
Odour threshold	:	Not available
Melting point	:	Not available
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Not available
Explosive limits	:	Not applicable
Lower explosion limit	:	Not applicable
Upper explosion limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not available
рН	:	Not available
pH solution	:	Not available
Viscosity, kinematic	:	Not applicable
Solubility	:	Insoluble.
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	Not available
Relative density	:	≈ 0.95
Relative vapour density at 20°C	:	Not applicable
Particle size	:	Not available
Particle size distribution	:	Not available
Particle shape	:	Not available

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Particle aspect ratio	:	Not available
Particle aggregation state	:	Not available
Particle agglomeration state	:	Not available
Particle specific surface area	:	Not available
Particle dustiness	:	Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Direct sunlight. Keep away from heat/hot surfaces/sparks/open flames/other ignition sources. No smoking. Incompatible materials.

10.5. Incompatible materials

acid. Strong oxidizing agents. Strong bases. Flammable or combustible materials. Carbonyl halogenides. metals.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO2). Aldehydes. May liberate toxic gases.

SECTION 11: Toxicological information

11.1. Information on h	azard classes as defined	d in Regulation (EC) No 1272/200)8

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

2,6-di-tert-butyl-p-cresol (128-37-0)	
LD50 oral rat	> 6000 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat [ppm]	> ppm
Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Skin corrosion/irritation :	Not classified

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2,6-di-tert-butyl-p-cresol (128-37-0)	
Skin corrosion/irritation	Not classified
Serious eye damage/irritation :	Not classified
2,6-di-tert-butyl-p-cresol (128-37-0)	
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation :	Not classified
2,6-di-tert-butyl-p-cresol (128-37-0)	
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity :	Not classified
2,6-di-tert-butyl-p-cresol (128-37-0)	
Germ cell mutagenicity	Not classified
Carcinogenicity :	Not classified
2,6-di-tert-butyl-p-cresol (128-37-0)	
NOAEL (chronic, oral, animal/male, 2 years)	25 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:
Carcinogenicity	Not classified
Reproductive toxicity :	Not classified
2,6-di-tert-butyl-p-cresol (128-37-0)	
LOAEL (animal/male, F1)	25 mg/kg bodyweight
LOAEL (animal/female, F1)	25 mg/kg bodyweight
NOAEL (animal/male, F0/P)	500 mg/kg bodyweight
NOAEL (animal/female, F0/P)	500 mg/kg bodyweight
Reproductive toxicity	Not classified
STOT-single exposure :	Not classified
2,6-di-tert-butyl-p-cresol (128-37-0)	
STOT-single exposure	Not classified
STOT-repeated exposure :	Not classified
2,6-di-tert-butyl-p-cresol (128-37-0)	
NOAEL (oral, rat, 90 days)	25 mg/kg bw/day
STOT-repeated exposure	Not classified
Aspiration hazard :	Not classified
2,6-di-tert-butyl-p-cresol (128-37-0)	
Aspiration hazard	Not classified

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11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term : Not classified (acute) Hazardous to the aquatic environment, long-term : Harmful to aquatic life with long lasting effects. (chronic) Not rapidly degradable

2,6-di-tert-butyl-p-cresol (128-37-0) LC50 - Fish [1] 0.199 mg/l EC50 - Crustacea [1] 0.48 mg/l Test organisms (species): Daphnia magna EC50 72h - Algae [1] > 0.4 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) LOEC (chronic) 1 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC (chronic) 0.023 mg/l Test organisms (species): Daphnia magna Duration: '21 d' Not classified Hazardous to the aquatic environment, short-term (acute) Hazardous to the aquatic environment, long-term Very toxic to aquatic life with long lasting effects. (chronic)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Waste treatment methods	: incineration. Waste treatment and disposal. Recycle the material as far as possible. Separate using oil separator. Comply with applicable regulations. Depending on the local regulations it may be disposed of as solid waste or incinerated in a suitable installation.		
HP Code	: Auto detect - Auto detect		

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SECTION 14: Transport information In accordance with ADR / IMDG / IATA / ADN / RID					
14.1. UN number or ID n	umber				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.2. UN proper shippin	g name	·			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.3. Transport hazard o	class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.4. Packing group					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.5. Environmental haz	ards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
No supplementary informatic	on available	·			

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport Not regulated

Inland waterway transport Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

15.1.2. National regulations

Germany

Employment restrictions

: Observe restrictions according Act on the Protection of Working Mothers (MuSchG) Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

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:

Water hazard class (WGK) Hazardous Incident Ordinance (12. BImSchV) Storage class (LGK, TRGS 510) Joint storage table WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)
 Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

: LGK 13 - Non-combustible solids

LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

Joint storage not permitted for Joint storage with restrictions permitted for Joint storage permitted for : LGK 1, LGK 6.2, LGK 7

: LGK 4.1A, LGK 5.1C

: LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:		
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
H410	Very toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU, TSAFEG

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.