

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

1.1. Product identifier

Product form	: Substance
Trade name	: HIPREN EM 1500 T
Compound group	: Synthetic rubber
Chemical name	: Styrene-1,3-butadiene copolymer (cold emulsion copolymerization, without nitrosamine)
CAS No	: 9003-55-8
EC No	: 618-370-2
Formula	: C ₃₆ H ₄₂ X ₂
Synonyms	: SBR / SBR rubber / 1,3-butadiene-styrene copolymer / Styrene-butadiene rubber / Styrene/butadiene copolymer / Styrene, 1,3-butadiene polymer / Styrene-butadienerubber1500 / POLY(STYRENE-CO-BUTADIENE) / Butadiene-styrene rubber / SBR elastomer
Product group	: Trade product

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

1.2.1. Relevant identified uses

Main use category	: Industrial/Professional use
Use of the substance	: Technical rubber goods, extruded products, heavy conveyer belts, light tires.

1.2.2. Uses advised against

No additional information available.

1.3. Details of the supplier of the safety data sheet

1.3.1. Manufacturer/Supplier

HIP-Petrohemija a.d. Pancevo
Spoljnostarcevacka 82
26000 Pancevo
Republic of Serbia
www.hip-petrohemija.com

Synthetic rubber Plant
23208 Elemir
Republic of Serbia
fsk@hip-petrohemija.rs

Customer service

Tel: + 381 (0) 13 307 000
Fax: + 381 (0) 13 310 207
E-mail (person responsible for the SDS):
ivana.kosovic@hip-petrohemija.rs

Tel: + 381 (0) 23 758 600

1.3.2. Only Representative

REACH Law Ltd.
Polaris Business Park
Vänrikinkuja 3 / 02600 Espoo
Finland
E-mail: SDS@reachlaw.fi
www.reachlaw.fi

1.4. Emergency telephone number

Poisoning Control Centre	: + 381 (0) 11 266 11 22 (00-24h) + 381 (0) 11 266 27 55 (00-24h) + 381 (0) 11 360 84 40 (00-24h)
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HIP-Petrohemija (available during office hours: Monday to Friday) : + 381 (0) 13 30 74 40 (08-16h)

See SECTION 16. for the list of telephone numbers of poison centers in the European Economic Area

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Health hazards: Repr. 1B H360

Environmental hazards: Aquatic Chronic 2 H411

Note: Full text of hazard classes and H-statements: see section 16

2.2. Label elements

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

The product does not meet the criteria for labelling in accordance with Regulation (EC) No 1272/2008, Annex I.

2.3. Other hazards

PBT/vPvB : The product contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0,1% or higher, according to REGULATION (EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substance

Substance name	Product identifier	%(w/w)	Classification according to Regulation (EC) No 1272/2008 [CLP]
Styrene-1,3-butadiene copolymer	(CAS No) 9003-55-8 (EC No) 618-370-2	93	Not classified
Resin acids and Rosin acids, sodium salts	(CAS No) 61790-51-0 (EC No) 263-144-5	6,5	Eye Irrit. 2, H319
N-1,3-dimethylbutyl-N'-phenyl-p-phenylenediamine	(CAS No) 793-24-8 (EC No) 212-344-0	0,5	Acute Tox. 4, H302 Skin Sens. 1, H317 Repr. 1B, H360 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Note: Full text of hazard classes and H-statements: see section 16

3.2. Mixture

Not applicable.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general :Wear protective clothes and gloves.

First-aid measures after inhalation :Vapours released by/from melted product causes nausea. Go out to fresh air. Rinse throat with water. If symptoms persist, seek medical attention.

First-aid measures after skin contact :It is not expected that contact with the product at room temperature may cause any effects. Particles and vapours may irritate skin slightly. Minimize contact with skin. After work wash hands with soap and water, and use protective cream. Do not remove solidified product. Cool melted product on skin with plenty of water. In case of thermal burns seek medical attention.

First-aid measures after eye contact :Remove contact lenses, if any. Flush eyes with water thoroughly. Keep eye wide open while rinsing. If there are signs of irritation, pain, swelling, lachrimation or other symptoms consult an ophthalmologist and seek for advice on further treatment. In case of contact with melted product, immediately cool down the melted product and continue rinsing eyes for at least 15 minutes.

First-aid measures after ingestion : Ingestion is not considered a likely route of exposure. Never give anything by mouth to an unconscious person.

Advice for a doctor : Treat symptomatically.

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

Upon direct contact with the product susceptible persons may suffer from skin/eye irritations. *See section 11, Toxicological information.*

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

In case of any unwanted reaction or inconvenience, call Poison Control Centre or a doctor and seek medical attention. *See subsection 1.4, Emergency telephone number.*

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water, spray water, heavy, medium and light foam, powder (A, B, C) or carbon dioxide.

Unsuitable extinguishing media : DO NOT use water jet.

5.2. Special hazards arising from the substance or mixture

In the case of fire the product burns with sooty flame and releases heavy smoke consisting of water steam, carbon dioxide, carbon monoxide (due to oxygen deficiency), mixture of hydrocarbons and carbon black. Overheating / pyrolysis develop vapours consisting of monomers, polymers of small molecular weights and products of their oxidation.

5.3. Advice for firefighters

Special protective equipment for fire-fighters : Use self-contained breathing apparatus and protective clothing. *See section 6, Accidental release measures.*

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Immediately evacuate all personnel from danger area. Avoid breathing vapours. Ensure adequate ventilation. Wear adequate personal protective equipment and clothes during cleaning up. Contact with melted material may cause serious thermal burns. Persons without adequate protective equipment should be removed from the zone until cleaning of the spilled material is completed.

6.2. Environmental precautions

Prevent waste from contaminating the surrounding environment. Discard any product, residue, or liner in an environmentally acceptable manner, in full compliance with federal, state, and local regulations. Do not discharge into drains/surface waters/groundwater. If the spillage contaminates rivers, lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up

Collect mechanically. Collect spilled material into adequate containers for regeneration or disposal in accordance with the national and local regulations.

6.4. Reference to other sections

See section 7, Handling and storage. See subsection 8.2, Exposure controls. See section 13, Disposal considerations.

7.1. Precautions for safe handling

Avoid prolonged or repeated contact with skin. Do not get molten material in eyes, on skin or clothing. Apply measures for maintaining personal hygiene and use personal protective equipment. Wear protective gloves and goggles. Wash hands before smoking or eating. Do not smoke, eat or drink at the working place. Take precautionary measures against static discharges. Avoid contact with ignition sources. *Section 8: Exposure controls/personal protection.*

Increased working temperatures when processing may result from partial thermal degradation: the following data is given for guidance purposes – the maximum allowable temperature during operation is 200°C, however it is allowed for very short time period. The product is very weak conductor and probably it will

accumulate electrostatic electricity. In case of processing for which material in powder form is used or where dust may be created during operation, it is necessary to apply precautionary measures which are normally applied for materials which are not conductors and those for preventing accumulation of electrostatic electricity (i.e. minimize the speed, install grounding, forbid smoking and usage of open flames, utilize inert gases in mills and closed systems).

7.2. Conditions for safe storage, including any incompatibilities

The product should be stored in an indoor, dry place, on a flat surface, protected against moisture, dust, dirt, and eventual damage, on temperatures below 30°C and protected against direct sunlight. Provide proper ventilation within the storage space. There are no restrictions regarding the product quantity for storage.

The product shall retain its properties for not longer than one year period provided these conditions are fulfilled at any time during this period. The manufacturer shall not be held responsible for any damage resulting from inappropriate storage of the product. See subsection 10.4, Conditions to avoid. See subsection 10.5, Incompatible materials.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

N-1,3-dimethylbutyl-N'-phenyl-p-phenylenediamine (793-24-8)	
DNEL (Workers)	
DNEL short-term, inhalation	56,8 mg/m ³
DNEL long-term, inhalation	1,7 mg/m ³
DNEL (General population)	
DNEL short-term, inhalation	13,6 mg/m ³
DNEL long-term, inhalation	1,7 mg/m ³
DNEL short-term, oral	4 mg/kg bw/day
DNEL long-term, oral	0,5 mg/kg bw/day
PNEC	
PNEC soil	0,0369 mg/kg
PNEC sediment fresh water	0,0458 mg/kg
PNEC sediment marine water	0,00458 mg/kg
PNEC fresh water	0,000371 mg/l
PNEC marine water	0,0000371 mg/l

Resin acids and Rosin acids, sodium salts (CAS 61790-51-0)	
DNEL (Workers)	
DNEL long-term, inhalation	117 mg/m ³
DNEL long-term, dermal	17 mg/kg bw/day
DNEL (General population)	
DNEL long-term, inhalation	35 mg/m ³
DNEL long-term, dermal	10 mg/kg bw/day
DNEL long-term, oral	10 mg/kg bw/day
PNEC	
PNEC soil	0,0369 mg/kg
PNEC sediment fresh water	0,0458 mg/kg
PNEC sediment marine water	0,00458 mg/kg
PNEC fresh water	0,000371 mg/l
PNEC marine water	0,0000371 mg/l

8.2. Exposure controls

Appropriate engineering controls

:Ensure adequate ventilation.

Personal protective equipment

:Wear recommended personal protective equipment. Avoid all unnecessary

Hand protection	exposure.
Eye protection	:Wear protective gloves.
Skin and body protection	:Chemical goggles or safety glasses are not necessary if there is no dust or vapours present. If there is dust or vapours present, wear goggles or eyes protection in combination with an insulating apparatus.
Respiratory protection	:Wear suitable protective clothing. Chemically resistant gloves which significantly prevent contact with skin.
Thermal hazard protection	:In case of insufficient ventilation, wear suitable respiratory equipment.
Environmental exposure controls	:Wear thermal protective clothing, when necessary.
Other information	:Avoid release to the environment. Do not discharge into drains.
	:Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	:Solid
Form	:Amorphous product pressed into bales
Colour	:Dark brown
Odour	:Mild
Odour threshold	:No data available.
PH	:Not applicable.
Melting point/freezing point	:410°C
Boiling point	:Not applicable.
Flash point	:280°C
Evaporation rate	:No data available.
Flammability (solid, gas)	:No data available.
Flammability range	:No data available.
Auto-ignition temperature	:No data available.
Critical pressure	:No data available.
Relative density @ 15°C (water=1)	:0,940
Solubility in water	:Insoluble
Vapour pressure	:Not applicable.
Partition coefficient (n-octanol/water)	:Not applicable.
Viscosity	:No data available.
Explosive properties	:Not explosive.
Oxidising properties	:No oxidising properties.

9.2. Other information

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Unreactive under normal conditions of storage and use. See further information in subsections below.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated. See *section 7, Handling and storage*.

10.3. Possibility of hazardous reactions

No hazardous reactions to be expected if used properly.

10.4. Conditions to avoid

Avoid extreme temperatures. Avoid direct sunlight. Avoid heat sources, open flames and other ignition sources.

10.5. Incompatible materials

Avoid contact with strong oxidizing agents, organic solvents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Incomplete combustion may form carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). See section 5.2, *Special hazards arising from the substance or mixture.*

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	:Not classified. Based on available data, the classification criteria are not met.
Skin corrosion/irritation	:Not classified. Based on available data, the classification criteria are not met. pH: Not applicable.
Serious eye damage/irritation	:Not classified. Based on available data, the classification criteria are not met. pH: Not applicable.
Respiratory or skin sensitisation	:Not classified. Based on available data, the classification criteria are not met.
Germ cell mutagenicity	:Not classified. Based on available data, the classification criteria are not met.
Carcinogenicity	: Not classified. Based on available data, the classification criteria are not met.
Reproductive toxicity	:May damage fertility or the unborn child.
Specific target organ toxicity (single exposure)	:Not classified. Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure)	:Not classified. Based on available data, the classification criteria are not met.
Aspiration hazard	:Not classified. Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

N-1,3-dimethylbutyl-N'-phenyl-p-phenylenediamine (793-24-8)	
LC50 fish, <i>Oryzias latipes</i>	0,028 mg/L (96h)
EC50 <i>Daphnia magna</i>	0,23 mg/L (48h)
EC50 <i>Desmodesmus subspicatus</i>	2,6 mg/L (72h)
NOEC 30d, fish, <i>Oryzias latipes</i>	0,0037 mg/L

12.2. Persistence and degradability

The product is not easily biodegradable.

12.3. Bioaccumulative potential

The product is not bioaccumulative.

12.4. Mobility in soil

The product shows low mobility through earth due to its physical and chemical properties. It is possible to be removed in mechanical way.

12.5. Results of PBT and vPvB assessment

The product does not meet the PBT and vPvB classification criteria.

12.6. Other adverse effects

No data available.

13.1. Waste treatment methods

Waste disposal recommendations

: Avoid release to environment. Check for the possibility of reuse. Contaminated packaging should be cleaned before recycling. Collect the product in adequate container for recycle or adequate disposal. Disposal to a landfill should be avoided as far as possible. If necessary use an approved landfill. Users are responsible to define toxicity and physical properties of waste materials so that proper identification of wastes and the way of disposal may be determined in accordance with legal regulations. Contact authorized companies for waste disposal.

Additional information

: PE film, cardboard packaging, wooden pallets, and metal box (waste metal) should be disposed in accordance with national and local regulations.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN/ RID:

14.1. UN number

UN No. : Not applicable.

14.2. UN proper shipping name

Proper Shipping Name : STYRENE BUTADIENE RUBBER (copolymer), NOT REGULATED

Transport document description : Not applicable.

14.3. Transport hazard class(es)

Transport hazard class(es) : Not applicable.

Danger labels : Not applicable.

14.4. Packing group

Packing group : Not applicable.

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Special precautions for user : See section 7, Handling and storage.

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

Not applicable.

SECTION 15: Regulatory information

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

EU Regulations:

- REGULATION (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
- REGULATION (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.
- COMMISSION REGULATION (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

The product does not contain any of the substances included in the following lists:

- Annex XIV (authorisation) / substances of very high concern (SVHC)

- Annex XVII (restrictions)

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this product.

SECTION 16: Other information

Indication of changes : Subsection 9.1 and Section 16

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF

THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

ECHA Guidance on the compilation of safety data sheets (Version 3.1 - November 2015)

Guidance for identification and naming of substances under REACH and CLP (Version 2.1 - May 2017)

Training advice

: THE PRODUCT IS RESTRICTED TO PROFESSIONAL USAGE ONLY and must be handled in accordance with good industrial hygiene and safety procedures. Provide adequate information, instruction and training for operators.

Full text of hazard classes and H-statements	
H319	Causes serious eye irritation
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H360	May damage fertility or the unborn child
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
Repr. 1B	Reproductive toxicity, Category 1B
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Acute Tox. 4	Acute toxicity, Category 4
Skin Sens. 1	Skin corrosion/irritation, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment, Category Acute 1
Aquatic Chronic 1	Hazardous to the aquatic environment, Category Chronic 1
Aquatic Chronic 2	Hazardous to the aquatic environment, Category Chronic 2

Abbreviations and acronyms:

SDS	: Safety Data Sheet
UN	: United Nations
EU	: European Union
EC	: European Community
EEC	: European Economic Community
CAS No	: Chemical Abstract Service number
EC No (EINECS)	: European Inventory of Existing Commercial Chemical Substances (European Chemical number: EINECS, ELINCS or NLP)
ELINCS	: European List of Notified Chemical Substances
NLP	: No-Longer Polymer
CLP	: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
ECHA	: European Chemicals Agency
REACH	: Registration, Evaluation, Authorisation and Restriction of Chemicals
PBT	: Persisten, Bioaccumulative and Toxic substance/mixture
vPvB	: Very Persisten and very Bioaccumulative substance/mixture
LC50	: Lethal concentration, 50 percent
EC50	: Effective concentration, 50 percent
NOEC	: No observed effect concentration
DNEL	: Derived No Effect Level
PNEC	: Predicted No Effect Concentration
ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road
RID	: European Agreement concerning the International Rule for Transport of Dangerous Goods by Rail
ADN	: European Agreement concerning the International Carriage of Dangerous Goods by inland Waterways
IMDG	: International Maritime Dangerous Goods



IATA : International Air Transport Association
 MARPOL : International Convention for the Prevention of Marine Pollution from Ships
 IBC : International Bulk Chemical Code

LIST OF TELEPHONE NUMBERS OF POISON CENTRES IN THE EUROPEAN ECONOMIC AREA	
AUSTRIA (Vienna Wien)	+43 1 40 400 2222
BELGIUM (Brussels Bruxelles)	+32 70 245 245
BULGARIA (Sofia)	+359 2 9154 409 / +359 887 435 325
CZECH REPUBLIC (Prague Praha)	+42 2 2491 9293 or +42 2 2491 5402
CROATIA (Zagreb)	+385 12 348 342
DENMARK (Copenhagen)	+45 35 31 54 04
FINLAND (Helsinki)	+358 9 471 977
FRANCE (Paris)	+33 1 40 05 48 48
GERMANY (Berlin)	+49 30 450 653565
GREECE (Athens Athinai)	+30 10 779 3777
HUNGARY (Budapest)	+36 80 20 11 99
ICELAND (Reykjavik)	+354 525 111, +354 543 2222
IRELAND (Dublin)	+353 1 8379964
ITALY (Rome)	+39 06 305 4343
LATVIA (Riga)	+371 704 2468
LITHUANIA (Vilnius)	+370 2 36 20 52, +370 2 36 20 92
NETHERLANDS (Bilthoven)	+31 30 274 88 88
NORWAY (Oslo)	+47 22 591300
POLAND (Gdansk)	+48 58 301 65 16 or +48 58 349 2831
PORTUGAL (Lisbon Lisboa)	808 250 143 (for use only in Portugal), +351 21 330 3284
ROMANIA (Bucharest)	+40 21 230 8000;
SLOVAKIA (Bratislava)	+421 2 54 77 4 166
SLOVENIA (Ljubljana)	+ 386 41 650 500
SPAIN (Barcelona)	+34 93 227 98 33 or +34 93 227 54 00 bleep 190
SWEDEN (Stockholm)	+46 8 33 12 31 (International) 112 (National)
UNITED KINGDOM (London)	0870 243 2241

The information and recommendations provided in this document are based on our current knowledge, information and experience at the date of its publication, and their purpose is to present prevention and safety measures in relation to this product. The information given is designed only as a guidance for safe handling, use, processing, storage, transport and disposal. All given information refer only to the product in the form it is supplied. It is the user's responsibility to satisfy itself that the product is suitable for the intended use.

Users are obliged to have their activities harmonized with national, regional and local regulations, which are subject to modifications, and may differ depending on location/state. Users are responsible for handling, storage and manipulation in accordance with effective laws and regulations as required to provide health and safety at work and environmental protection. Since the use of this information and the conditions of use are not within the control of HIP Petrohemija, it is the user's obligation to determine the conditions of safe use of the product.

This version supersedes and replaces all previous versions.