

Kuraray Europe GmbH
65795 Hattersheim am Main, Germany

Date printed 03.05.2018, Revision 25.01.2017

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

1.1 Product identifier

SEPTON™

*SEPTON™ 1000 Series:

SEPTON 1001;SEPTON 1020;

*SEPTON™ 2000 Series:

SEPTON 2002;SEPTON 2004;SEPTON 2005;SEPTON 2006; SEPTON 2007;
SEPTON 2104;SEPTON 2063;

*SEPTON™ 4000 Series:

SEPTON 4030;SEPTON 4032;SEPTON 4033; SEPTON 4033FFS;SEPTON 4044;
SEPTON 4044FFS; SEPTON 4055;SEPTON 4055FFS;SEPTON 4077;SEPTON 4099;

*SEPTON™ 8000 Series:

SEPTON 8004;SEPTON 8006;SEPTON 8007;SEPTON 8104; SEPTON 8076;
SEPTON 8006FFS;SEPTON 8105;SEPTON 8043;

IUPAC	<u>SEPTON™ 1000 /2000 Series:</u> Benzene,ethenyl-, polymer with 2-methyl-1,3-butadiene,hydrogenated <u>SEPTON™ 4000 Series:</u> Hydrogenated styrene isoprene butadiene block copolymer <u>SEPTON™ 8000 Series:</u> Hydrogenated styrene butadiene block copolymer
EINECS/ELINCS	<u>SEPTON™ 1000 /2000 Series:</u> Polymer <u>SEPTON™ 4000 Series:</u> Polymer <u>SEPTON™ 8000 Series:</u> Polymer
CAS	<u>SEPTON™ 1000 /2000 Series:</u> 68648-89-5 <u>SEPTON™ 4000 Series:</u> 132778-07-5 <u>SEPTON™ 8000 Series:</u> 66070-58-4

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

1.2.1 Relevant uses

Raw material for plastic industry

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Kuraray Europe GmbH
Philipp-Reis-Straße 4
65795 Hattersheim am Main, Germany / GERMANY
Phone +49 (0) 69-305-35855
Fax +49 (0) 69-305-35656
Homepage www.kuraray.de

Country of origin JAPAN / USA

Address enquiries to

Technical information marcel.gruendken@kuraray.com

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Company +44 20 35147487
Kuraray access code: 334674

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

No classification.

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2.2 Label elements

	The product does not require a hazard warning label in accordance with GHS/CLP-directives.
Hazard pictograms	none
Signal word	none
Hazard statements	none
Precautionary statements	none

2.3 Other hazards

Physico-chemical hazards	In the supplied form the product is not explosive at all ; however the build-up of fine dust can lead to a risk of dust explosions. Combustible.
Human health dangers	Heated materials cause burns on the skin.
Other hazards	Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a substance.

Range [%]	Substance
SEPTON™ 4000 Series	
> 99	Hydrogenated styrene isoprene butadiene block copolymer CAS: 132778-07-5, EINECS/ELINCS: polymer
SEPTON™ 8000 Series	
> 99	Hydrogenated styrene butadiene block copolymer CAS: 66070-58-4, EINECS/ELINCS: polymer
SEPTON™ 1000 / 2000 Series	
> 99	Ethenylbenzolpolymer mit 2-Methyl-1,3-butadien, hydriert CAS: 68648-89-5, EINECS/ELINCS: Polymer

Comment on component parts

No dangerous components.
All monomers in this product are included on the "European Inventory of Existing Commercial Chemical Substances - EINECS or ELINCS".
Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

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SECTION 4: First aid measures

4.1 Description of first aid measures

General information	not applicable
Inhalation	Remove the victim into fresh air and keep him calm. In the event of symptoms seek medical treatment.
Skin contact	Get medical advice. In case of burning: After contact with molten product cool quickly with cold water or sterile salt solution and protect with gauze. Do not pull solidified product from skin.
Eye contact	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
Ingestion	not applicable

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to the doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Foam. Water spray jet. Carbon dioxide. Dry powder.
Extinguishing media that must not be used	Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO).

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.
Collect contaminated firefighting water separately, must not be discharged into the drains.
Cool containers at risk with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
Avoid dust formation.
Use breathing apparatus if exposed to vapours/dust/aerosol.
High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Knock down dust with water spray jet.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Avoid raising dust.
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid the formation and deposition of dust.
Provide vacuuming if dust raised.

Dust can form an explosive mixture with air.
Keep away from all sources of ignition - Refrain from smoking.
Take precautionary measures against static discharges.

Do not eat, drink, smoke or take drugs at work.
Wash hands before breaks and after work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Do not store together with oxidizing agents.
Store in a dry place.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

not applicable

8.2 Exposure controls

Additional advice on system design

Ensure adequate ventilation on workstation.
Use suitable exhaust ventilation.
Pay attention to dust limit value (ACGHI-2011: 10 mg/m³ particle inhalable; 3 mg/m³ particle respirable).

Eye protection

Tightly fitting goggles (EN 166:2001).

Hand protection

The details concerned are recommendations. Please contact the glove supplier for further information.

In full contact:

Gloves (heat-resistant).

0,5 mm; Butyl rubber, >240 min (EN 374-1/-2/-3).

In splash contact:

0,5 mm; Butyl rubber, >240 min (EN 374-1/-2/-3).

Skin protection

Long-sleeved work clothes.

Other

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.

Avoid contact of molten material with skin.

Do not inhale smokes formed during heat treatment.

Do not inhale dust.

Respiratory protection

Breathing apparatus in the event of high concentrations.

Short term: filter apparatus, filter P1. (DIN EN 143)

Thermal hazards

No information available.

Delimitation and monitoring of the environmental exposition

Comply with applicable environmental regulations limiting discharge to air, water and soil.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	solid pellets powder
Color	white transparent
Odor	odourless
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	Not highly flammable.
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not applicable
Density [g/ml]	0,88 - 0,98 (20 °C / 68,0 °F) See product information.
Bulk density [kg/m³]	No information available.
Solubility in water	insoluble
Partition coefficient [n-octanol/water]	No information available.
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	not applicable
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

If product is heated above decomposition temperature toxic vapours may be released.

10.4 Conditions to avoid

See SECTION 7
Water.

10.5 Incompatible materials

No information available.

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10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
inhalative, Based on the available information, the classification criteria are not fulfilled.:
dermal, Based on the available information, the classification criteria are not fulfilled.:
oral, Based on the available information, the classification criteria are not fulfilled.:
Substance
Pentaerythritetrakis[3-(3,5di-tert-butyl-4-hydroxyphenyl)propionate], CAS: 6683-19-8
LD50, dermal, Rat: > 2000 mg/kg/ 14d.
LD50, oral, Rat: > 2000 mg/kg bw.
Hydrogenated styrene isoprene butadiene block copolymer, CAS: 132778-07-5
LD50, oral, > 2000 mg/kg.
LD50, oral, > 2000 mg/kg.
LD50, oral, > 2000 mg/kg.

Serious eye damage/irritation	Based on the available information, the classification criteria are not fulfilled.
Skin corrosion/irritation	Based on the available information, the classification criteria are not fulfilled.
Respiratory or skin sensitisation	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — repeated exposure	Based on the available information, the classification criteria are not fulfilled.
Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Based on the available information, the classification criteria are not fulfilled.
Carcinogenicity	Based on the available information, the classification criteria are not fulfilled.
Aspiration hazard	Based on the available information, the classification criteria are not fulfilled.
General remarks	

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information

12.1 Toxicity

Product
Based on the available information, the classification criteria are not fulfilled.:
Substance
Pentaerythritetrakis[3-(3,5di-tert-butyl-4-hydroxyphenyl)propionate], CAS: 6683-19-8
LC50, (96h), Brachidanio rerio: > 100 mg/l OECD 203.
EC50, (72h), Scenedesmus subspicatus: > 100 mg/l.
EC50, (24h), Daphnia magna: > 86 mg/l calculated.

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12.2 Persistence and degradability

Behaviour in environment compartments	not applicable
Behaviour in sewage plant	Can be separated out mechanically in purification plants.
Biological degradability	not applicable

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

The product is insoluble in water.
Ecological data of complete product are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

For recycling, consult manufacturer.
Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended) 070299

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150101
150102
150104

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

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14.2 UN proper shipping name

Transport by land according to ADR/RID	NO DANGEROUS GOODS
Inland navigation (ADN)	NO DANGEROUS GOODS
Marine transport in accordance with IMDG	NOT CLASSIFIED AS "DANGEROUS GOODS"
Air transport in accordance with IATA	NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.4 Packing group

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID	no
Inland navigation (ADN)	no
Marine transport in accordance with IMDG	no
Air transport in accordance with IATA	no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

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SECTION 15: Regulatory information

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

EEC-REGULATIONS	1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2017).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
- Observe employment restrictions for people	no
- VOC (2010/75/CE)	not applicable

15.2 Chemical safety assessment

A chemical safety assessment is not yet available for this substance.

SECTION 16: Other information

16.1 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
TLV@/TWA = Threshold limit value – time-weighted average
TLV@STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.2 Other information

Customs Tariff	not determined
Classification procedure	
Modified position	none