





## Safety Data Sheet

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**BAYBLEND FR (TPP)**

### 6. Accidental release measures

granules: slip hazard! Take up mechanically; avoid dust formation.

melt: If there is a risk of exothermal decomposition due to overheating (increase in temperature, generation of smoke or fumes) cool the melt off in a water bath.

### \*7. Handling and storage

Under recommended processing conditions small amounts of residues of monomers and residual solvent may be emitted. Provided good ventilation and/or local exhaust systems are available, the limit values cited under pt. 8 should not be exceeded.

Dust must be removed by effective exhaust ventilation.

VCI storage class: 11

(VCI = German Association of the Chemical Industry)

### \*8. Exposure controls/Personal protection

The regulations for the substances listed below must be observed when processing this product, particularly if processing takes place at elevated temperatures. In our experience the provision of effective fresh-air and exhaust ventilation equipment at the points where vapors may be generated will ensure compliance with the tolerance limits quoted below.

Substance	CAS-No.	R-phrases 1)	Classification 2)	acc. to
acrylonitrile	107-13-1	R45-23/24/25-37/38	C2	EU
butadiene	106-99-0	R45-46	C1, M2	EU
styrene	100-42-5	R20-36/38	--	--
vinyl cyclohexene	100-40-3	--	C3, Rf3	TRGS 905
ethylbenzene	100-41-4	R20	--	--
phenol	108-95-2	R23/24/25-34-48/20/21/22-68	M3	EU
<del>4-tert-butylphenol</del>	<del>98-54-4</del>	<del>R36/37/38</del>	--	--

(to be continued)

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**\*8. Exposure controls/Personal protection (Continuation)**

- 1) Health R-Phrases (Text in Chapter 16)
  - 2) C-carcinogenic, M-mutagenic, RF-Impairment of reproductive capacity (fertility), RE-embryotoxic (impairs embryonic development)
- TRGS: German Technical Regulations on Dangerous Substances  
 EU: Council Directive 67/548/EEC, 28th ATP

Occupational Exposure Limits (mg/m<sup>3</sup>), Time Weighted Average:

	EU	U. Kingdom	R. of Ireland	ACGIH
acrylonitrile	-	4,4	4,5	4,5
butadiene	-	22	2,2	4,4
styrene	-	430	85	85
vinyl cyclohexene	-	-	0,4	0,45
ethylbenzene	442	441	435	435
4-tert-butylphenol	-	-	-	-
phenol	7,8	8	7,8	19
triphenylphosphate	-	3	3	3
fine dust 1)				
respirable	-	5	4	3
inhalable	-	10	10	10

1) in consequence with mechanical treatment, e.g. grinding, occurring.

ACGIH: American Conference of Governmental Industrial Hygienists

EU: Commission Directive 91/322/EEC and amendment 2000/39/EC

Respiratory protection: In case of dust formation use respiratory equipment with filter type particle filter P1 according to DIN EN 143.

Hand protection: Protective gloves of leather, contaminated or damaged gloves should be replaced.

~~Eye protection: Protective goggles with side shield or tightly fitting protective goggles~~

Body protection: Skin covering working clothes; wear dust-proof overalls if large quantities of dust are generated.

Protection and hygienic measures:  
 Avoid inhaling vapours. Avoid inhaling dust.

Grease skin. At the end of work, wash hands and face.  
 When using do not eat, drink or smoke.

**9. Physical and chemical properties**

tested in accordance with

- Form: granules
- Colour: light resp. pigmented
- Odour: nearly odourless
- Melting range: approx. 200 °C or higher
- Density: approx. 1,2 g/cm<sup>3</sup> at 20 °C
- Bulk density: approx. 600 kg/m<sup>3</sup>

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**9. Physical and chemical properties** (Continuation) tested in accordance with

Vapour pressure:	not applicable
Viscosity:	not applicable
Solubility in water:	insoluble
pH value:	not applicable
Flash-ignition temperature:	> 320 °C
Self-ignition temperature:	> 390 °C
Explosive limits:	not applicable

**10. Stability and reactivity**

Thermal decomposition:  
Decomposition begins at approx. 300 °C.

Hazardous decomposition products:

Caused by smouldering and incomplete combustion toxic fumes mainly consisting of CO and CO<sub>2</sub> may be developed. Formation of traces of acrylonitrile, styrene, aliphatic and aromatic hydrocarbons, aldehydes, acids, phenol and phenol-derivatives may occur.

Small amounts of hydrogen halides and halogenated hydrocarbons developed by thermal decomposition of the flame retardant are negligible.

Hazardous reactions:

If overheated, the melt may undergo exothermal decomposition in the air (increase in temperature, generation of smoke or fumes).

**11. Toxicological information**

Careful treatment ensures that only traces (in the ppm range) of acrylonitrile and butadiene are present in Bayblend.

Under recommended processing conditions small amounts of phenol, substituted phenols, triphenylphosphate, acrylonitrile and styrene may be emitted.

**12. Ecological information**

The product is practically insoluble in water. In view of its consistency and insolubility in water, no ecological problems are to be expected if the product is properly handled. This product is not readily biodegradable.

**13. Disposal considerations**

The product is suitable for mechanical recycling. After appropriate treatment it can be remelted and reprocessed into new moulded articles.

Mechanical recycling is only possible if the material has been selectively retrieved and carefully segregated according to type.

May only be transported to suitable incinerator with reduced non-air emissions observing local official regulations.

May be disposed of together with household refuse if local official regulations are observed.

European Waste Catalogue (EWC) code: 070213



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### 14. Transport information

GGVSE: -- UN: NODG PG: --

RID/ADR: -- UN: NODG PG: --

ADNR: -- UN: NODG PG: --

GGVSee/IMDG Code: -- UN: NODG PG: -- MPO: --

ICAO-TI/IATA-DGR: -- UN: NRES PG: --

Declaration for land shipment: --

Declaration for sea shipment: --

Declaration for shipment by air: --

Other information:

Not dangerous cargo. Keep dry.

### \*15. Regulatory information

No labeling necessary according to EC Directives 67/548/EEC or 1999/45/EC and their valid adaptations and derived national regulations.

Water pollution class (WGK: Not hazardous to water (VwVwS appendix 1)  
(VwVwS = German Regulation on Substances Hazardous to Water)

Swiss law of poison: class of poison free; BAG-T-No. 614100.

### \*16. Other information

This Safety Data Sheet is valid for the following types of BAYBLEND:

FR 86, FR 86 BBS911

FR 90, FR 90 BBS075, FR 90 BBS909, FR 90 BBS911

FR 110, FR 110 BBS911

R-FR 390

R-FR 610

LP BB 444-005

LP BB 610-001

Bayblend Sek-Ware

Bayblend Sek-WareOB090P

~~The following R-Phrases refer to substances that are either contained in this product or may be generated or released during processing, and do not necessarily correspond to the product labeling. Information on labeling the product put into circulation in accordance with EC Directives is given in Chapter 15.~~

(to be continued)

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**\*16. Other information** (Continuation)

Text of all R phrases referred to in sections 2, 3, 8 or 15:

R 20: Harmful by inhalation.

R 23/24/25: Also toxic by inhalation, in contact with skin and if swallowed.

R 34: Causes burns.

R 36/38: Irritating to eyes and skin.

R 36/37/38: Irritating to eyes, respiratory system and skin.

R 37/38: Irritating to respiratory system and skin.

R 45: May cause cancer.

R 46: May cause heritable genetic damage.

R 48/20/21/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation in contact with skin and if swallowed.

R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 68: Possible risks of irreversible effects.

All chapters in the SDS which have been changed since last edition are marked with an asterisk in front of the Chapter number.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance.