BAYMOD PU

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

1.1 Product identifier

BAYMOD PU

Material number: 00402567

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

Use:
Synthetic additive

1.3 Details of the supplier of the safety data sheet

Covestro Deutschland AG
COVDEAG-CEO-GI-GQ-GPS&RA-GPS&I
51365 Leverkusen

Tel.: +49 214 6009 8134
Email: ProductSafetyEMLA@covestro.com

1.4 Emergency telephone number

+1-703-527-3887 (Chemtrec)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

No classification in accordance with the Regulation (EC) No. 1272/2008.

2.2 Label elements

No labeling necessary according to the Regulation (EC) No. 1272/2008.

2.3 Other hazards

Risk of dust explosions.

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 7 %

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 7 %

This substance/mixture 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.

SECTION 3: Composition/information on ingredients

Type of product: Mixture

3.2 Mixtures

Aliphatic polyester urethane

No dangerous ingredients according to REACH-Regulation (EC) No. 1907/2006.

Candidate List of Substances of Very High Concern for Authorisation
This product contains no substances of very high concern in concentrations where an information obligation applies (REACH Regulation (EC) No. 1907/2006, Article 59).

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: Remove all contaminated clothing.

If inhaled: If high concentrations of the dusts have been inhaled, the person should be taken into the fresh air and kept still and warm. If there is difficulty in breathing, medical attention should be obtained.

In case of skin contact: In case of skin contact wash affected areas thoroughly with soap and plenty of water. Consult a doctor in the event of a skin reaction.

In case of eye contact: Hold the eyes open and rinse with preferably lukewarm water for a sufficiently long period of time (at least 10 minutes). Contact an ophthalmologist.

If swallowed: DO NOT induce the patient to vomit, medical advice is required.

4.2 Most important symptoms and effects, both acute and delayed

Notes to physician: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Therapeutic measures: No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide (CO2), Foam, extinguishing powder, in cases of larger fires, water spray should be used.

Unsuitable extinguishing media: High volume water jet

5.2 Special hazards arising from the substance or mixture

Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.

5.3 Advice for fire-fighters

Firemen must wear self-contained breathing apparatus.

Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Put on protective equipment (see section 8). Ensure adequate ventilation/exhaust extraction. Keep unauthorized persons away. Prevent formation of explosive dust-air mixtures.

6.2 Environment related measures

Do not allow to escape into waterways, wastewater or soil.

6.3 Methods and material for containment and cleaning up

Avoid formation and deposition of dust. Use mechanical handling equipment. Fill into labeled, sealable containers.

6.4 Reference to other sections

For further disposal measures see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provide sufficient air exchange and/or exhaust in work rooms. Take measures to prevent dust formation; remove any dust with air extractors where it is formed. Observe the usual precautionary measures required for chemicals with dust-explosive properties.

Prevent formation of explosive dust-air mixtures. Take measures to prevent the build up of electrostatic charge.

Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at the end of workday. Keep working clothes separately. Change contaminated clothing.

7.2 Conditions for safe storage, including any incompatibilities

Keep container dry and tightly closed in a cool and well ventilated place. Further information on the storage conditions which must be observed to preserve quality can be found in our product information sheet.

Storage class (TRGS 510) : 11: Combustible Solids

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Substance	CAS-No.	Basis	Type	Value	Ceiling Limit Value	Remarks
	9002-86-2	TRGS 900	STEL CL			Category II: substances with a resorptive effect.
	9002-86-2	TRGS 900				Listed.
	9002-86-2	TRGS 900		1,25 mg/m3		
	9002-86-2	TRGS 900				Listed.
	9002-86-2	TRGS 900		10 mg/m3	2	

8.2 Exposure controls

Respiratory protection
If product forms dust wear dust-protection mask.

Hand protection
Protective gloves are recommended.
Nitrile rubber - NBR (>= 0.35 mm)
Breakthrough time not tested; dispose of immediately after contamination.

Conditionally suitable materials for protective gloves; EN 374:

Eye protection
Wear eye/face protection.

Skin and body protection
Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	solid at 20 °C at 1.013 hPa	
Appearance:	solid, powder	
Colour:	colourless	
Odour:	odourless	
Odour Threshold:	not established	
pH:	not applicable	
Softening point:	ca. 170 °C	
Boiling point/boiling range:	not established	
Flash point:	> 175 °C	DIN EN ISO 2592
Evaporation rate:	not established	
Flammability:	not established	
Burning number:	not established	
Upper/lower flammability or explosive limits:	not established	
Vapour pressure:	not established	
Relative vapour density:	not established	
Density:	ca. 1,14 g/cm³ at 23 °C	
Miscibility with water:	not established	
Water solubility:	at 15 °C insoluble	
Surface tension:	not established	
Partition coefficient (n−octanol/water):	not established	
Auto-ignition temperature:	not established	
Ignition temperature:	> 250 °C	DIN 51794
Decomposition temperature:	not established	
Heat of combustion:	not established	
Viscosity, kinematic:	not established	
Particle characteristics		
Particle size:	not established	

9.2 Other information

The indicated values do not necessarily correspond to the product specification. Please refer to the technical information sheet for specification data.

Explosive properties:	not established
Dust explosion class:	capable of causing a dust explosion (modified Hartmann tube)
Oxidising properties:	not established

SECTION 10: Stability and reactivity

10.1 Reactivity

This information is not available.

10.2 Chemical stability

No thermal decomposition when stored and handled correctly.

10.3 Possibility of hazardous reactions

The product can cause dust explosions.

10.4 Conditions to avoid

This information is not available.

10.5 Incompatible materials

This information is not available.

10.6 Hazardous decomposition products

No hazardous decomposition products when stored and handled correctly.

SECTION 11: Toxicological information

Toxicological studies on the product are not yet available.

Please find below the toxicological data available to us for the components.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity, oral
Polyurethane resin
LD50 rat: > 5.000 mg/kg
Method: OECD Test Guideline 423
Studies of a comparable product.

Acute toxicity, dermal
Polyurethane resin
LD50 rat: > 2.000 mg/kg
Studies of a comparable product.

Acute toxicity, inhalation
Polyurethane resin
Assessment: The substance or mixture has no acute inhalation toxicity
Studies of a comparable product.

Primary skin irritation
Polyurethane resin
Species: rabbit
Result: non-irritant
Classification: No skin irritation
Method: OECD Test Guideline 404
Studies of a comparable product.

Primary mucosae irritation
Polyurethane resin
Species: rabbit
Result: non-irritant
Classification: No eye irritation
Studies of a comparable product.

Sensitisation
Polyurethane resin
Skin sensitisation according to Magnusson/Kligmann (maximizing test):
Species: Guinea pig
Result: negative
Classification: Does not cause skin sensitization.
Method: OECD Test Guideline 406
Studies of a comparable product.

Subacute, subchronic and prolonged toxicity
Polyurethane resin
No data available.

Carcinogenicity
Polyurethane resin
No data available.

Reproductive toxicity/Fertility
Polyurethane resin
No data available.

Reproductive toxicity/Developmental Toxicity/Teratogenicity
Polyurethane resin
No data available.

Genotoxicity in vitro
Polyurethane resin
Test type: Salmonella/microsome test (Ames test)
Result: No indication of mutagenic effects.
Method: OECD Test Guideline 471
Studies of a comparable product.

Genotoxicity in vivo
Polyurethane resin
No data available.

STOT evaluation – one-time exposure
Polyurethane resin
Based on available data, the classification criteria are not met.

STOT evaluation – repeated exposure
Polyurethane resin
no data available

Aspiration toxicity

Polyurethane resin
No data available.

CMR Assessment
Polyurethane resin
Carcinogenicity: No data available.
Mutagenicity: Based on available data, the classification criteria are not met.
Teratogenicity: No data available.
Reproductive toxicity/Fertility: No data available.

11.2 Information on other hazards

Endocrine disrupting properties
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

Ecotoxicological studies of the product are not available.

Do not allow to escape into waterways, wastewater or soil.

Please find below the ecotoxicological data available to us for the components.

12.1 Toxicity

Acute Fish toxicity
Polyurethane resin
EC50 > 100 mg/l
Species: Danio rerio (zebra fish)
Exposure duration: 96 h
Method: Tested according to Directive 92/69/EEC.
Studies of a comparable product.

Chronic Fish toxicity
Polyurethane resin
No data available.

Acute toxicity for daphnia
Polyurethane resin
EC50 > 100 mg/l
Species: Daphnia magna (Water flea)
Exposure duration: 48 h
Method: Tested according to Directive 92/69/EEC.
Studies of a comparable product.

Chronic toxicity to daphnia
Polyurethane resin
No data available.

Acute toxicity for algae
Polyurethane resin
endpoint: Growth inhibition
Species: scenedesmus subspicatus
Exposure duration: 72 h
Method: OECD Test Guideline 201
No toxic effects with saturated solution.
Studies of a comparable product.

Acute bacterial toxicity
Polyurethane resin
EC50 > 10.000 mg/l
Test type: Respiration inhibition
Species: activated sludge
Exposure duration: 3 h
Method: OECD Test Guideline 209
Studies of a comparable product.

12.2 Persistence and degradability

Biodegradability
Polyurethane resin
Biodegradation: 1 %, 28 d, i.e. not readily degradable
Method: Tested according to Directive 92/69/EEC.
Studies of a comparable product.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This substance/mixture 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.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available.

SECTION 13: Disposal considerations

Dispose in accordance with applicable international, national and local laws, ordinances and statutes.

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

13.1 Waste treatment methods

After containers have been emptied as thoroughly as possible (e.g. by pouring, scraping or draining until "drip-dry"), they can be sent to an appropriate collection point set up within the framework of the existing take-back scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations.

No disposal into waste water.

SECTION 14: Transport information

ADR/RID

14.1 UN number or ID number	:	Not dangerous goods
14.2 UN proper shipping name	:	Not dangerous goods
14.3 Transport hazard class(es)	:	Not dangerous goods
14.4 Packing group	:	Not dangerous goods
14.5 Environmental hazards	:	Not dangerous goods

ADN

14.1 UN number or ID number	:	Not dangerous goods
14.2 UN proper shipping name	:	Not dangerous goods
14.3 Transport hazard class(es)	:	Not dangerous goods
14.4 Packing group	:	Not dangerous goods
14.5 Environmental hazards	:	Not dangerous goods

Dangerous goods classification for inland waterways tanker by request only.

IATA

14.1 UN number or ID number	:	Not dangerous goods
14.2 UN proper shipping name	:	Not dangerous goods
14.3 Transport hazard class(es)	:	Not dangerous goods
14.4 Packing group	:	Not dangerous goods
14.5 Environmental hazards	:	Not dangerous goods

IMDG

14.1 UN number or ID number	:	Not dangerous goods
14.2 UN proper shipping name	:	Not dangerous goods
14.3 Transport hazard class(es)	:	Not dangerous goods
14.4 Packing group	:	Not dangerous goods
14.5 Marine pollutant	:	Not dangerous goods

14.6 Special precautions for user

See section 6 - 8.

Additional information : Not dangerous cargo. Keep separated from foodstuffs.

14.7 Maritime transport in bulk according to IMO instruments

Product is not transported by us in bulk.

SECTION 15: Regulatory information

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

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances.

not applicable

TA Luft List (Germany)
Type: Total dust
Fraction of other substances: 92,9 %

Type: Inorganic substances in powdered form
portion Class 3: < 0,01 %

Type: Organic Substances
Fraction of other substances: 7 %

Water contaminating class (Germany)
1 slightly water endangering
Classification according to AwSV, Annex 1 (5.2)

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance / mixture resp. its components.

SECTION 16: Other information

Abbreviations and acronyms

ADN	Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation intérieure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials (US)
ATE	Acute Toxic Estimate
AwSv	Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen
BCF	Bioconcentration Factor
CAS	Chemical Abstract Service
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
CMR	Cancerogenic Mutagenic Reprotoxic
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
EC…	Effect Concentration ... %
EWC	European Waste Catalogue
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LOAEL	Lowest Observable Adverse Effect Level
LC…	Lethal Concentration, ...%
LD…	Lethal Dose, ...%
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEL	No Observed Adverse Effect Level
NOEL/NOEC	No Observed Effect Level/Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire de marchandises Dangereuses
STOT	Specific Target Organ Toxicity
TRGS	Technische Regeln für Gefahrstoffe
vPvB	very Persistent, very Bioaccumulative
WGK	Wassergefährdungsklasse

Further information
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.