



We create chemistry

Safety Data Sheet

Baxxodur™ PC 136

Revision date : 2022/05/09
Version: 7.0

Page: 1/12
(30355294/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

Baxxodur™ PC 136

Recommended use of the chemical and restriction on use

Recommended use*: Chemical used in synthesis and/or formulation of industrial products

Recommended use*: for industrial use only

Unsuitable for use: Not intended for sale to or use by the general public.

Chemical

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Chemical family:

No applicable information available.

Synonyms:

MODIFIED IPDA

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Acute Tox.

4 (oral)

Acute toxicity

Eye Dam./Irrit.

2B

Serious eye damage/eye irritation

Skin Sens.

1

Skin sensitization

Safety Data Sheet

Baxxodur™ PC 136

Revision date : 2022/05/09

Page: 2/12

Version: 7.0

(30355294/SDS_GEN_US/EN)

STOT RE	2 (by inhalation)	Specific target organ toxicity — repeated exposure
Aquatic Acute	3	Hazardous to the aquatic environment - acute
Aquatic Chronic	3	Hazardous to the aquatic environment - chronic

Label elements

Pictogram:



Signal Word:

Warning

Hazard Statement:

H320	Causes eye irritation.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs (Peripheral nervous system) through prolonged or repeated exposure (inhalation).
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves.
P260	Do not breathe dust/gas/mist/vapours.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.
P270	Do not eat, drink or smoke when using this product.
P264	Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical advice/attention if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth
P362 + P364	Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Disposal):

P501	Dispose of contents/container in accordance with local regulations.
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Hazards not otherwise classified

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

dimethylamine

CAS Number: 124-40-3

Safety Data Sheet

Baxxodur™ PC 136

Revision date : 2022/05/09
Version: 7.0

Page: 3/12
(30355294/SDS_GEN_US/EN)

Content (W/W): ≥ 0.0 - $< 0.5\%$
Synonym: Dimethylamine

3-dimethylaminopropiononitrile
CAS Number: 1738-25-6
Content (W/W): ≥ 0.0 - $< 2.0\%$
Synonym: 3-Dimethylaminopropionsäurenitril

Propanenitrile, 3-[[[3-[(2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]-
CAS Number: 93940-97-7
Content (W/W): ≥ 95.0 - $< 100.0\%$
Synonym: No data available.

4. First-Aid Measures

Description of first aid measures

General advice:

Remove contaminated clothing. Keep patient calm, remove to fresh air, seek medical attention.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

If on skin:

Immediately wash thoroughly with soap and water, seek medical attention.

If in eyes:

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Seek medical attention.

If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Information on: Propanenitrile, 3-[[[3-[(2-cyanoethyl)amino]methyl]-3,5,5-trimethylcyclohexyl]amino]-
Symptoms: Overexposure may cause: Eye irritation, skin irritation, erythema, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps

Hazards: No applicable information available.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

Safety Data Sheet

Baxxodur™ PC 136

Revision date : 2022/05/09

Version: 7.0

Page: 4/12

(30355294/SDS_GEN_US/EN)

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
dry powder, foam, water spray, carbon dioxide

Unsuitable extinguishing media for safety reasons:
No data available.

Special hazards arising from the substance or mixture

Hazards during fire-fighting:
hydrogen cyanide, acrylonitrile,
The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

Impact Sensitivity:

Remarks: Based on the chemical structure there is no shock-sensitivity.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Breathing protection required. Avoid contact with the skin, eyes and clothing.

Environmental precautions

Do not empty into drains.

Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Collect waste in suitable containers, which can be labeled and sealed. Incinerate or take to a special waste disposal site in accordance with local authority regulations.

7. Handling and Storage

Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Refill and handle product only in closed system. Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

The product is combustible. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Conditions for safe storage, including any incompatibilities

Safety Data Sheet

Baxxodur™ PC 136

Revision date : 2022/05/09

Version: 7.0

Page: 5/12

(30355294/SDS_GEN_US/EN)

No applicable information available.

Suitable materials for containers: glass, Carbon steel (Iron), Stainless steel 1.0506, Stainless steel 1.4571, Stainless steel 1.4402 (V4A), Stainless steel 1.4404, High density polyethylene (HDPE)

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place. Avoid direct sunlight.

Storage stability:

Storage temperature: < 40 °C

Storage duration: 36 Months

Store at ambient temperature.

From the data on storage duration in this safety data sheet no agreed statement regarding the warrantee of application properties can be deduced.

Protect from temperatures below: 10 °C

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

8. Exposure Controls/Personal Protection

No substance specific occupational exposure limits known.

Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour respirator.

Observe OSHA regulations for respirator use (29 CFR 1910.134).

Hand protection:

Chemical resistant protective gloves

Eye protection:

Tightly fitting safety goggles (chemical goggles).

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin, eyes and clothing. Do not breathe vapour/spray.

9. Physical and Chemical Properties

Form:	liquid	
Odour:	faint odour, amine-like	
Odour threshold:	Not determined due to potential health hazard by inhalation.	
Colour:	colourless to slightly yellow	
pH value:	11 (32 g/l, 20 °C)	(OECD Guideline 105)

Safety Data Sheet

Baxxodur™ PC 136

Revision date : 2022/05/09

Page: 6/12

Version: 7.0

(30355294/SDS_GEN_US/EN)

glass transition temperature:	-52 °C (1,013 hPa)	(OECD Guideline 102)
Boiling point:	> 200 °C (1,013 hPa)	
Boiling range:	No data available.	
Sublimation point:	No applicable information available.	
Flash point:	158 °C	(ISO 2719, closed cup)
Flammability:	hardly combustible	(derived from flash point)
Lower explosion limit:	For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Autoignition:	363 °C	(DIN EN 14522)
SADT:	> 75 °C Heat accumulation / Dewar 500 ml (SADT, UN-Test H.4, 28.4.4)	
Vapour pressure:	0.0000022 hPa (20 °C) dynamic 0.0000042 hPa (25 °C) dynamic 0.000083 hPa (50 °C) dynamic	(OECD Guideline 104) (OECD Guideline 104) (OECD Guideline 104)
Density:	0.993 g/cm3 (20 °C) 0.970 g/cm3 (55 °C) 0.953 g/cm3 (80 °C)	(ISO 2811-3) (ISO 2811-3) (ISO 2811-3)
Relative density:	0.9927 (20 °C)	(OECD Guideline 109)
Vapour density:	No applicable information available.	
Partitioning coefficient n-octanol/water (log Pow):	2 (23 °C) 1.8 - 1.9 (23 °C)	(OECD Guideline 117) (OECD Guideline 117)
Self-ignition temperature:	Based on its structural properties the product is not classified as self-igniting.	
Thermal decomposition:	580 kJ/kg (DSC (DIN 51007)) Prolonged thermal loading can result in products of degradation being given off.	
Viscosity, dynamic:	15,900 mPa.s (0 °C) 1,410 mPa.s (20 °C) 84.4 mPa.s (55 °C) 23.4 mPa.s (80 °C)	(ASTM D 7042) (ASTM D 7042) (ASTM D 7042) (ASTM D 7042)
Viscosity, kinematic:	15,800 mm2/s (0 °C)	(ASTM D 7042)

Safety Data Sheet

Baxxodur™ PC 136

Revision date : 2022/05/09

Version: 7.0

Page: 7/12

(30355294/SDS_GEN_US/EN)

	1,420 mm ² /s (20 °C)	(ASTM D 7042)
	87.1 mm ² /s (55 °C)	(ASTM D 7042)
	24.5 mm ² /s (80 °C)	(ASTM D 7042)
Particle size:	The substance / product is marketed or used in a non solid or granular form.	
Solubility in water:	32 g/l (20 °C)	
Miscibility with water:	partially (e.g. >10% <90%)	
Solubility (quantitative):	No applicable information available.	
Solubility (qualitative):	No applicable information available.	
Molar mass:	No applicable information available.	
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	

10. Stability and Reactivity

Reactivity

Corrosion to metals:
Corrosive effects to metal are not anticipated.

Oxidizing properties:
Based on its structural properties the product is not classified as oxidizing.

Formation of flammable gases:	Remarks:	Forms no flammable gases in the presence of water.
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Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is stable if stored and handled as prescribed/indicated.
Reacts with strong acids. Evolution of heat under influence of acids. Decomposes upon heating and/or on contact with acids.

Conditions to avoid

Avoid heat. Avoid direct sunlight.

Incompatible materials

acids

Hazardous decomposition products

Decomposition products:
Possible decomposition products: hydrogen cyanide, acrylonitrile

Thermal decomposition:
(DSC (DIN 51007))
Prolonged thermal loading can result in products of degradation being given off.

Safety Data Sheet

Baxxodur™ PC 136

Revision date : 2022/05/09

Version: 7.0

Page: 8/12

(30355294/SDS_GEN_US/EN)

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact.

Oral

Type of value: LD50

Species: rat (female)

Value: > 500 - < 2,000 mg/kg (OECD Guideline 423)

The substance was tested in olive oil.

Inhalation

No applicable information available.

Dermal

Type of value: LD50

Species: rat (male/female)

Value: > 2,000 mg/kg (OECD Guideline 402)

Assessment other acute effects

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Irritation / corrosion

Assessment of irritating effects: Not irritating to the skin. May cause slight irritation to the eyes.

Skin

Species: rabbit

Result: non-irritant

Method: OECD Guideline 404

Eye

Species: rabbit

Result: Slightly irritating.

Method: OECD Guideline 405

Sensitization

Assessment of sensitization: Caused skin sensitization in animal studies.

Mouse Local Lymph Node Assay (LLNA)

Species: mouse

Result: sensitizing

Method: OECD Guideline 429

Aspiration Hazard

No aspiration hazard expected.

Safety Data Sheet

Baxxodur™ PC 136

Revision date : 2022/05/09

Version: 7.0

Page: 9/12

(30355294/SDS_GEN_US/EN)

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Repeated exposure may affect certain organs. Causes mortality through prolonged or repeated exposure. On the basis of currently available information, a final assessment is not possible.

Genetic toxicity

Assessment of mutagenicity: The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in bacteria.

Carcinogenicity

Assessment of carcinogenicity: No data available. Under certain conditions the substance can form nitrosamines. Nitrosamines are carcinogenic in animal studies.

Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect. The results were determined in a Screening test (OECD 421/422).

Teratogenicity

Assessment of teratogenicity: Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals. The results were determined in a Screening test (OECD 421/422).

Information on: 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Assessment of teratogenicity: Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals. Mortality observed in rabbits following oral gavage exposure to this corrosive substance.

Other Information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish

LC50 (96 h) > 120 mg/l, Brachydanio rerio (OECD Guideline 203, semistatic)

Aquatic invertebrates

EC50 (48 h) 51.9 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

The statement of the toxic effect relates to the analytically determined concentration.

Aquatic plants

EC50 (72 h) > 100 mg/l (growth rate), Desmodesmus subspicatus (OECD Guideline 201, static)

Nominal values (confirmed by concentration control analytics)

EC10 (72 h) 37 mg/l (growth rate), Desmodesmus subspicatus (OECD Guideline 201, static)

Nominal values (confirmed by concentration control analytics)

Safety Data Sheet

Baxxodur™ PC 136

Revision date : 2022/05/09
Version: 7.0

Page: 10/12
(30355294/SDS_GEN_US/EN)

Chronic toxicity to fish

No data available.

Chronic toxicity to aquatic invertebrates

No observed effect concentration (21 d) 3.5 mg/l, Daphnia magna (OECD Guideline 211, semistatic)
The details of the toxic effect relate to the nominal concentration.

Assessment of terrestrial toxicity

No data available.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

OECD Guideline 209 aerobic
activated sludge, domestic/EC20 (180 min): approx. 450 mg/l
Nominal concentration.

Persistence and degradability

Assessment biodegradation and elimination (H₂O)

Not readily biodegradable (by OECD criteria).

Elimination information

< 10 % BOD of the ThOD (28 d) (OECD 301F; ISO 9408; 92/69/EEC, C.4-D) (aerobic, activated sludge, domestic)

Assessment of stability in water

According to structural properties, hydrolysis is not expected/probable.

Information on Stability in Water (Hydrolysis)

According to structural properties, hydrolysis is not expected/probable.

Bioaccumulative potential

Assessment bioaccumulation potential

No significant accumulation in organisms is expected as a result of the distribution coefficient of n-octanol/water (log Pow).

Bioaccumulation potential

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Mobility in soil

Assessment transport between environmental compartments

The substance will not evaporate into the atmosphere from the water surface.
Adsorption to solid soil phase is possible.

Additional information

Other ecotoxicological advice:

Do not release untreated into natural waters.

Safety Data Sheet

Baxxodur™ PC 136

Revision date : 2022/05/09
Version: 7.0

Page: 11/12
(30355294/SDS_GEN_US/EN)

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations. Do not discharge into waterways or sewer systems without proper authorization.

Container disposal:

Dispose of container and any rinsate in an environmentally safe manner. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. WARNING: Empty containers may still contain hazardous residue.

14. Transport Information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed
TSCA § 5 commenced PMN

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
1000 LBS	124-40-3	dimethylamine
100 LBS	107-13-1	acrylonitrile

State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
NJ	1738-25-6	3-dimethylaminopropionitrile

Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

WARNING: This product can expose you to chemicals including ACRYLONITRILE, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

Safety Data Sheet

Baxxodur™ PC 136

Revision date : 2022/05/09

Version: 7.0

Page: 12/12

(30355294/SDS_GEN_US/EN)

NFPA Hazard codes:

Health: 2 Fire: 1 Reactivity: 0 Special:

Assessment of the hazard classes according to UN GHS criteria (most recent version):

Aquatic Acute	3	Hazardous to the aquatic environment - acute
Acute Tox.	4 (oral)	Acute toxicity
Eye Dam./Irrit.	2B	Serious eye damage/eye irritation
Skin Sens.	1	Skin sensitization

16. Other Information

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2022/05/09

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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