

# Safety Data Sheet

## Baxxodur® EC 201

Revision date : 2012/05/18

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Version: 1.0

(30346099/SDS\_GEN\_US/EN)

### 1. Product and Company Identification

Company

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

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

Molecular formula: C(10) H(22)N(2)  
Chemical family: cyclic, diamines, aliphatic  
Synonyms: 3-Aminomethyl-3,5,5-trimethylcyclohexylamine

### 2. Hazards Identification

Emergency overview

DANGER:  
CORROSIVE LIQUID.  
Prolonged or repeated contact may result in dermatitis.  
CAUSES SKIN BURNS.  
CAUSES EYE BURNS.  
MAY CAUSE RESPIRATORY TRACT IRRITATION.  
INGESTION MAY CAUSE GASTRIC DISTURBANCES.  
May cause sensitization by skin contact.  
Use with local exhaust ventilation.  
Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.  
Wear NIOSH-certified chemical goggles.  
Wear protective clothing.  
Eye wash fountains and safety showers must be easily accessible.  
Wear full face shield if splashing hazard exists.

State of matter: liquid  
Colour: colourless to yellow  
Odour: amine-like

Potential health effects**Primary routes of exposure:**

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

**Acute toxicity:**

Of moderate toxicity after short-term skin contact. Of moderate toxicity after single ingestion.

**Irritation / corrosion:**

Corrosive! Damages skin and eyes.

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### Assessment other acute effects:

The available information is not sufficient for evaluation.

### Sensitization:

Sensitization after skin contact possible.

### Chronic toxicity:

**Carcinogenicity:** No data available concerning carcinogenic effects.

**Repeated dose toxicity:** No other known chronic effects.

**Reproductive toxicity:** Repeated oral uptake of the substance did not cause damage to the reproductive organs. No data available concerning reproduction toxicity.

**Teratogenicity:** No indications of a developmental toxic / teratogenic effect were seen in animal studies.

**Genotoxicity:** No mutagenic effect was found in various tests with bacteria and mammalian cell culture. The substance was not mutagenic in a test with mammals.

### Medical conditions aggravated by overexposure:

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product. See MSDS section 11 - Toxicological information.

### Signs and symptoms of overexposure:

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

### Potential environmental effects

#### Aquatic toxicity:

Acutely harmful for aquatic organisms.

#### Terrestrial toxicity:

Study scientifically not justified.

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## 3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
2855-13-2	> 99.0 %	3-aminomethyl-3,5,5-trimethylcyclohexylamine

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## 4. First-Aid Measures

### General advice:

Immediately remove contaminated clothing. If danger of loss of consciousness, place patient in recovery position and transport accordingly. Apply artificial respiration if necessary. First aid personnel should pay attention to their own safety.

### If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

### If on skin:

Wash affected areas thoroughly with soap and water. Remove contaminated clothing. Immediate medical attention required.

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### **If in eyes:**

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.

### **If swallowed:**

Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

### **Note to physician**

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote. Pulmonary odema prophylaxis. Medical monitoring for at least 24 hours.

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## 5. Fire-Fighting Measures

Flash point:	112 °C	(open cup) Literature data.
Autoignition:	380 °C	(DIN 51794)
Lower explosion limit:	1.2 %(V)	
Flammability:	not readily ignited	
Self-ignition temperature:		not self-igniting

### **Suitable extinguishing media:**

water spray, dry powder, foam, carbon dioxide

### **Hazards during fire-fighting:**

No particular hazards known.

### **Protective equipment for fire-fighting:**

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

### **Further information:**

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. Accidental release measures

### **Personal precautions:**

Wear appropriate respiratory protection. Use personal protective clothing. Ensure adequate ventilation.

### **Environmental precautions:**

This product is not regulated by RCRA. This product is not regulated by CERCLA ('Superfund').

Do not discharge into drains/surface waters/groundwater.

### **Cleanup:**

Spills should be contained, solidified, and placed in suitable containers for disposal.

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## 7. Handling and Storage

### **Handling**

#### **General advice:**

Containers should be opened carefully in well-ventilated areas to avoid static discharge.

#### **Protection against fire and explosion:**

No explosion proofing necessary.

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### Storage

#### **General advice:**

Containers should be stored tightly sealed in a dry place. Keep tanks under inert gas.  
Keep away from sources of ignition - No smoking. Keep container tightly closed and in a cool place.

#### **Storage incompatibility:**

General advice: Segregate from acids and acid forming substances. Segregate from isocyanates. Segregate from epoxides.

#### **Storage stability:**

Storage duration: 24 Months

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

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## 8. Exposure Controls and Personal Protection

#### **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/particulate respirator.

##### **Hand protection:**

Chemical resistant protective gloves

##### **Eye protection:**

Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

##### **Body protection:**

Impermeable protective clothing

##### **General safety and hygiene measures:**

Eye wash fountains and safety showers must be easily accessible. Avoid inhalation of vapours/mists. Wear protective clothing as necessary to prevent contact.

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## 9. Physical and Chemical Properties

Form:	liquid	
Odour:	amine-like	
Colour:	colourless to yellow	
pH value:	11.6	( 8.5 g/l, 20 °C)
Freezing point:	10 °C	( 760 mmHg)
Boiling point:	247 °C	( 760 mmHg)
Vapour pressure:	0.0258 hPa	( 25 °C) (measured) dynamic
	0.0157 hPa	( 20 °C) (measured) dynamic
Density:	0.92 g/cm <sup>3</sup>	( 20 °C)
Relative density:	0.924	( 20 °C)
Partitioning coefficient n-octanol/water (log Pow):	0.99	( 23 °C) (Directive 92/69/EEC, A.8)
Viscosity, dynamic:	18 mPa.s	( 20 °C)
Viscosity, kinematic:	19 mm <sup>2</sup> /s	( 20 °C) (OECD 114)
Solubility in water:	approx. 492 g/l	( 23.8 °C)
Molar mass:	170.30 g/mol	

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## 10. Stability and Reactivity

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### Conditions to avoid:

Avoid all sources of ignition: heat, sparks, open flame. See MSDS section 7 - Handling and storage.

### Substances to avoid:

strong oxidizing agents, acids, halogenated compounds  
acids

### Hazardous reactions:

The product is chemically stable.  
Exothermic reaction. Reacts with acids.

### Decomposition products:

Hazardous decomposition products: carbon monoxide, carbon dioxide, nitrogen oxides

### Thermal decomposition:

< 500 °C  
No exothermic decomposition within the mentioned temperature range. No decomposition if used as directed. It is not a self-decomposable substance.

### Corrosion to metals:

No corrosive effect on metal.

### Oxidizing properties:

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

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## 11. Toxicological information

### Acute toxicity

#### Oral:

Type of value: LD50  
Species: rat  
Value: 1,030 mg/kg

#### Inhalation:

No data available.

#### Dermal:

No data available. The European Union (EU) has classified this substance as 'harmful'.

### Irritation / corrosion

#### Skin:

Species: rabbit  
Result: Corrosive.

#### Eye:

Species: rabbit  
Result: Risk of serious damage to eyes.  
Method: OECD Guideline 405

#### Sensitization:

Guinea pig maximization test  
Species: guinea pig  
Result: sensitizing  
Method: OECD Guideline 406

### Genetic toxicity

Experimental/calculated data:  
Ames-test

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No mutagenic effects reported.

Experimental/calculated data:  
Micronucleus assay  
No mutagenic effects reported.

### Aspiration Hazard:

No aspiration hazard expected.

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## 12. Ecological Information

### Fish

Acute:  
Directive 84/449/EEC, C.1 semistatic  
Leuciscus idus/LC50 (96 h): 110 mg/l  
Nominal values (confirmed by concentration control analytics)

Chronic:

Study scientifically not justified.

### Aquatic invertebrates

Acute:  
OECD Guideline 202, part 1 static  
Daphnia magna/EC50 (48 h): 23 mg/l  
Nominal values (confirmed by concentration control analytics)

semistatic  
Chaetogammarus marinus/EC50 (48 h): 388 mg/l  
The details of the toxic effect relate to the nominal concentration.

Chronic:  
OECD Guideline 202, part 2 semistatic Daphnia magna (NOEC) 21 d 3 mg/l  
Nominal values (confirmed by concentration control analytics)

### Aquatic plants

Toxicity to aquatic plants:  
Directive 88/302/EEC, part C, p. 89 green algae/EC50 (72 h): > 50 mg/l  
Nominal concentration.

### Microorganisms

Toxicity to microorganisms:  
DIN 38412 Part 8 bacterium/EC10 (18 h): 1,120 mg/l  
Nominal concentration.

### Degradability / Persistence

#### Biological / Abiological Degradation

Test method: Directive 92/69/EEC, C.4-A (aerobic),  
Method of analysis: DOC reduction  
Degree of elimination: 8 % (28 d)  
Evaluation: Not readily biodegradable (by OECD criteria).

### Hydrolysis

Test method: OECD Guideline 111  
Half-life: (50 °C)

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### Bioaccumulation

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

### Environmental mobility:

#### Transport between environmental compartments:

calculated adsorption/water - soil

KOC: 928

log KOC: 2.97

### Other adverse effects:

Due to the pH-value of the product, neutralization is generally required before discharging sewage into treatment plants. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

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## 13. Disposal considerations

### Waste disposal of substance:

Incinerate in a licensed facility. Do not discharge substance/product into sewer system.

### Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

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## 14. Transport Information

### Land transport

USDOT

Hazard class: 8  
Packing group: III  
ID number: UN 2289  
Hazard label: 8  
Proper shipping name: ISOPHORONEDIAMINE

### Sea transport

IMDG

Hazard class: 8  
Packing group: III  
ID number: UN 2289  
Hazard label: 8  
Marine pollutant: NO  
Proper shipping name: ISOPHORONEDIAMINE

### Air transport

IATA/ICAO

Hazard class: 8  
Packing group: III  
ID number: UN 2289  
Hazard label: 8  
Proper shipping name: ISOPHORONEDIAMINE

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### 15. Regulatory Information

#### Federal Regulations

**Registration status:**

Chemical TSCA, US released / listed

**OSHA hazard category:** Acute target organ effects reported; Corrosive to skin and/or eyes; Sensitizer

**EPCRA 311/312 (Hazard categories):** Acute; Chronic

#### State regulations

**State RTK**

NJ

**CAS Number**

2855-13-2

**Chemical name**

3-aminomethyl-3,5,5-trimethylcyclohexylamine

### 16. Other Information

**NFPA Hazard codes:**

Health : 3 Fire: 1 Reactivity: 0 Special:

**HMIS III rating**

Health: 3 Flammability: 1 Physical hazard: 0

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

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**MSDS Prepared by:**

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MSDS Prepared on: 2012/05/18

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