



## SAFETY DATA SHEET B 51 Part B

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	B 51 Part B
SUPPLIER	ARDEX ENDURA (INDIA) PRIVATE LIMITED Corporate Office & Regd. Office: Unit No. 406 & 407, "Brigade Rubix", No. 20, Yeshwanthapur Hobli, HMT Campus, Bangalore - 560022. Karnataka, INDIA. CIN No: U24233KA1997PTC022383 Tel: +91 80 66746500 Email: <a href="mailto:customercare@ardexendura.com">customercare@ardexendura.com</a> Visit us: <a href="http://www.ardexendura.com">www.ardexendura.com</a>
DATE	06/09/2021

### 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
Acute Tox.	4 (dermal)	Acute toxicity
Skin Corr./Irrit.	1B	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
Skin Sens.	1A	Skin sensitization
Aquatic Acute	3	Hazardous to the aquatic environment - acute
Aquatic Chronic	3	Hazardous to the aquatic environment - chronic

Label elements

Pictogram:



Signal Word:  
Danger

Hazard Statement:

H312	Harmful in contact with skin.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H314	Causes severe skin burns and eye damage.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P260	Do not breathe dust or mist.
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 with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P310	Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P361 + P364	Take off immediately all contaminated clothing and wash it before reuse.

Precautionary Statements (Storage):  
P405 Store locked up.

Precautionary Statements (Disposal):  
P501 Dispose of contents/container to hazardous or special waste collection point.

**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

CAS Number	Weight %	Chemical name
2855-13-2	>= 99.7 - <= 100.0%	3-aminomethyl-3,5,5-trimethylcyclohexylamine
133117-08-5	>= 0.1 - <= 0.1%	Cyclohexanecarbonitrile, 5-amino-1,3,3-trimethyl-

**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.

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.

Most important symptoms and effects, both acute and delayed

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

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. Pulmonary odema prophylaxis. Medical monitoring for at least 24 hours.

**5. FIRE-FIGHTING MEASURES**

Extinguishing media

Suitable extinguishing media:

water spray, dry powder, foam, carbon dioxide

Special hazards arising from the substance or mixture

Hazards during fire-fighting: No particular hazards known.

Advice for fire-fighters

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.

**B 51 Part B****6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures  
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.

Methods and material for containment and cleaning up  
Spills should be contained, solidified, and placed in suitable containers for disposal.

**7. HANDLING AND STORAGE**

Precautions for safe handling  
Containers should be opened carefully in well-ventilated areas to avoid static discharge.

Protection against fire and explosion:  
No explosion proofing necessary.

Conditions for safe storage, including any incompatibilities  
Segregate from acids and acid forming substances. Segregate from isocyanates. Segregate from epoxides.

Suitable materials for containers: Carbon steel (Iron), Stainless steel 1.4401, Stainless steel 1.4301 (V2), High density polyethylene (HDPE), glass, Low density polyethylene (LDPE)

Further information on storage conditions: 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 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.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

No 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/particulate respirator.

Hand protection:  
Chemical resistant protective gloves, Suitable materials, polyvinylchloride (Pylox)

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

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:  
Eye wash fountains and safety showers must be easily accessible. Avoid inhalation of vapours/mists.

Wear protective clothing as necessary to prevent contact.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form:	liquid	
Odour:	amine-like	
Odour threshold:	Not determined due to potential health hazard by inhalation.	
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)	
Flash point:	112°C Literature data.	(open cup)



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### Acute Toxicity/Effects

#### Acute toxicity

Assessment of acute toxicity: Of moderate toxicity after short-term skin contact. Of moderate toxicity after single ingestion.

#### Oral

Type of value: Ld50

Species: rat (male)

Value: 1,030 mg/kg (similar to OECD guideline 401)

#### Inhalation

Type of value: Lc50

Species: rat

Value: > 5.01 mg/l (OECD Guideline 403)

Exposure time: 4 h

#### Dermal

Type of value: Ld50

Species: rat

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

The European Union (EU) has classified this substance as 'harmful'.

### Assessment other acute effects

Assessment of STOT single:

The available information is not sufficient for evaluation.

### Irritation / corrosion

Assessment of irritating effects: Corrosive! Damages skin and eyes.

#### Skin

Species: rabbit

Result: Corrosive.

#### Eye

Species: rabbit

Result: Risk of serious damage to eyes.

Method: OECD Guideline 405

### Sensitization

Assessment of sensitization: Sensitization after skin contact possible.

### Guinea pig maximization test

Species: guinea pig

Result: sensitizing

Method: OECD Guideline 406

### Aspiration Hazard

No aspiration hazard expected.

### Chronic Toxicity/Effects

#### Repeated dose toxicity

Assessment of repeated dose toxicity: The substance may cause damage to the kidney after repeated ingestion of high doses, as shown in animal studies.

#### Genetic toxicity

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

#### Carcinogenicity

Assessment of carcinogenicity: Study scientifically not justified.

#### Reproductive toxicity

Assessment of reproduction toxicity: Repeated oral uptake of the substance did not cause damage to the reproductive organs. Study scientifically not justified.

#### Teratogenicity

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

### Symptoms of Exposure

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

### 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.

**B 51 Part B****12. ECOLOGICAL INFORMATION**

## Aquatic toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms.

## Toxicity to fish

LC50 (96 h) 110 mg/l, *Leuciscus idus* (Directive 84/449/EEC, C.1, semistatic)

Nominal values (confirmed by concentration control analytics)

## Aquatic invertebrates

EC50 (48 h) 23 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Nominal values (confirmed by concentration control analytics)

EC50 (48 h) 388 mg/l, *Chaetogammarus marinus* (semistatic)

The details of the toxic effect relate to the nominal concentration.

## Aquatic plants

EC50 (72 h) > 50 mg/l (growth rate), *Scenedesmus subspicatus* (Directive 88/302/EEC, part C, p.89)

Nominal concentration.

EC10 (72 h) 11.2 mg/l (growth rate), *Scenedesmus subspicatus* (Directive 88/302/EEC, part C, p.89)

Nominal concentration.

## Chronic toxicity to fish

Study scientifically not justified.

## Chronic toxicity to aquatic invertebrates

No observed effect concentration (21 d) 3 mg/l, *Daphnia magna* (OECD Guideline 202, part 2, semistatic)

Nominal values (confirmed by concentration control analytics)

## Assessment of terrestrial toxicity

Study scientifically not justified.

## Microorganisms/Effect on activated sludge

## Toxicity to microorganisms

DIN 38412 Part 8 bacterium/EC10 (18 h): 1,120 mg/l

Nominal concentration.

## Persistence and degradability

## Assessment biodegradation and elimination (H2O)

Not readily biodegradable (by OECD criteria).

## Elimination information

8 % DOC reduction (28 d) (Directive 92/69/EEC, C.4-A) (aerobic, predominantly domestic sewage)

## Assessment of stability in water

In contact with water the substance will hydrolyse slowly.

## Information on Stability in Water (Hydrolysis)

&lt; 10 % (5 d) (50 °C, pH value 7), (OECD Guideline 111, pH 7)

## Bioaccumulative potential

## Bioaccumulation potential

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

## 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 not expected.

## Additional information

## Adsorbable organically-bound halogen (AOX):

This product contains no organically-bound halogen.

## Other ecotoxicological advice:

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.

**B 51 Part B****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.

**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

**15. REGULATORY INFORMATION**

Federal Regulations

Registration status:

Chemical	TSCA, US	released / listed
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EPCRA 311/312 (Hazard categories):	Acute;
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State regulations

State RTK	CAS Number	Chemical name
NJ	2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine

NFPA Hazard codes:

Health : 3	Fire: 1	Reactivity: 0	Special:
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HMIS III rating

Health: 3	Flammability: 1	Physical hazard: 0
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Assessment of the hazard classes according to UN GHS criteria (most recent version):

Aquatic Acute	3	Hazardous to the aquatic environment - acute
Aquatic Chronic	3	Hazardous to the aquatic environment - chronic

Skin Corr./Irrit.	1B	Skin corrosion/irritation
Acute Tox.	4 (dermal)	Acute toxicity
Acute Tox.	4 (oral)	Acute toxicity
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
Skin Sens.	1A	Skin sensitization

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### 16. OTHER INFORMATION

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**TRAINING ADVICE:**

The details of this data sheet must be passed on to all personnel handling the product.

### **DISCLAIMER**

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.