

# Safety data sheet

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BASF Safety data sheet  
Date / Revised: 17.11.2008  
Product: **CONCRESlVE 1438 PART B**

Version: 1.0

(30362735/SDS\_GEN\_SG/EN)

Date of print 13.03.2010

## 1. Substance/preparation and company identification

### CONCRESlVE 1438 PART B

Use: Product for construction chemicals

Company:

BASF South East Asia Pte Ltd.  
7 Temasek Boulevard,  
#35-01 Suntec Tower One, 038987, SINGAPORE  
Telephone: +65 6 337-0330  
Telefax number: +65 6 334-0330  
E-mail address: tommy.chng@basf.com

Emergency information:

International emergency number:  
Telephone: +49 180 2273-112

## 2. Composition/information on ingredients

### Chemical nature

Blend based on: polymeric amine, aliphatic, modified

### Hazardous ingredients

triethylenetetramine

Content (W/W):  $\geq 1\%$  -  $\leq 2\%$ 

CAS Number: 112-24-3

EC-Number: 203-950-6

INDEX-Number: 612-059-00-5

Hazard symbol(s): C

R-phrase(s): 21, 34, 43, 52/53

**2,2'-iminodi(ethylamine)**Content (W/W):  $\geq 1\%$  -  $\leq 4.9\%$ 

CAS Number: 111-40-0

EC-Number: 203-865-4

INDEX-Number: 612-058-00-X

Hazard symbol(s): C

R-phrase(s): 21/22, 34, 43

**aliphatic polyamines**Content (W/W):  $\leq 85\%$ 

Hazard symbol(s): Xn, N

R-phrase(s): 36/37/38, 42/43, 51/53

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

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### 3. Hazard identification

Harmful.

Irritating to eyes, respiratory system and skin.

May cause sensitization by inhalation and skin contact.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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### 4. First-aid measures

General advice:

First aid personnel should pay attention to their own safety. Immediately remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

On contact with eyes:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote, administer corticosteroid dose aerosol to prevent pulmonary edema.

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## 5. Fire-fighting measures

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

Unsuitable extinguishing media for safety reasons:  
water jet

Specific hazards:  
carbon dioxide, carbon monoxide, nitrogen oxides, fumes/smoke, carbon black, corrosive gases/vapours

Special protective equipment:  
Wear a self-contained breathing apparatus.

Further information:  
The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

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## 6. Accidental release measures

Personal precautions:  
Use personal protective clothing. Do not breathe vapour/aerosol/spray mists. Sources of ignition should be kept well clear. Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions:  
Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:  
For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.  
For large amounts: Pump off product.

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## 7. Handling and storage

### Handling

Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.

Protection against fire and explosion:  
The substance/product is non-combustible. The product does not contribute to the spreading of flames, nor is it self combustible, not explosive.

### Storage

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight. Store protected against freezing.

Protect from temperatures below: 5 °C  
Protect from temperatures above: 35 °C

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## 8. Exposure controls and personal protection

### Components with workplace control parameters

triethylenetetramine, 112-24-3;

2,2'-iminodi(ethylamine), 111-40-0;

TWA value 1 ppm (ACGIHTLV)

Skin Designation (ACGIHTLV)

The substance can be absorbed through the skin.

TWA value 4.2 mg/m<sup>3</sup> ; 1 ppm (OEL (SG))

### Personal protective equipment

#### Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (e. g. EN 14387 Type ABEK-P3)

#### Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other. Manufacturer's directions for use should be observed because of great diversity of types.

#### Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

#### Body protection:

acid- resp. lye-proof apron, e.g. of rubber (f.e. according to EN 14605), Body protection must be chosen based on level of activity and exposure.

#### General safety and hygiene measures:

Do not inhale gases/vapours/aerosols. Avoid contact with the skin, eyes and clothing. Handle in accordance with good building materials 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. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

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## 9. Physical and chemical properties

Form:	liquid
Colour:	black
Odour:	characteristic
pH value:	11
boiling temperature:	> 100 °C
Flammability:	not self-igniting
Self-ignition temperature:	not self-igniting

## 10. Stability and reactivity

Conditions to avoid:  
See MSDS section 7 - Handling and storage.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:  
zinc, aluminium, oxidizing agents, strong alkalies, acids, mild steel, carbon steel (iron)

Corrosion to metals: No data available.

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

## 11. Toxicological information

### Acute toxicity

Information on: 2,2'-iminodi(ethylamine)  
LD50 rat (oral): approx. 1,140 mg/kg (BASF-Test)  
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### Irritation

Information on: 2,2'-iminodi(ethylamine)  
Primary skin irritation rabbit: Corrosive. (BASF-Test)  
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Information on: 2,2'-iminodi(ethylamine)  
Primary irritations of the mucous membrane: As the product corrodes the skin, it can be expected to have a similar effect on the eyes also.  
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### Sensitization

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May produce an allergic reaction.

### Other relevant toxicity information

The product has not been tested. The statement has been derived from the properties of the individual components.

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## 12. Ecological information

### Ecotoxicity

Information on: 2,2'-iminodi(ethylamine)

Toxicity to fish:

LC50 (96 h) 248 mg/l, *Leuciscus idus* (DIN 38412 Part 15)

Nominal concentration.  
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Information on: 2,2'-iminodi(ethylamine)

Aquatic invertebrates:

EC50 (48 h) 16 mg/l, *Daphnia magna* (DIN 38412 Part 11)

Nominal concentration.  
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### Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control. The product has not been tested. The statement has been derived from the properties of the individual components.

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## 13. Disposal considerations

Observe national and local legal requirements.

Residues should be disposed of in the same manner as the substance/product.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

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## 14. Transport information

### Domestic transport:

Hazard class: 9

Packing group: III

ID number: UN 3082

Hazard label: 9

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains POLYAMINE MODIFIED)

### Sea transport

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**IMDG**

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9  
Marine pollutant: YES  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains POLYAMINE MODIFIED)

**Air transport****IATA/ICAO**

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains POLYAMINE MODIFIED)

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**15. Regulatory information****Regulations of the European union (Labelling)****EEC Directives:**

Hazard symbol(s)  
Xn Harmful.

R-phrase(s)  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R42/43 May cause sensitization by inhalation and skin contact.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
S22 Do not breathe dust.  
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

**Other regulations**

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## 16. Other information

Due to the merger of Degussa Construction chemicals and BASF Group all Material Safety Data Sheets have been reassessed on the basis of consolidated information. This may have resulted in changes of the Material Safety Data Sheets. In case you have questions concerning such changes please contact us under the address mentioned in Section I.

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 2:

C	Corrosive.
Xn	Harmful.
N	Dangerous for the environment.
21	Harmful in contact with skin.
34	Causes burns.
43	May cause sensitization by skin contact.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
21/22	Harmful in contact with skin and if swallowed.
36/37/38	Irritating to eyes, respiratory system and skin.
42/43	May cause sensitization by inhalation and skin contact.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.