



The Chemical Company

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: **CONCRESlVE® 1441 WINTER PART B**

Company: BASF South East Asia Pte Ltd

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Singapore 639090

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2. HAZARDS IDENTIFICATION

Safety hazards: Corrosive.

Health hazards: Vapour is severe eye irritant. Liquid can cause severe or permanent eye damage.

Skin irritant, may cause sensitisation in some individuals.

Ingestion can cause irritation, nausea vomiting and diarrhoea.

Inhalation can cause severe irritation.

Environmental hazards: See section 12.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical

characterization: Mixture of modified polyamines resin, amine and filler.

Hazardous Ingredients: Diethyltoluenediamine Trimethyl Hexamethylene Diamines

CAS No: 68479-98-1 3236-53-1, 3236-54-2

Hazard symbols: C C

R-phrases: R34, R36/38 R34, R36/38

% Concentration: <10% <20%

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4. FIRST AID MEASURES

Immediate treatment

Eye contact:	While eyes are held open gently flush with water for 30 minutes. Seek immediate medical attention.
Skin contact:	Remove all contaminated clothing and shoes. Wash skin thoroughly with soap and water for at least 15 minutes. Avoid solvents. Seek medical advice if irritation persists. Destroy contaminated leather.
Inhalation:	Remove to fresh air. Supply oxygen and / or artificial respiration as needed. Seek medical assistance as needed particularly in case of allergic response.
Ingestion:	Do not induce vomiting. Give large quantities of water or diluted water with acetic acid, get immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Do not give anything by mouth to an unconscious person.
Information for physicians:	Treat symptomatically. Contact Poisons Information Centre as needed. Allergic response as dermatitis or asthma-like symptoms / wheezing may occur after a single significant exposure and sensitisation may occur after single or multiple minor exposures, depending on the individual.

5. FIRE FIGHTING MEASURES

Special hazards:	In case of fire oxides of carbon, nitrogen and other toxic gases are formed.
Protective equipment:	Fire fighters should wear self-contained breathing apparatus in enclosed areas.
Extinguishing agents:	Water spray, foam, carbon dioxide, dry powder.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear appropriate personal protection and ensure adequate ventilation.
Environmental precautions:	Prevent discharge into drains, sewers and waterways.
Method for cleaning up:	Absorb in inert dry material. Do not sweep up or wash down with water.

7. HANDLING AND STORAGE

Handling:	Keep containers tightly closed when not in use.
Requirements for storage rooms:	Keep dry and preferably keep cool.
Materials not to be stored together:	Keep separate from strong oxidising agents, acids, isocyanates, and organic peroxides may result in violent explosive reaction.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Technical measures: Use mechanical mixing equipment and provide long handled brush for washing tools. Use only in well ventilated areas.

Personal protection

Respiratory protection: Use respiratory equipment in accordance to local safety requirements.

Eye protection: Wear safety glasses, which comply with local standards.

Hand protection: Wear gloves or suitable protective creams.

Body protection: Wear overalls or other suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste
Colour: Black
Odour: Ammonia
Freezing temperature: n.d.
Boiling point: 231^oC
Melting point: n.d.
Flash point: 102^oC(TPM) TC.C
Vapour pressure: 1mm(DETA)
Vapour density: Heavier than air
Relative density: 1.67 @ 25 C
pH value: Basic
Viscosity: n.d.
Solubility in water: Slight

10. STABILITY AND REACTIVITY

Stability: Stable under normal storage and usage temperatures.

Hazardous reactions (conditions to avoid): Avoid heat, and sources of ignition.

Materials to avoid: Avoid oxidising materials.

Hazardous decomposition products: Carbon monoxide and dioxide, nitrogen oxides, aldehydes, and various nitrogen and hydrocarbons from incomplete combustion.

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11. TOXICOLOGICAL INFORMATION

Acute toxicity (lethal dose)

LD50 oral Albino rat

Dose: DETA dermal (rat) LD(50) - 1080mg/kg
DETDA dermal - 485mg/kg

Additional information: n.d.

Information applies to: Concesive 1441 Winter Part B

LC50 inhalation Albino rat

Dose: n.d.

Additional information: n.a.

Information applies to: Concesive 1441 Winter Part B

Acute toxicity (irritation, sensitization etc.)

Eye irritation Albino rabbit

Result: n.d.

Symptoms: n.d.

Method: n.a.

Skin irritation Albino rabbit

Results: DETA dermal (rabbit) LD(50) - 1090mg/kg
DETDA dermal - 700mg/kg

Symptoms: n.d.

Method: n.a.

Delayed or chronic toxicological effects

Additional information: n.a.

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12. ECOLOGICAL INFORMATION

Ecotoxicity

LC50 dose: n.d.

Additional information

Ecotoxicity: Do not allow to be absorbed into soil. Prevent discharge into drains

Biochemical oxygen demand

COD: n.d.

BOD: n.d.

Other: n.a.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all local and governmental regulations.
Set resin and hardener can be disposed to landfill.

14. TRANSPORT INFORMATION

Road transport ADR / RID

Class: Corrosive Solid N.O.S

Number/letter: n.as.

Warning sign: n.as.

Hazard No: n.as.

UN No: 1759

Maritime / Air transport IMDG

UN No: 1759

PG: n.as.

Class: 8

IMDG code page: n.as.

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15. REGULATORY INFORMATION

Classification:	Required.
Hazard labels:	C – Corrosive.
R-phrases:	R21/22- Harmful in contact with skin and if swallowed. R34- Causes burns. R43- May cause sensitization by skin contact.
S-phrases:	S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28- After contact with skin, wash immediately with plenty of water. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

National regulatory information:

n.as.

Other regulations, restrictions and prohibitions:

n.a.

16. OTHER INFORMATION

Concresive 1441 Winter Part B is part of a two-component epoxy resin system. Fully cured epoxy resin compositions, comprising mixed Part A and Part B, are considered non-toxic, non-irritant and non-sensitizing to the skin. Contact with the individual components during mixing and application should be minimised.

Reason for Issue: New format based on National Code of Practice for the preparation of MSDS – 2nd edition [NOHSC:2011(2003)]. Change of company name.

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. All information contained in this MSDS is as accurate and up-to-date as possible. No warranty expressed or implied is made as to its accuracy, reliability or completeness.