

MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: SISCOFLOOR-1200 (L) (PART B)
 Product Use: Hardener for epoxy resin
 Manufacturer/Supplier: SISSONS PAINTS (THAILAND) LTD.
 Address: 91/2 Moo 3 Suwinthawong Road, Minburi, Bangkok 10510
 Tel. +66(0) 2517 1146, +66(0) 2918 6760-1, Fax. +66(0) 2517 2137

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characteristic :	Cycloaliphatic amine		
Ingredients	CAS.No.	Percent	
Modified cycloaliphatic amine	Not established	100	

SECTION 3 HAZARDS IDENTIFICATION

Eye : May cause severe eye irritation.
 Skin : May cause sensitization to skin.
 Ingestion : If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.
 Inhalation : May cause respiratory irritant

SECTION 4 FIRST AID MEASURES

If POISONING IS SUSPECTED, immediately contact doctor or nearest hospital.

EYES: Immediately rinse eyes with a large amount of running water. Hold eyelids apart to rinse the entire surface of the eyes and lids. Do not apply any medicating agents except on the advice of a physician.

SKIN: Wash with plenty of soap and water. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.

INHALATION: No adverse effects anticipated by this route of exposure.

INGESTION: Do not induce vomiting. Drink water in small sips. (Diluting effect)
 Visit doctor.

SECTION 5 FIRE FIGHTING MEASURES

Hazardous combustion products: Incomplete combustion may form carbon monoxide. May generate ammonia gas. May generate toxic nitrogen oxide gases. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.

Extinguishing media: Foam, and carbon dioxide, dry chemical, dry sand, lime stone powder.

Other Flammability Information: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.

Protective Equipments for Fire Fighting: Wear positive pressure self-contained breathing apparatus (SCBA) and full protective equipment.

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SECTION 6 ACCIDENTAL RELEASE MEASURES

Procedures for dealing with release or spill:

Control spill at its source. Contain spill to prevent from spreading or from entering sewage or drainage of systems or any body of water. Clean up spills immediately, observing precautions outlines in Section 8.

For small spills, cover with an absorbent material such as pet litter. Sweep up, and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container. Seal the container and handle in an approved manner. Flush the area with water to remove any residue. Do not allow wash water to contaminate water supplies.

SECTION 7 HANDLING AND STORAGE

Handling: Use only in well-ventilated areas. Avoid breathing vapors and/or aerosols. Avoid contact with skin and eyes. Avoid contact with eyes. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Use personal protective equipment. When using, do not eat, drink or smoke.

Storage: Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8 EXPOSURE CONTROL / PERSONAL PROTECTION

Eye: Do not get in eyes. Wear chemical goggles.

Skin: Avoid prolonged or repeated skin contact. Wear protective clothing and gloves e.g. butyl-rubber, nitrile rubber, neoprene gloves, impervious gloves, PVC disposable gloves.

Respiratory protection: Wear appropriate respirator when ventilation is inadequate.

Engineering Controls: Good general ventilation should be sufficient for most conditions.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Amber Liquid

Odour: Ammonical

pH: Not applicable

Vapour pressure: < 1 mmHg

Viscosity: 220 mPa.s

Flash point: > 100 °C

Boiling point: > 200 °C

Density: Approx. 1.02 g/ml

SECTION 10 STABILITY AND REACTIVITY

Stability : Stable under normal conditions.

Materials to Avoid : Reactive metal, material active to hydroxyl compounds, organic acids, mineral acid, sodium hypochlorite, oxidizing agent, Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.

Hazardous flammable: Nitric acid, ammonia, Nitrogen oxide, CO, CO₂, aldehydes,
Decomposition Product hydrocarbon fragments.

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SECTION 11 TOXICOLOGICAL INFORMATION

Acute Health Hazard

Ingestion : No data is available on the product itself.

Ingestion - Components

Methyleneoxide, polymer with benzenamine, hydrogenated	LD50 : 367 mg/kg	Species : Rat
2,4,6-Tris(dimethylaminomethyl)phenol	LD50 : 1,673 mg/kg	Species : Rat
2,4,6-Tris(dimethylaminomethyl)phenol	LD50 : 2,169 mg/kg	Species : Rat
Benzyl alcohol	LD50 : 1,230 mg/kg	Species : Rat

Inhalation : No data is available on the product itself

Inhalation - Components

Benzyl alcohol	LC50 (4 h) : > 4.178 mg/IOECD Test Guideline403	Species : Rat
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Skin : No data is available on the product itself.

Skin - Components

Methyleneoxide, polymer with benzenamine, hydrogenated	LD50 : > 1,000 mg/kg	Species : Rabbit
2,4,6-Tris(dimethylaminomethyl)phenol	LD50 : 1,242 mg/kg	Species : Rabbit
Benzyl alcohol	LD50 : 2,000 mg/kg	Species : Rabbit

Sensitization : May cause sensitization by skin contact. Dermal sensitization to this product or has been seen in some humans. The results of a test on guinea pigs showed this substance to be a weak skin sensitizer. May cause sensitization of susceptible persons by skin contact.

Chronic Health Hazard

Mixed polycycloaliphatic amines was tested in rats for systemic effects in a subchronic (28-day) oral study at doses ranging from 15 to 300 mg/kg/day. Effects seen at 300 mg/kg/day included decreased survival, decreased body weight gain, increased liver, kidney and adrenal weights and histological changes in the liver, kidney, adrenals and spleen. The No-Observed-Adverse-Effect-Level (NOAEL) was 15 mg/kg/day. Rats exposed orally to 800 mg/kg benzyl alcohol for thirteen weeks exhibited CNS depression and histopathological changes in the brain, thymus and skeletal muscles. The No Observed Adverse Effect Level (NOAEL) was 400 mg/kg. No evidence of carcinogenicity was seen in a two-year study with rats and mice.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity : No data is available on the product itself.

Toxicity to fish - Components

Benzyl alcohol	LC50: 10 mg/l	Species : Bluegill, sunfish(Lepomis macrochirus)
Benzyl alcohol	LC50: 460 mg/l	Species : Fathead minnow (Pimephales promelas)

Toxicity to algae - Components

Benzyl alcohol	LC50 (72 h) : 700 mg/l	Species : Algae.
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Toxicity to other organisms : No data available.

Persistence and degradability

Mobility : No data available.

Bioaccumulation : No data is available on the product itself.

Biodegradability : No data is available on the product itself.

Bioaccumulation - Components

Benzyl alcohol	Low bioaccumulation potential.
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SECTION 13 DISPOSAL CONSIDERATIONS

Disposal : Do not dump into any sewers, on the ground, or into any body of water. All disposal methods must be in compliance with federal, or local laws and regulations.

SECTION 14 TRANSPORT INFORMATION

ADR

Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S. (Cycloaliphatic amine)
 Class : 8
 UN/ID No. : UN2735
 Packing group : III
 ADR/RID Hazard ID no. : 80

IATA

Proper shipping name : Amines, liquid, corrosive, n.o.s. (Cycloaliphatic amine)
 Class : 8
 UN/ID No. : UN2735
 Packing group : III

IMDG

Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S. (Cycloaliphatic amine)
 Class : 8
 UN/ID No. : UN2735
 Packing group : III

RID

Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.(Cycloaliphatic amine)
 Class : 8
 UN/ID No. : UN2735
 Packing group : III

SECTION 15 REGULATORY INFORMATION

Labelling according to EEC Directive

Hazard symbol : C Corrosive
 R-phrase(s) : R20/22 Harmful by inhalation and if swallowed.
 R34 Causes burns.
 R43 May cause sensitization by skin contact.
 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 S-phrase(s) : S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 S45 In case of accident or if you feel unwell, seek medical advice immediately(show label where possible).
 S60 This material and/or its container must be disposed of as hazardous waste.

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SECTION 16 OTHER INFORMATION

Ensure all national/local regulations are observed.

R-phrases - Components

R34	Causes burns.
R22	Harmful if swallowed.
R22	Harmful if swallowed.
R36/38	Irritating to eyes and skin.
R20/22	Harmful by inhalation and if swallowed.

The information and recommendations contained herein are based on information believed to be correct. However, no guarantee or warranty of any kind, expressed or implied is made with respect to the information provided herein.