# MATERIAL SAFETY DATA SHEET

## SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

| | |
|---|---|
| Product Name: | SISCOGUARD FINISH 100 (PART B) |
| Product Use: | Hardener for epoxy resin |
| Manufacturer/Supplier: | SISSONS PAINTS (THAILAND) LTD. |
| Address: | 91/2 Moo 3 Suwinthawong Road, Minburi, Bangkok 10510<br>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

Emergency Overview

Corrosive
Components of the product may affect the nervous system
Severe eye irritant
Severe respiratory irritant
May cause sensitization by skin contact

POTENTIALS HEALTH EFFECTS

Eye contact : Corneal edema may give rise to a perception of “blue haze” or “fog” around lights. Exposed individuals may see rings around bright lights. This effect is temporary and has no known residual effect. Product vapor can cause glaucopsia (corneal edema) when absorbed into the tissue of the eye from the atmosphere. Causes eye burns. May cause blindness. Severe eye irritation.

Skin contact : Causes skin burns. If absorbed through the skin, may cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties.

Ingestion : If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

Inhalation : Harmful if inhaled and may cause delayed lung injury. Can cause severe eye skin and respiratory tract burns. Risk of serious damage to the lungs (by inhalation of aerosol may cause irritation to the upper respiratory tract. May cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties. Severe cases of overexposure can result in respiratory failure. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system.

Chronic Health Hazard : This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1% or greater. May cause allergic skin reaction.

EXPOSURE GUIDELINES

Target Organs : Skin, Eyes, Respiratory system, Central nervous system

Symptoms : Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause Sore throat.

AGGRAVATED MEDICAL CONDITION

Eye disease Skin disorders ad Allergies. Asthma, Neurological disorders.

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| SECTION 4 FIRST AID MEASURES | |
|---|---|
| General advice : | Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. |
| 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. NOTE TO PHYSICIANS: Application of corticosteroid d cream has been effective in treating skin irritation. |
| INHALATION: | If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air. |
| INGESTION: | Do not induce vomiting without medical advice. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side. |

| SECTION 5 FIRE FIGHTING MEASURES | |
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| 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 waterway. |
| Protective Equipments for Fire Fighting: | Wear positive pressure self-contained breathing apparatus (SCBA) and full protective equipment. |

| 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.<br>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. |

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| 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: | Colorless Liquid |
| Odour: | Ammoniacal |
| pH: | 9 |
| Vapour pressure: | < 10.34 mmHg @ 21$^{o}$C |
| Water solubility: | <0.1 g/l |
| Flash point: | 96 $^{o}$C |
| Boiling point: | 205 $^{o}$C |
| Density: | Approx. 1.03 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: Decomposition Product | Nitric acid, ammonia, Nitrogen oxide, CO, $CO_2$, aldehydes, hydrocarbon fragments. |

| SECTION 11 TOXICOLOGICAL INFORMATION | |
|---|---|
| Acute Health Hazard | |
| Ingestion : | LD50 : 2,369 mg/kg Species : Rat |
| Inhalation : | No data is available on the product itself. |
| Inhalation - Components | |
| Benzyl alcohol | LC50 (4 h) : > 4.178 mg/l OECD Test Guideline403 Species : Rat. |
| Dermal : | LD50: > 2,000 mg/kg Species : Rat. |
| Skin irritation/ corrosion. : | Corrosive to the skin of a rabbit |
| Eye irritation/ corrosion : | Severe eye irritation. Risk of serious damage to eyes. |
| Chronic Health Hazard | Rats exposed orally to 800 mg/kg benzyl alcohol f or 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. |

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## SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity effects

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|---|---|
| Aquatic toxicity : | No data is available on the product itself. |
| Toxicity to fish - Components | |
| Benzyl alcohol | LC50: 10 mg/l Species : Bluegill, sunfish(Lepomismacrochirus) |
| Benzyl alcohol | LC50: 460 mg/l Species : Fathead minnow (Pimephalespromelas) |
| Toxicity to algae - Components | |
| Benzyl alcohol | LC50 (72 h) : 700 mg/l Species : Algae. |
| Toxicity to other organisms : | No data available. |

Persistence and degradability

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|---|---|
| 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. |

## SECTION 13 DISPOSAL CONSIDERATIONS

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| 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

DOT

| | |
|---|---|
| UN/ID No. : | UN2289 |
| Proper shipping name : | Isophoronediamine Mixture |
| Class : | 8 |
| Packing group : | III |
| Label(s) : | 8 |

IATA

| | |
|---|---|
| UN/ID No. : | UN2289 |
| Proper shipping name : | Isophoronediamine Mixture |
| Class : | 8 |
| Packing group : | III |
| Label(s) : | 8 |

IMDG

| | |
|---|---|
| UN/ID No. : | UN2289 |
| Proper shipping name : | Isophoronediamine Mixture |
| Class : | 8 |
| Packing group : | III |
| Label(s) : | 8 |

Further Information

The transportation information is not intended to convey all specific regulatory data relating to this material. For complete transportation information, contact an Air Products customer service representative.

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| SECTION 15 REGULATORY INFORMATION |
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| Toxic Substance Control Act (TSCA) 12(b) Component(s) : None<br>WHMIS Hazard Classification Toxic Material Causing Other Toxic Effects, Corrosive Material |
| **SECTION 16 OTHER INFORMATION** |
| WHMIS Rating<br>Health : 3<br>Flammability : 1<br>Physical hazard : 0<br><br>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. |