

**SumiDurez Singapore Pte Ltd****MATERIAL SAFETY DATA SHEET**

MSDS REVISION: 0

DATE: 1-Jan-04

**1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: Phenolic Moulding Compound  
 CHEMICAL NAME: Complex  
 GRADE: "SUMIKON"<sup>®</sup> PM-9820  
 TYPE: JR BLACK  
 CHEMICAL FORMULA: Complex  
 COMMON NAME: Not Available

MANUFACTURER: SumiDurez Singapore Pte Ltd  
 ADDRESS: 9 Tanjong Penjuru Crescent Singapore 608972  
 PHONE / FACSIMILE NUMBER: (65) 62651717 / (65) 62641916

EMERGENCY TELEPHONE NUMBER AVAILABLE 24 HOURS PER DAY (65) 62651717

**2 COMPOSITION / INFORMATION ON INGREDIENTS**

Components	(CAS No.)	Percentage (%)	Exposure Guidelines	
			TLV-TWA (ACGIH) (mg/m <sup>3</sup> )	PEL (OSHA) (mg/m <sup>3</sup> )
Phenolic Resin	9003-35-4	40 - 60	Not Listed	Not Listed
Cellulose, Wood Flour		15 - 35	Not Listed	Not Listed
Aluminum Silicate	92704-41-1	5 - 15	Not Listed	Not Listed
Zinc Borate	138265-88-0	1 - 10	10.0	Not Listed
Calcium Hydroxide	1305-62-0	Below 5	5	Not Listed
Stearic Acid	61790-38-3	Below 5	Not Listed	Not Listed
Carbon Black	1333-86-4	Below 5	3.5	3.5
Zinc Stearate	557-05-1	0.10 - 2	Not Listed	10.0 (Total)

**COMPONENTS CONTRIBUTING TO THE HAZARD:**

Nuisance Dust (-80)	N.A.	0 - 15	10.0 (Total)	15.0 (Total) 5.0 (Respirable)
Phenol	108-95-2	< 5.0	5.0 ppm	5.0 ppm

**3 HAZARDS IDENTIFICATION****\*\*\* EMERGENCY OVERVIEW \*\*\***

Black Granule And With Slightly Phenolic Odor.

Avoid Inhalation And Skin Contact

Prolong Exposure May Cause Irritation To Skin, Eyes And Respiratory Tract.

Not ordinarily An Emergency Problem For Prolong Exposure.

Water, Sand, Carbon Dioxide Or Foam Can Be Used On Fires.

**6 ACCIDENTAL RELEASE MEASURES**

Carefully Sweep Up Or Vacuum Spills And Place It In A Waste Container With Proper Personal Protective Equipment. Avoid Raising Dust. Vacuum Cleaning Is Preferred So As To Minimise Dust.

**7 HANDLING AND STORAGE**

**HANDLING:** Keep Container Closed. When Handling, Avoid Eye Contact And Breathing Dusts If Generated. Use Good House Keeping Practices To Prevent The Accumulation Of Dust. After Using This Material, Wash Hands.

**SPECIAL MIXING:** Resin Will Polymerise Exothermically At Temperature In Excess Of 40°C

**STORAGE:** Store In Cool And Dry Place To Avoid Effects Of Heat And Moisture. Exposure To High Temperature And/Or Moisture Causes Resin Agglomeration.

**8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Provide General And/Or Local Exhaust Ventilation To Control Airborne Levels Below The Exposure Guidelines.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

**RESPIRATORY PROTECTION:** Wear A Safety Mask To Protect From Dust.

**EYE PROTECTION:** Wear Safety Glasses With Side Shields Or Goggles.

**SKIN / BODY PROTECTION:** Wear Clean Body-Covering Clothing. Wear Cloth Or Rubber Gloves.

**OTHER PROTECTIVE EQUIPMENT:** Eye Wash Facility Should Be In Close Proximity (ANSI Z358.1 - 1981).

**9 PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE AND COLOUR:** Granular Material, Black.

**PHYSICAL STATE:** Solid.

**ODOR:** Slight Phenolic Odor.

**VAPOR PRESSURE:** Not Applicable.

**VAPOR DENSITY:** Not Applicable.

**SOLUBILITY IN WATER:** Insoluble In Water.

**SPECIFIC GRAVITY:** 1.42 - 1.47

**SOFTENING POINT:** 60 - 90°C

**MELTING POINT:** Not Applicable.

**BOILING POINT:** Not Applicable.

**pH Value:** 9 - 11 @100gm/l

**10 STABILITY AND REACTIVITY****CHEMICAL STABILITY (CONDITION TO AVOID):**

Avoid Exposing To High Temperature And/Or Moisture And Dust Buildup In The Manufacturing Areas.

**INCOMPATIBILITY (SPECIFIC MATERIALS TO AVOID):**

Avoid Acids And/Or Alkaline.

**HAZARDOUS DECOMPOSITION PRODUCTS:**Carbon Dioxide (CO<sub>2</sub>) And Some Carbon Monoxide (CO), Traces Of Phenol Vapour And Ammonia Gas.**HAZARDOUS POLYMERISATION:**

Will Not Occur.

**11 TOXICOLOGICAL INFORMATION**

Phenol (CAS No.: 108-95-2)	ACUTE ORAL LD <sub>50</sub> (Rat):	317 mg/kg
	ACUTE INHALATION LD <sub>50</sub> (Rat):	316 mg/m <sup>3</sup>
Zinc Stearate (CAS No.: 557-05-1)	ACUTE ORAL LD <sub>50</sub> (Rat):	10 gm/kg

**12 ECOLOGICAL INFORMATION**

No Information Available.

**13 DISPOSAL CONSIDERATIONS**

Dispose Of Materials To Be In Compliance With Local Government Regulations.

**14 TRANSPORT INFORMATION**

Not A Hazardous Material For DOT (Department Of Transportation) Shipping.

**15 REGULATORY INFORMATION**

TOXIC SUBSTANCES CONTROL ACT: The Ingredients Of This Product Are All On The 8(b) Inventory List.

**16 OTHER INFORMATION**

PERMISSIBLE CONCENTRATION REFERENCES: ACGIH Threshold Limit Values (TLVs) For Chemical Substances And Physical Agents.  
OSHA Standard 29 CFR 1910.1000

HMS RATINGS: HEALTH 1  
FIRE 1  
REACTIVITY 0

**ISSUED BY: SUMDUREZ SINGAPORE PTE LTD DEPARTMENT: EH&S**

The Information Presented Herein, While Not Guaranteed, Was Prepared By Competent Technical Personnel For Your Reference And Is True And Accurate To The Best Of Our Knowledge. It Is Given In Good Faith. No Warranty Or Guaranty, Express Or Implied, Is Made Regarding Performance, Stability Or Otherwise. This Information Is Not Intended To Be For All - Inclusive As To The Manner And Conditions Of Use, Handling And Storage. Following Of Safety Procedures During Handling And Use Remains The Responsibility Of The Recipient / Customer.

**POTENTIAL HEALTH EFFECTS:**

**EYE:** Dust May Cause Irritation Or Cornea Injury Due To Mechanical Action.

**SKIN:** Frequent Or Prolong Exposure May Cause Skin Irritation.

**INHALATION:** Dusts May Be Irritating To The Respiratory Tract.

**INGESTION:** This Product May Cause Gastrointestinal Irritation.

**CHRONIC EFFECTS / CARCINOGENICITY:**

Prolonged Or Repeated Contact May Cause Dermatitis, Skin Darkening, Kidney, Liver, Neurological And Heart Effects.  
Repeated Breathing Of Dust Or Vapors May Reduce Lung Function.

**4 FIRST AID MEASURES**

**EYE:** Don't Let The Victim Rub His/Her Eyes. Flush Eyes With Large Amounts Of Clean Water Immediately And Continuously For At Least 15 minutes.  
IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

**SKIN:** Wash The Affected Area Under Running Water With Soap.

**INHALATION:** Remove To Fresh Air. If Not Breathing, Give Mouth Resuscitation. If Breathing Is Difficult, Given Oxygen.  
GET MEDICAL ATTENTION.

**INGESTION:** Rinse Mouth With Water. Drink Large Quantities Of Water, And Then Induce Vomiting By Having Patient Tickle Back Of Throat With Finger.

**NOTES TO PHYSICIANS:** Treat Symptomatically.  
Treatment May Vary With Condition Of Victim And Specifics Of Incident.

**5 FIRE FIGHTING MEASURES****FLAMMABLE PROPERTIES:**

**FLASH POINT (°C/°F):** Not Determined (METHOD USED: Not applicable)

**AUTO IGNITION (°C/°F):** Not Determined

**TEMPERATURE (°C/°F):** Not Determined

**FLAMMABLE LIMITS:** Lower FL: Not Determined Upper FL: Not Determined

**EXTINGUISHING MEDIA:** Use Water, Dry Chemical, Halon, Alcohol Foam, Carbon Dioxide Or Sand.

**FIRE & EXPLOSION HAZARDS (NORMAL):** Dense Smoke Emitted When Burned Without Sufficient Oxygen And Hazardous Decomposition Products Are Carbon Dioxide (CO<sub>2</sub>) And Some Carbon Monoxide (CO).

**FIRE & EXPLOSION HAZARDS (UNUSUAL):** Explosive Hazard. Organic Dust Can Be Explosive When Ideal Conditions Of Concentration, Humidity And Source Are Met.

**PROTECTION (EQUIPMENT) OF FIREFIGHTERS:** Wear Full Bunker Gear Including A Positive Pressure Self-Contained Breathing Apparatus Approved By MSHA / NIOSH In Any Closed Space. Do Not Inhale Gases.