

Prepared according to 29 CFR 1910.1200

 Date prepared: **JUNE 2000**
 Date revised: **JANUARY 2005**

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 MSDS No 5.1.1.A1

Section I
IDENTITY: *As Used on Label and List:* **VAPORTIGHT COAT®-SG2 "A-COMPONENT"**
Chemical Characterization: **EPOXY RESIN (IRRITANT)**

 GROUND ZERO ELECTROSTATICS
 4916 26TH STREET WEST SUITE 100
 BRADENTON, FLORIDA 34201

 24 hr Emergency Phone: Chem-Tel **(800) 255-3924**
 Information Phone No: **(877) 463-9376**
Section II - Hazardous Ingredients/Identity Information

| HAZARDOUS COMPONENTS | CAS NUMBER | OSHA PEL | ACGIH TLV | WEIGHT % |
|-------------------------------------|-------------------|-------------------|-------------------|----------------|
| Bisphenol A Epichlorhydrin | 25068-38-6 | Not Estab. | Not Estab. | 10-25% |
| 1,6-Hexandioldiglycidylether | 16096-31-4 | Not Estab. | Not Estab. | 2.5-10% |

Section III - Physical/Chemical Characteristics

| | | | |
|--------------------------|---|---------------------------------------|------------------------------|
| Boiling Point: | Not Determined | Specific Gravity: (BULK DENSITY) | 2.14 g/cm³ |
| Vapor Pressure (mm Hg.): | 0.1 hPa | Melting Point: | Not Determined |
| Vapor Density (AIR = 1): | N.A. | Evaporation Rate (Butyl Acetate = 1): | N.A. |
| Solubility in Water: | Not Miscible | pH-value: | 10 at 20°C (68° F) |
| Appearance and Odor: | Viscosity: 16000 mPas at 20°C (16000 CPS at 68°F) WHITE LIQUID – MILD CHARACTERISTIC ODOR <i>Note: Mix in a well ventilated area or when feasible, outdoors. Odor normally disappears within 24 hours after mixing with B-Component (hardener).</i> | | |

Section IV - Fire and Explosion Hazard Data

| | | | | | | | |
|-------------------------------------|--|-------------------|-------------|------|------------|------|------------|
| Flash Point (Method used): | >100° C (>212° F) | Flammable Limits: | NONE | LEL: | N/A | UEL: | N/A |
| Extinguishing Media: | CO₂, EXTINGUISHING POWDER OR WATER FOG | | | | | | |
| Special Fire Fighting Procedures: | NONE, IF HANDLED AND STORED ACCORDING TO INSTRUCTIONS | | | | | | |
| Unusual Fire and Explosion Hazards: | NONE | | | | | | |

Section V - Reactivity Data

| | | |
|--|-----------------------------------|----------------------------------|
| Stability: Unstable: | Stable: X | Conditions to Avoid: NONE |
| Incompatibility (Materials to Avoid): | STRONG OXIDIZING AGENTS | |
| Hazardous Decomposition or Byproducts: | CARBON MONOXIDE, ALDEHYDES | |
| Hazardous Polymerization: May Occur: | Will Not Occur: X | Conditions to Avoid: |

Section VI - Health Hazard Data

| | | | |
|-------------------------------------|--|------------------------------|-----------------------------|
| Route(s) of Entry: | Inhalation?: N/A | Skin?: X | Ingestion?: X |
| Health Hazards (Acute and Chronic): | WHEN HANDLED UNDER NORMAL CONDITIONS, VAPORTIGHT COAT®-SG2 "A-COMPONENT" IS NOT, TO THE BEST OF OUR KNOWLEDGE AND EXPERIENCE, TOXIC. LONG TERM EXPOSURE CAN CAUSE IRRITATIONS TO THE SKIN AND MUCOUS MEMBRANES. | | |
| Carcinogenicity: N/A | NTP?: -NO | IARC Monographs?: -NO | OSHA Regulated?: -NO |

Signs and Symptoms of Exposure: **OVEREXPOSURE CAN LEAD TO CNS DEPRESSION, KIDNEY AND LIVER CHANGES, AND POSSIBLE ALLERGIC SKIN REACTIONS.**

Medical Conditions - Generally Aggravated by Exposure: **ALLERGY, ECZEMA, OR SKIN CONDITIONS**

Emergency and First Aid Procedures:

SKIN: **AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH SOAP & PLENTY OF WATER. REMOVE HEAVILY SOILED CLOTHING.**

EYES: **IN CASE OF CONTACT WITH THE EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER (10 - 15 MIN.) AND CONSULT A PHYSICIAN.**

INGESTION: **DO NOT INDUCE VOMITTING. RINSE MOUTH AND DRINK PLENTY OF WATER IN SMALL SIPS. CONSULT IMMEDIATELY A PHYSICIAN.**

INHALATION: **MOVE TO FRESH AIR IF FEELING ILL OR EXPERIENCING TROUBLE WITH BREATHING. CONSULT PHYSICIAN IF PROBLEMS PERSIST.**

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled:

CONTAIN AND COLLECT SPILLAGE WITH NON-COMBUSTIBLE, ABSORBENT MATERIALS, I.E. SAND, EARTH, VERMICULITE, DIATOMACEOUS EARTH, UNIVERSAL BINDERS, SAWDUST, AND PLACE IN CONTAINER FOR DISPOSAL. EMERGENCY PROCEDURES ARE NOT REQUIRED.

Waste Disposal Method: **DISPOSE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.**

Ecological Information: **DO NOT ALLOW PRODUCT TO REACH GROUND WATER, BODIES OF WATER, OR SEWAGE SYSTEMS.**

Precautions to Be Taken in Handling and Storing:

AVOID CONTACT WITH SKIN AND EYES. OBSERVE NORMAL PRECAUTIONS WHEN HANDLING WITH CHEMICALS.

Other Precautions: **NONE - NO DANGEROUS MATERIALS ARE RELEASED. STORE CONTAINERS TIGHTLY CLOSED IN A COOL (FROST FREE), WELL VENTILATED PLACE.**

Section VIII - Control Measures

Respiratory Protection (*Specify Type*): **NONE, BUT AVOID BREATHING VAPORS IF POSSIBLE.**

Ventilation: Local Exhaust: **PROVIDE GOOD VENTILATION.** Special: **NONE**
Mechanical (*General*): **RECOMMENDED** Other: **NONE**

Protective Gloves: **RUBBER OR NEOPRENE** Eye Protection: **SAFETY GOGGLES**

Other Protective Clothing or Equipment: **STANDARD WORK CLOTHING**

Work/Hygienic Practices: **WASH HANDS BEFORE BREAKS AND AFTER WORK, AND BEFORE EATING, DRINKING OR SMOKING.**

Section IX - Shipping Information

DOT (Domestic Surface) Hazard Class or Division: **NOT REGULATED**
IMO (Ocean) Hazard Class or Division: **9 UN 3082 Packaging Group III**
ICAO (Air) Hazard Class or Division: **NOT REGULATED**

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, expressed or implied, and we assume no responsibility for any loss, damage, expense, direct or consequential, arising from their use.



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Date revised: **JANUARY 2005**Page 1 of 2
MSDS No 5.1.1.B1**Section I****IDENTITY:** *As Used on Label and List:* **VAPORTIGHT COAT®-SG2 "B-COMPONENT"**
Chemical Characterization: **EPOXY HARDENER (CORROSIVE)**GROUND ZERO ELECTROSTATICS
4916 26TH STREET WEST SUITE 100
BRADENTON, FLORIDA 3420124 hr Emergency Phone: Chem-Tel
Information Phone No:**(800) 255-3924**
(877) 463-9376**Section II - Hazardous Ingredients/Identity Information**

| HAZARDOUS COMPONENTS | CAS NUMBER | OSHA PEL | ACGIH TLV | WEIGHT % |
|--|-------------------|------------|------------|----------------|
| Isophoronediamine (3-aminomethyl-3,5,5-trimethylcyclohexylamine) | 2855-13-2 | N/A | N/A | 50-100% |
| Naphtha, hydrodesulfurized, heavy | 64742-48-9 | N/A | N/A | 25-50% |
| 2,4,6-Tris-(dimethylaminomethyl)phenol | 90-72-2 | N/A | N/A | 2.5-10% |

Section III - Physical/Chemical Characteristics

| | | | |
|--------------------------|----------------------|---------------------------------------|--|
| Boiling Point: | 100°C (212°F) | Specific Gravity: (BULK DENSITY) | 0.892 g/cm³ |
| Vapor Pressure (mm Hg.): | N.A. | Melting Point: | Not Determined |
| Vapor Density (AIR = 1): | N.A. | Evaporation Rate (Butyl Acetate = 1): | N.A. |
| Solubility in Water: | Not Miscible | pH-value: | 14 at 20°C (68° F) |
| | | Viscosity: | 24 mPas at 20°C (24 CPS at 68° F) |

Appearance and Odor: **YELLOWISH LIQUID – CHARACTERISTIC ODOR (AMINE LIKE)***Note: Mix in a well ventilated area or when feasible, outdoors. Odor diminishes significantly when mixed with resin (A-Component) and smells like paint. Odor normally disappears within 24 hours.***Section IV - Fire and Explosion Hazard Data**Flash Point (Method used): **77°C (171°F)** Flammability Limits : **380°C (716°F)** LEL: **N/A** UEL: **N/A**
Product is not self-ignitingExtinguishing Media: **FOAM, ALCOHOL FOAM, CO₂, EXTINGUISHING POWDER OR WATER FOG. DO NOT USE DIRECT WATER JET.**Special Fire Fighting Procedures: **WATER MAY CAUSE VIOLENT FROTHING IF SPRAYED DIRECTLY INTO BURNING LIQUID. WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS WITH FULL-FACE PIECE AND FULL PROTECTIVE CLOTHING.**Unusual Fire and Explosion Hazards: **DECOMPOSITION AND COMBUSTION PRODUCTS MAY BE TOXIC. TOXIC FUMES MAY BE RELEASED IN FIRE OR EXTREME HEAT SITUATIONS.****Section V - Reactivity Data**Stability: Unstable: Stable: **X** Conditions to Avoid: **HEAT, SPARKS, OPEN FLAME**
Incompatibility (Materials to Avoid): **STRONG OXIDIZING AGENTS**
Hazardous Decomposition or Byproducts: **CARBON MONOXIDE, CARBON DIOXIDE, HYDROCARBON FRAGMENTS**
Hazardous Polymerization: May Occur: Will Not Occur: **X** Conditions to Avoid:**Section VI - Health Hazard Data**Route(s) of Entry: Inhalation?: **X** Skin?: **X** Ingestion?: **X**Health Hazards (Acute and Chronic): **CORROSIVE. CAN BE CORROSIVE TO SKIN. CAN CAUSE RESPIRATORY TRACT IRRITATION, EYE DAMAGE, GASTROINTESTINAL TRACT DAMAGE. CAN CAUSE NERVOUS SYSTEM EFFECTS AND SKIN SENSITIZATION.**Carcinogenicity: **N/A** NTP?: **-NO** IARC Monographs?: **-NO** OSHA Regulated?: **-NO**Signs and Symptoms of Exposure: **OVEREXPOSURE CAN LEAD TO CNS DEPRESSION, KIDNEY AND LIVER CHANGES, AND POSSIBLE ALLERGIC SKIN REACTIONS.**

Medical Conditions - Generally Aggravated by Exposure: **ALLERGY, ECZEMA, OR SKIN CONDITIONS.**

Emergency and First Aid Procedures:

SKIN: **AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH SOAP & PLENTY OF WATER. DO NOT USE THINNER OR SOLVENTS FOR REMOVAL. REMOVE HEAVILY SOILED CLOTHING.**

EYES: **IN CASE OF CONTACT WITH THE EYES, RINSE EYES THROUGH OPEN EYE LIDS IMMEDIATELY WITH PLENTY OF WATER (MINIMUM 15 MIN.) AND CONSULT A PHYSICIAN.**

INGESTION: **RINSE MOUTH AND DRINK PLENTY OF WATER IN SMALL SIPS. DO NOT INDUCE VOMITING. DO NOT DRINK MILK, ALCOHOL, OIL, ETC. CONSULT IMMEDIATELY A PHYSICIAN.**

INHALATION: **MOVE TO FRESH AIR IF FEELING ILL OR EXPERIENCING TROUBLE WITH BREATHING. CONSULT PHYSICIAN IF PROBLEMS PERSIST.**

NOTE: **ADVERSE REACTIONS MAY TAKE SEVERAL HOURS TO APPEAR. MEDICAL OBSERVATION SHOULD LAST AT LEAST 48 HRS AFTER ANY OF THE ABOVE INCIDENTS.**

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled:

REMOVE ALL SOURCES OF IGNITION. CONTAIN AND COLLECT SPILLAGE WITH NON-COMBUSTIBLE, ABSORBENT MATERIALS, I.E. SAND, EARTH, VERMICULITE, DIATOMACEOUS EARTH, UNIVERSAL BINDERS, SAWDUST, AND PLACE IN CONTAINER FOR DISPOSAL. EMERGENCY PROCEDURES ARE NOT REQUIRED.

Waste Disposal Method: **DISPOSE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.**

Ecological Information: **DO NOT ALLOW PRODUCT TO REACH GROUND WATER, BODIES OF WATER, OR SEWAGE SYSTEMS.**

Precautions to Be Taken in Handling and Storing:

AVOID CONTACT WITH SKIN AND EYES. OBSERVE NORMAL PRECAUTIONS WHEN HANDLING WITH CHEMICALS. DO NOT SMOKE.

Other Precautions: **STORE CONTAINERS TIGHTLY CLOSED IN A COOL (FROST FREE), WELL VENTILATED PLACE. KEEP OUT OF REACH OF CHILDREN.**

Section VIII - Control Measures

Respiratory Protection (Specify Type): **USE MSHA/NIOSH APPROVED RESPIRATOR IN POORLY VENTILATED AREAS**

Ventilation: Local Exhaust: **PROVIDE GOOD VENTILATION.** Special: **NONE**
Mechanical (General): **RECOMMENDED** Other: **NONE**

Protective Gloves: **RUBBER OR NEOPRENE (SOLVENT RESISTANT)** Eye Protection: **SAFETY GOGGLES**

Other Protective Clothing or Equipment: **STANDARD WORK CLOTHING**

Work/Hygienic Practices: **WASH HANDS BEFORE BREAKS AND AFTER WORK, AND BEFORE EATING, DRINKING OR SMOKING.**

Section IX - Shipping Information

DOT (Domestic Surface) Hazard Class or Division: **8 UN 2735 Packaging Group III**
IMO (Ocean) Hazard Class or Division: **8 UN 2735 Packaging Group III**
ICAO (Air) Hazard Class or Division: **8 UN 2735 Packaging Group III**

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, expressed or implied, and we assume no responsibility for any loss, damage, expense, direct or consequential, arising from their use.