

MATERIAL SAFETY DATA SHEET

<u>HMIS SYMBOL</u>		<u>HMIS</u>		<u>NFPA</u>
HEALTH	1	SEVERE	4	EXTREME
FLAMMABILITY	1	SERIOUS	3	HIGH
REACTIVITY	0	MODERATE	2	MODERATE
		SLIGHT	1	SLIGHT TOXICITY
		MINIMAL	0	INSIGNIFICANT

MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATIONS STANDSRD (HSC) 29 CFR 1910.1200

SECTION I - PRODUCT IDENTIFICATION

Product name / Identity : SUPER POXEE DP-2

A-1 Components Product Code #: Part of product # 6405

Product use : Resin

Chemical family : Epoxy resin

Supplier name and address :

Manufacturer name and address:

A-1 COMPONENTS CORP.
625 W. 18th Street
Hialeah, Florida 33010
Phone #: (305)885-1911

Same as
Supplier

Emergency Telephone Numbers, 24-hour : INFOTRAC 1-800-535-5053

WHMIS CLASS: D1B, D2A, D2B, F

SECTION II - HAZARDOUS INGREDIENTS/EXPOSURE GUIDE LINES

<u>Ingredients</u>	<u>CAS #</u>	<u>wt%</u>	<u>ACGIH</u>	<u>OSHA</u>	<u>UNITS</u>
Crystalline Silica	14808-60-7	1.0	TWA: 0.1 STEL: N/E	TWA: 10 10 STEL: N/E	mg/m3 mg/m3

SECTION III - PHYSICAL DATA

Physical State: Semi-solid

Odor and appearance: White paste, Minimal odor

Odor threshold: n/ap

Specific gravity: 1.45

Coefficient of water/oil distribution: n/av

Vapor pressure (mm Hg at 20°C): n/av

Boiling point: n/av

Freezing/Melting Point: n/av

pH: n/ap

Vapor density (Air = 1): n/av

Evaporation rate (BuAe = 1): n/av

Volatiles, wt. %: n/av

Volatile Organic Compounds VOC: n/av

Solubility in water: Practically insoluble

SECTION IV - FIRE AND EXPLOSION DATA

Conditions of flammability: Refer to flash point.

Means of extinction: CO₂, foam, dry chemicals (Class B)

Sensitivity to mechanical impact/static discharge: n/av

Flash point (Method): 254°C (490°F) (TOC)

Upper flammable limit %: n/ap

Lower flammable limit %: n/ap

Auto-ignition temperature: n/ap

Special Fire Fighting Procedures: Water should be used to keep fire containers cool.

Hazardous Combustion Products: Refer to "Hazardous Decomposition Products".

Unusual Fire and Explosion Hazards: Avoid heat, open flame and electric sparks.

SECTION V - REACTIVITY DATA

Stability: Stable under ambient pressure and temperature.

Hazardous polymerization: May occur. Masses of over 1 pound of product plus an Aliphatic Amine will cause polymerization with considerable heat.

Incompatible materials: Strong acids, amines, mercaptans, bases.

Conditions of reactivity: Excessive heat over long periods of time.

Hazardous decomposition products: carbon dioxide, carbon monoxide.

SECTION VI - TOXICOLOGICAL PROPERTIES

*** Routes of exposure and acute/chronic effects ***

Irritancy of Product: Inhalation, skin and eye contact, ingestion.

Inhalation: Harmful if inhaled. May cause chemical pneumonitis.

Skin: May irritate skin.

Eyes: May irritate eyes on contact.

Ingestion: Harmful or fatal if swallowed.

Chronic effects: Irritation of skin, eye, and mucous membrane. Dermatitis.

Carcinogenicity: Epichlorohydrin is listed by IARC as carcinogenic..

Reproductive effects, Teratogenicity, Mutagenicity: Mutagenic data on Epichlorohydrin.

Sensitization to Product: Skin.

Name of Toxicologically Synergistic Products: n/av

Medical Conditions Generally Aggravated by exposure: None.

LC 50: n/av

LD 50: n/av

SECTION VII FIRST AID

Inhalation: Remove to fresh air if breathing becomes difficult.

Eyes: Flush with clean water for at least 15 minutes. Seek medical attention if irritation persists.

Skin: Wash thoroughly with soap and water. Remove contaminated clothing.

Ingestion: Do not induce vomiting. Seek medical attention immediately.

SECTION VIM - PREVENTIVE MEASURES

Spill, leak or release: Clean all spills thoroughly. For small amounts, solvents like MEK or Acetone can be used. Scrape up and discard, then wash contaminated area thoroughly.

Waste disposal: Review federal, provincial and local government requirements prior to disposal. Container: should not be reused.

*** PROTECTIVE EQUIPMENT ***

Respiratory protection: NIOSH/MSHA respirator if necessary.

Ventilation: Local ventilation is sufficient. Vent cure ovens.

Protective gloves: Non-permeable.

Eye protection: Safety Goggles.

Other protective equipment: Apron to protect against skin and clothing contamination.

*** STORAGE & HANDLING ***

Storage and handling conditions :

Handling: Avoid contact with skin, eyes, and clothing. Avoid inhalation of vapors, particularly if heated. Keep containers closed when not in use. Keep away from incompatible materials.

Storage: Store in a cool, dry location. Store in original container.

Special Shipping Information: TDG - Epichlorohydrin, solution UN2023, class 6.1(9.2), P.G.II.

Additional notes or references :

Abbreviations:

n/av: not available

n/ap: not applicable

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

TLV: Threshold Limit Values

NIOSH: National Institute of Occupational Safety and Health

STEL: Short Term Exposure Limit

TDG: Transportation of Dangerous Goods Act.

References :

1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 1993-94.
2. International Agency for Research on Cancer Monographs, Supplement 7, 1988.
3. Canadian Centre for Occupational Health and Safety. Cheminfo Database.
4. N. Irving Sax. Dangerous Properties of Industrial Materials. Seventh Edition.

SECTION IX PREPARATION INFORMATION

Prepared by: A-1 COMPONENTS CORPORATION

Telephone #: (305) 885-1911

Preparation date: December 21, 2005

MATERIAL SAFETY DATA SHEET

<u>HMIS SYMBOL</u>		<u>HMIS</u>		<u>NFPA</u>
HEALTH	3	SEVERE	4	EXTREME
FLAMMABILITY	1	SERIOUS	3	HIGH
REACTIVITY	0	MODERATE	2	MODERATE
		SLIGHT	1	SLIGHT TOXICITY
		MINIMAL	0	INSIGNIFICANT

MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATIONS STANDSRD (HSC) 29 CFR 1910.1200

SECTION I - PRODUCT IDENTIFICATION

Product name / Identity : SUPER POXEE DP-2

A-1 Components Product Code #: Part of product # 6405

Product use: Epoxy hardener - Catalytic agent

Chemical family: Mixture

Supplier name and address:

Manufacturer name and address:

A-1 COMPONENTS CORP.

625 W. 18th Street
Hialeah, Florida 33010

Phone #: (305) 885-1911

Same as
Supplier

Emergency Telephone Numbers, 24-hour INFOTRAC 1-800-535-5053

WHMIS CLASS: D2B

SECTION II - HAZARDOUS INGREDIENTS/EXPOSURE GUIDE LINES

Ingredients	CAS #	wt.%	ACGIH		OSHA		UNITS SKIN
			TWA	STEL	TWA	Ceil	
Carbon Black	1333-86-4	<1	3.5	n/e	3.5	n/e	ma/m3
Crystalline silica	14808-60-7	<1	.1	n/e	10	n/e	ma/m3
Amine Compound	Proprietary	10	n/e	n/e	n/e	n/e	

SECTION III - PHYSICAL DATA

Physical State: Semi-solid

Odor and appearance: Black paste, Mercaptan odor

Odor threshold: n/ap

Specific gravity: 1.42

Coefficient of water/oil distribution: n/av

Vapor pressure (mm Hg at 20°C): <.01

Boiling point: 212°C

Freezing/Melting Point: n/av

pH: n/ap

Vapor density (Air = 1): 9

Evaporation rate (BuAe = 1): <.01

Volatiles, wt. %: n/av

Volatile Organic Compounds VOC: n/av

Solubility in water: insoluble

SECTION IV - FIRE AND EXPLOSION DATA

Conditions of flammability: Refer to flash point.

Means of extinction: Water spray, dry chemicals (Class B), alcohol foam, carbon dioxide

Sensitivity to mechanical impact/static discharge: n/av

Flash point (Method): 157°C (315°F) (COC)

Upper flammable limit %: n/ap

Lower flammable limit %: n/ap

Auto-ignition temperature: n/ap

Special Fire Fighting Procedures: Cool container with water spray. Use self-contained breathing apparatus in confined areas.

Hazardous Combustion Products: Refer to "Hazardous Decomposition Products".

Unusual Fire and Explosion Hazards: Avoid heat, open flame and electric sparks. Toxic fumes may be given off.

SECTION V - REACTIVITY DATA

Stability: Stable under ambient pressure and temperature. Hazardous polymerization will not occur.

Incompatible materials: Strong oxidizing agents, epoxy resins, amine mixtures.

Conditions of reactivity: n/av

Hazardous decomposition products: Oxides of carbon, sulfur, and nitrogen, H₂S.

SECTION VI - TOXICOLOGICAL PROPERTIES

*** Routes of exposure and acute/chronic effects ***

Irritancy of Product: Very slight to slight.

Inhalation: Harmful if inhaled.

Skin: May irritate skin.

Eyes: May irritate eyes on contact.

Ingestion: Harmful if swallowed.

Chronic effects: None known.

Carcinogenicity: None of the ingredients of this product is listed by IARC and ACGIH as carcinogenic.

Reproductive effects, Teratogenicity, Mutagenicity: n/av.

Sensitization to Product: None known.

Name of Toxicologically Synergistic Products: n/av

Medical Conditions Generally Aggravated by exposure: None.

LC50PPM: n/av

LD50PPM: n/av

SECTION VII FIRST - AID

Inhalation: Remove to fresh air if breathing becomes difficult.

Eyes: Flush with clean water for at least 15 minutes. Seek medical attention if irritation persists.

Skin: Wash thoroughly with soap and water.

Ingestion: Do not induce vomiting. Seek medical attention immediately.

SECTION VIII - PREVENTIVE MEASURES

Spill, leak or release: Clean all spills thoroughly. For small amounts, solvents like acetone can be used. Scrape up and discard, then wash contaminated area thoroughly.

Waste disposal: Review federal, provincial and local government requirements prior to disposal. Containers should not be reused.

*** PROTECTIVE EQUIPMENT ***

Respiratory protection: NIOSH/MSHA respirator if necessary.

Ventilation: Local ventilation is sufficient. Vent cure ovens.

Protective gloves: Non-permeable.

Eye protection: Safety Goggles.

Other protective equipment: Apron to protect against skin and clothing contamination.

*** STORAGE & HANDLING ***

Storage and handling conditions:

Handling: Avoid contact with skin, eyes, and clothing. Avoid inhalation of vapors, particularly if heated. Keep containers closed when not in use. Keep away from incompatible materials.

Storage: Store in a cool, dry location. Store in original container.

Special Shipping Information: TDG - Not Regulated for Transport

Additional notes or references:

Abbreviations:

n/av: not available

n/e: not established

n/ap: not applicable

TWA: time weighted average

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

TLV: Threshold Limit Values

NIOSH: National Institute of Occupational Safety and Health

STEL: Short Term Exposure Limit

TDG: Transportation of Dangerous Goods Act.

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SECTION IX PREPARATION INFORMATION

Prepared by: A-1 COMPONENTS INC.

Telephone #: (305) 885-1911

Preparation date: December 21, 2005

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MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATIONS STANDSRD (HSC) 29 CFR 1910.1200

SECTION I - PRODUCT IDENTIFICATION

Product name / Identity: SUPER POXEE CLEANER DP-2 PART OF PROD. CODE 6405

A-1 COMPONENTS Product Code #: Part of product # 6405

Product use : Epoxy Cleaner

Chemical family : Chlorinated hydrocarbon

Supplier name and address :

Manufacturer name and address:

A-1 COMPONENTS CORP.
625 W. 18th Street
Hialeah, Florida 33010
Phone #: (305) 885-1911

Same as
Supplier

Emergency Telephone Numbers, 24-hour: INFOTRAC 1-800-535-5053

WHMIS CLASS: D2A, P2B,
UN 1593 Class 6.1

SECTION II - HAZARDOUS INGREDIENTS

Ingredients	CAS#	wt.%	LD50 ppm (Rat, ihl.)	LC50 mg/kg (Rat, oral)
Methylene Chloride	175-09-2	100	88000 mg/m3/30min	1600

SECTION III - PHYSICAL DATA

Physical State: Liquid

Odor and appearance: Colorless, volatile liquid, penetrating ether-like odor.

Odor threshold: n/ap

Specific gravity: 1.310-1.322

Coefficient of water/oil distribution: n/av

Vapor pressure (mm Hg at 20°C): 9.67

Boiling point: 40.4°C

Freezing/Melting Point: -97°C

pH: n/ap

Vapor density (Air = 1): 2.9

Evaporation rate (BuAe = 1): 1.8

Volatiles, wt. %: 100

Volatile Organic Compounds VOC: n/av

Solubility in water: Slightly

SECTION IV - FIRE AND EXPLOSION DATA

Conditions of flammability: Nonflammable and nonexplosive in air.
Means of extinction: Water fog, CO₂, dry chemicals .
Sensitivity to mechanical impact/static discharge: n/av
Flash point (Method): 254°C (490°F) (TOC)
Upper flammable limit %: n/ap
Lower flammable limit %: n/ap
Auto-ignition temperature: 662°C
Special Fire Fighting Procedures: Self contained breathing apparatus with a full facepiece operated in pressure demand or other positive pressure mode.
Hazardous Combustion Products: Refer to "Hazardous Decomposition Products".
Unusual Fire and Explosion Hazards: n/av

SECTION V - REACTIVITY DATA

Stability: Stable under ambient pressure and temperature.
Incompatible materials: Avoid contact with aluminum.
Conditions of reactivity: n/av
Hazardous decomposition products: may form toxic materials such as Hydrogen Chloride, Phosgene, and oxides of carbon.

SECTION VI - TOXICOLOGICAL PROPERTIES

***Routes of exposure and acute/chronic effects ***

Exposure limit: TLV-TWA 50ppm, 174 mg/m³.
Irritancy of Product: Inhalation, skin and eye contact, ingestion.
Inhalation: Harmful if inhaled. May cause dizziness, fatigue, unconsciousness, Possible unconsciousness and even asphyxiation.
Skin: May irritate skin.
Eyes: May irritate eyes on contact.
Ingestion: Harmful or fatal if swallowed.
Chronic effects: Irritation to skin, eyes, and respiratory tract. Overexposure to component can raise the level of Carbon Monoxide in the blood causing Cardiovascular Stress. Also overexposure to material has been found to cause liver abnormalities and lung damage in laboratory animals.
Carcinogenicity: Listed by IARC and ACGIH as carcinogenic..
Reproductive effects, Teratogenicity, Mutagenicity: Mutagenic data on Epichlorohydrin.
Sensitization to Product: Skin.
Name of Toxicologically Synergistic Products: n/av
Medical Conditions Generally Aggravated by exposure: None.

SECTION VII FIRST AID

Inhalation: Remove to fresh air. If breathing becomes difficult administer oxygen. Keep person warm. Epinephrine and Ephedrine may affect heart.
Eyes: Flush with clean water for at least 15 minutes. Seek medical attention if irritation persists.
Skin: Wash thoroughly with soap and water. Remove contaminated clothing.
Ingestion: Do not induce vomiting. Seek medical attention or transport to emergency facility immediately.

SECTION VIII - PREVENTIVE MEASURES

Spill, leak or release: Absorb on paper, vermiculite, floor absorbent or other material and transfer to exhaust

hood. Eliminate all Ignition sources.

Waste disposal: Review federal, provincial and local government requirements prior to disposal. Containers should not be reused.

*** PROTECTIVE EQUIPMENT ***

Respiratory protection: Supplied respirator is advised on the absence of proper environmental control.

Ventilation: Local exhaust is recommended.

Protective gloves: use gloves: natural rubber, neoprene, etc.

Eye protection: Safety Goggles.

Other protective equipment: Apron to protect against skin and clothing contamination, impervious clothing and boots to prevent repeated or prolonged skin contact.

*** STORAGE & HANDLING ***

Storage and handling conditions:

Handling: Avoid contact with skin, eyes, and clothing. Use with adequate ventilation. Avoid inhalation of vapors. Keep containers closed when not in use. Keep away from incompatible materials.

Storage: Store in a cool, dry location. Store in original container.

Special Shipping Information: **FLAMMABLE, Class 3, UN1090, PGII.**

Additional notes or references :

Abbreviations:

n/av: not available

n/ap: not applicable

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

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Telephone #: (305) 885-1911

Preparation date: December 21, 2005