



## 1 Identification of substance

- **Product details**
- **Trade name:** 39747 Multi-Purpose Panel Adhesive
- **Article number:** 39747
- **Manufacturer/Supplier:**  
SEM Products Inc.  
651 Michael Wylie Dr.  
Charlotte, NC 28217  
(704)522-1006
- **Information department:**  
labsupport@sem.ws : SEM Products 651 Michael Wylie Dr. Charlotte, NC 28217 : phone 1-704-522-1006, M - TH 7am - 4pm EDT
- **Emergency information:** 24 HR EMERGENCY CHEMTREC 1-800-424-9300

## 2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

37244-96-5	NEPHELINE SYENITE Warning: ⚠ 3.3/2A, 3.8/3	10-25%
28064-14-4	BISPHENOL F EPOXY RESIN Warning: ⚠ 3.2/2, 3.3/2A, 3.4.S/1, 3.8/3	2.5-10%
163440-98-0	ELASTOMER MODIFIED DIGLYCIDAL ETHER Warning: ⚠ 3.2/2, 3.3/2A, 3.4.S/1, 3.8/3	2.5-10%
65997-17-3	Glass Warning: ⚠ 3.2/2, 3.3/2A, 3.8/3	2.5-10%
108-95-2	phenol Danger: ☠ 3.1.O/2, 3.1.D/2, 3.2/2, 3.3/2A, 3.4.S/1, 3.8/3; ☠ 3.4.R/1	2.5-10%
14228-73-0	CYCLOHEXANEDIMETHANOL DIGLYCIDAL ETHER Warning: ☠ 3.8/2; ⚠ 3.2/2, 3.3/2A, 3.4.S/1	2.5-10%
	Amine proprietary Warning: ⚠ 3.2/2, 3.3/2A, 3.8/3	2.5-10%
67762-90-7	FUMED SILICA Warning: ⚠ 3.3/2A, 3.8/3	2.5-10%
9046-10-0	POLYOXYPROPOLENEDIAMINE Danger: ☠ 3.1.O/3, 3.8/3; ☠ 3.2/1B	1-2.5%
111-40-0	2,2'-iminodiethylamine Danger: ☠ 3.1.O/3, 3.1.D/3, 3.4.S/1; ☠ 3.2/1B	1-2.5%
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane Danger: ☠ 3.1.O/2, 3.1.D/3, 3.1.I/3, 3.2/2, 3.3/2A, 3.8/3	≤1%
25338-55-0	(DIMETHYLAMINO)METHYLPHENOL Danger: ☠ 3.1.O/2, 3.1.D/2, 3.4.S/1, 3.8/3; ☠ 3.2/1B Warning: 2.6/4	≤1%

USA

(Contd. on page 2)

Trade name: 39747 Multi-Purpose Panel Adhesive

(Contd. of page 1)

### 3 Hazards identification

· **Hazard description:**



Toxic

· **Information pertaining to particular dangers for man and environment:**

The product has to be labelled due to the calculation procedure of international guidelines.

Toxic in contact with skin and if swallowed.

Causes burns.

Irritating to respiratory system.

May cause sensitisation by inhalation and skin contact.

· **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 1

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 2

Fire = 1

Reactivity = 0

· **GHS label elements**



**Danger**

3.1/3 - Toxic if swallowed.

3.1/3 - Toxic in contact with skin.

3.4/1 - May cause an allergic skin reaction.

3.8/3 - May cause respiratory irritation.



**Danger**

3.4/1 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.



**Danger**

3.2/1B - Causes severe skin burns and eye damage.

· **Prevention:**

Do not breathe dust/fume/gas/mist/vapours/spray.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

(Contd. on page 3)

**Trade name: 39747 Multi-Purpose Panel Adhesive**

(Contd. of page 2)

*Wear protective gloves/protective clothing/eye protection/face protection.*

*In case of inadequate ventilation wear respiratory protection.*

**· Response:**

*IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.*

*IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.*

*IF ON SKIN: Wash with plenty of soap and water.*

*IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.*

*IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.*

*IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.*

*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

*Immediately call a POISON CENTER or doctor/physician.*

*Call a POISON CENTER or doctor/physician if you feel unwell.*

*Specific treatment (see label).*

*Specific measures (see label).*

*Rinse mouth.*

*If skin irritation or rash occurs: Get medical advice/attention.*

*If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.*

*Remove/Take off immediately all contaminated clothing.*

*Wash contaminated clothing before reuse.*

**· Storage:**

*Store in a well-ventilated place. Keep container tightly closed.*

*Store locked up.*

**· Disposal:**

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

#### 4 First aid measures

**· General information:**

*Immediately remove any clothing soiled by the product.*

*In case of irregular breathing or respiratory arrest provide artificial respiration.*

**· After inhalation:**

*Supply fresh air and to be sure call for a doctor.*

*In case of unconsciousness place patient stably in side position for transportation.*

**· After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**· After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

**· After swallowing:**

*Do not induce vomiting; immediately call for medical help.*

*Drink copious amounts of water and provide fresh air. Immediately call a doctor.*

#### 5 Fire fighting measures

**· Suitable extinguishing agents:**

*CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*

**· Protective equipment:** No special measures required.

#### 6 Accidental release measures

**· Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

(Contd. on page 4)



Trade name: 39747 Multi-Purpose Panel Adhesive

(Contd. of page 3)

- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralizing agent.  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

## 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

### 108-95-2 phenol

PEL	19 mg/m <sup>3</sup> , 5 ppm Skin
REL	Short-term value: C60* mg/m <sup>3</sup> , C 15.6* ppm Long-term value: 19 mg/m <sup>3</sup> , 5 ppm *15-min; Skin
TLV	19 mg/m <sup>3</sup> , 5 ppm Skin; BEI

### 111-40-0 2,2'-iminodiethylamine

REL	4 mg/m <sup>3</sup> , 1 ppm Skin
TLV	4.2 mg/m <sup>3</sup> , 1 ppm Skin

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Avoid contact with the eyes and skin.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

(Contd. on page 5)

**Trade name: 39747 Multi-Purpose Panel Adhesive**

(Contd. of page 4)

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

· **General Information**

<b>Form:</b>	Liquid
<b>Color:</b>	According to product specification
<b>Odor:</b>	Characteristic

· **Change in condition**

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** 181°C (358°F)

· **Flash point:** 94°C (201°F)

· **Ignition temperature:** 595°C (1103°F)

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.  
In use, may form flammable/explosive vapour-air mixture.

· **Density at 20°C (68°F):** 1.05 g/cm<sup>3</sup>

· **Solubility in / Miscibility with**

**Water:** Not miscible or difficult to mix.

· **Solvent content:**

<b>Organic solvents:</b>	0.0 %
<b>VOC content:</b>	1.4 g/l / 0.01 lb/gl

(Contd. on page 6)

Trade name: 39747 Multi-Purpose Panel Adhesive

(Contd. of page 5)

· **Solids content:** 99.9 %

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

### 11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

#### 108-95-2 phenol

Oral	LD50	317 mg/kg (rat)
Dermal	LD50	850 mg/kg (rabbit)

· **Primary irritant effect:**

- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.

· **Sensitization:**

- Sensitization possible through inhalation.
- Sensitization possible through skin contact.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Toxic

Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

### 12 Ecological information

· **General notes:**

- Water hazard class 2 (Self-assessment): hazardous for water
- Do not allow product to reach ground water, water course or sewage system.
- Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- Danger to drinking water if even small quantities leak into the ground.

### 13 Disposal considerations

· **Product:**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 7)

Trade name: 39747 Multi-Purpose Panel Adhesive

(Contd. of page 6)

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

· **DOT regulations:**



- **Hazard class:** 8
- **Identification number:** UN2922
- **Packing group:** III
- **Proper shipping name (technical name):** C O R R O S I V E L I Q U I D , T O X I C , N . O . S .  
(POLYOXYPROPOLENEDIAMINE, phenol)
- **Label:** 8+6.1
- **Remarks:** ORM-D 49CFR § 173.154 b) Limited Quantities of Class 8

· **Land transport TDG (Canada) and ADR/RID (Europe):**



- **Hazard class:** 8 Corrosive substances
- **UN-Number:** 2922
- **Packaging group:** III
- **Label:** 8+6.1
- **Description of goods:** 2 9 2 2 C O R R O S I V E L I Q U I D , T O X I C , N . O . S .  
(POLYOXYPROPOLENEDIAMINE, phenol)

· **Maritime transport IMDG:**



- **IMDG Class:** 8
- **UN Number:** 2922
- **Label:** 8+6.1
- **Packaging group:** III
- **EMS Number:** F-A,S-B
- **Marine pollutant:** No
- **Propper shipping name:** C O R R O S I V E L I Q U I D , T O X I C , N . O . S .  
(POLYOXYPROPOLENEDIAMINE, phenol)

(Contd. on page 8)



**Trade name: 39747 Multi-Purpose Panel Adhesive**

(Contd. of page 7)

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 8
- **UN/ID Number:** 2922
- **Label:** 8+6.1
- **Packaging group:** III
- **Propper shipping name:** CORROSIVE LIQUID, TOXIC, N.O.S.  
(POLYOXYPROPOLENEDIAMINE, phenol)

· **UN "Model Regulation":** UN2922; CORROSIVE LIQUID, TOXIC, N.O.S.; 8 (6.1); III

## 15 Regulations

· **Sara**

· **Section 355 (extremely hazardous substances):**

108-95-2	phenol
107-15-3	ethylenediamine

· **Section 313 (Specific toxic chemical listings):**

163440-98-0	ELASTOMER MODIFIED DIGLYCIDAL ETHER
108-95-2	phenol
25338-55-0	(DIMETHYLAMINO)METHYLPHENOL
107-21-1	ethanediol
67-56-1	methanol

· **TSCA (Toxic Substances Control Act):**

108-95-2	phenol
111-40-0	2,2'-iminodiethylamine
112-24-3	3,6-diazaoctanethylenediamin
919-30-2	3-aminopropyltriethoxysilane
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane
616-47-7	1-methylimidazole
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine
140-31-8	2-piperazin-1-ylethylamine
1333-86-4	Carbon black
107-21-1	ethanediol
67-56-1	methanol
107-15-3	ethylenediamine
64-17-5	ethanol

· **Proposition 65**

· **Chemicals known to cause cancer:**

28064-14-4	BISPHENOL F EPOXY RESIN
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(Contd. on page 9)





**Trade name: 39747 Multi-Purpose Panel Adhesive**

(Contd. of page 8)

163440-98-0	ELASTOMER MODIFIED DIGLYCIDAL ETHER
1333-86-4	Carbon black
107-21-1	ethanediol

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

64-17-5 ethanol

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

108-95-2	phenol	D
107-15-3	ethylenediamine	D

· **IARC (International Agency for Research on Cancer)**

108-95-2	phenol	3
1333-86-4	Carbon black	2B

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

108-95-2	phenol	A4
1333-86-4	Carbon black	A4
107-21-1	ethanediol	A4
107-15-3	ethylenediamine	A4
64-17-5	ethanol	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

1333-86-4 Carbon black

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**

Toxic

· **Hazard-determining components of labelling:**

phenol  
BISPHENOL F EPOXY RESIN  
ELASTOMER MODIFIED DIGLYCIDAL ETHER  
CYCLOHEXANEDIMETHANOL DIGLYCIDAL ETHER  
2,2'-iminodiethylamine

· **Risk phrases:**

Toxic in contact with skin and if swallowed.  
Causes burns.  
Irritating to respiratory system.  
May cause sensitisation by inhalation and skin contact.

(Contd. on page 10)

**Trade name: 39747 Multi-Purpose Panel Adhesive**

(Contd. of page 9)

· **Safety phrases:**

*Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).*

*In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*

*Wear suitable protective clothing, gloves and eye/face protection.*

*In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).*

*This material and its container must be disposed of as hazardous waste.*

## 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Department issuing MSDS:** Environment protection department.

· **Contact:** Steve Gaver

· **Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*RID: Règlement internationale concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)*

*ICAO: International Civil Aviation Organization*

*ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)*

*GHS: Globally Harmonized System of Classification and Labelling of Chemicals*

*ACGIH: American Conference of Governmental Industrial Hygienists*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*VOC: Volatile Organic Compounds (USA, EU)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*