



USA

Reviewed on 01/28/2013

1 Identification of the substance/mixture and of the company/undertaking

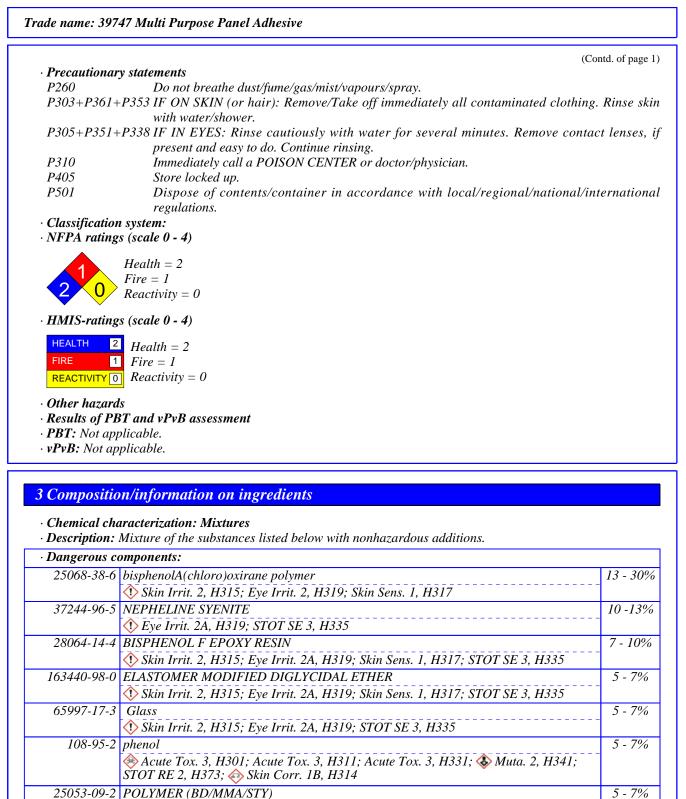
- · Product identifier
- · Trade name: 39747 Multi Purpose Panel Adhesive
- · Article number: 39747
- *Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.*
- Application of the substance / the preparation coating Epoxy Adhesive
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: SEM Products Inc. 1685 Overview Drive Rock Hill, SC 29730 803 207 8225
- Information department: cust_care@semproducts.com : SEM Products,Inc. 1685 Overview Dr. Rock Hill, SC 29730 : phone 1-800-831-1122, M - TH 7am - 4pm EDT
- Emergency telephone number: 24 HR EMERGENCY CHEMTREC 1-800-424-9300

2 Hazards identification

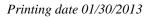
· Classification of the substance or mixture
GHS08 Health hazard
Muta. 2 H341 Suspected of causing genetic defects.
GHS05 Corrosion
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
GHS07
Skin Sens. 1 H317 May cause an allergic skin reaction.
 Label elements GHS label elements The product is classified and labelled according to the Globally Harmonized System (GHS). Hazard pictograms GHS05, GHS07, GHS08 Signal word Danger
• Hazard-determining components of labelling: bisphenolA(chloro)oxirane polymer phenol
BISPHENOL F EPOXY RESIN
POLYOXYPROPYLENEDIAMINE • Hazard statements
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
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🕦 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335





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14228-73-0	CYCLOHEXANEDIMETHANOL DIGLYCIDAL ETHER	5 - 7%
	🚸 STOT SE 2, H371; 🚸 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	-
	Amine proprietary	
	() Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	-
67762-90-7	FUMED SILICA	1.5 - 5%
	() Eye Irrit. 2A, H319; STOT SE 3, H335	-
9046-10-0	POLYOXYPROPYLENEDIAMINE	1.5 - 5%
	♦ Acute Tox. 3, H301; ♦ Skin Corr. 1B, H314; Eye Dam. 1; ♦ Acute Tox. 4, H332; STOT SE 3, H335	-
111-40-0	2,2'-iminodiethylamine	1-1.5%
	♦ Skin Corr. 1B, H314; () Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	_
112-24-3	3,6-diazaoctanethylenediamin	<i>≤1%</i>
	♦ Skin Corr. 1B, H314; ♦ Acute Tox. 4, H312; Skin Sens. 1, H317	
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	<i>≤1%</i>
		_
25338-55-0	(DIMETHYLAMINO)METHYLPHENOL	<u><</u> 1%
	 ♦ Acute Tox. 2, H300; Acute Tox. 2, H310; ♦ Skin Corr. 1B, H314; Eye Dam. 1; ♦ Skin Sens. 1, H317; STOT SE 3, H335; H227 	
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	<u><</u> 1%
	♦ Skin Corr. 1B, H314; Eye Dam. 1; ♦ Skin Sens. 1, H317	
140-31-8	2-piperazin-1-ylethylamine	<u>≤</u> 1%
	♦ Skin Corr. 1B, H314; ♦ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; H227	

4 First aid measures

· Description of 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.

- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

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5 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures* Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

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.

Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

7 Handling and storage

· Handling:

- · Precautions for safe handling
- No special measures required.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

• Information about protection against explosions and fires: No special measures required.

- · Conditions for safe storage, including any incompatibilities
- · 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.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

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

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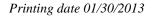
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	(Contd. of page
	l parameters
	onents with limit values that require monitoring at the workplace:
	-2 phenol
PEL()	19 mg/m³, 5 ppm Skin
REL ()	Short-term value: C60* mg/m³, C 15.6* ppm Long-term value: 19 mg/m³, 5 ppm *15-min; Skin
TLV()	19 mg/m³, 5 ppm Skin; BEI
111-40	-0 2,2'-iminodiethylamine
REL()	4 mg/m ³ , 1 ppm Skin
TLV()	4.2 mg/m³, 1 ppm Skin
Ingred	ients with biological limit values:
108-95	-2 phenol
Additio Exposi	250 mg/g creatinine Medium: urine Time: end of shift Parameter: Phenol with hydrolysis (background, nonspecific) onal information: The lists that were valid during the creation were used as basis. ure controls
	al protective equipment:
	al protective and hygienic measures: way from foodstuffs, beverages and feed.
	iately remove all soiled and contaminated clothing.
	nands before breaks and at the end of work.
	protective clothing separately.
	contact with the eyes and skin.
	ing equipment:
respira	e of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure u atory protective device that is independent of circulating air. t ion of hands:
	Protective gloves
Due to chemic Selectio	ove material has to be impermeable and resistant to the product/ the substance/ the preparation. missing tests no recommendation to the glove material can be given for the product/ the preparation/ t al mixture. on of the glove material on consideration of the penetration times, rates of diffusion and the degradation al of gloves
The sel varies j	lection of the suitable gloves does not only depend on the material, but also on further marks of quality a from manufacturer to manufacturer. As the product is a preparation of several substances, the resistan glove material can not be calculated in advance and has therefore to be checked prior to the application.

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· Penetration time of glove material

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

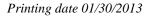
· Eye protection:



Tightly sealed goggles

Information on basic physical and	chemical properties
General Information Appearance:	
Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	181 °C
Flash point:	95 °C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	595 °C
Decomposition temperature:	Not determined.
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.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density at 20 °C:	$1.05 \ g/cm^3$
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.

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of page 6)
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10 Stability and reactivity

· Reactivity

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- \cdot Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

· 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.

· Carcinogenic categories

· IARC (Inte	rnational Agency for Research on Cancer)	
108-95-2	phenol	3
1333-86-4	Carbon black	2B
64-17-5	ethanol	1
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 \cdot NTP (National Toxicology Program)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- *Persistence and degradability No further relevant information available.*
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- \cdot **Mobility in soil** No further relevant information available.
- \cdot Additional 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.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

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

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

· UN-Number · DOT, ADR, IMDG, IATA	UN2922
\cdot UN proper shipping name	
· DOT, IMDG, IATĂ	CORROSIVE LIQUID, TOXIC, N.O.S
	(POLYOXYPROPYLENEDIAMINE, phenol)
·ADR	2922 CORROSIVE LIQUID, TOXIC, N.O.S
	(POLYOXYPROPYLENEDIAMINE, phenol), ENVIRONMENTALL
	HAZARDOUS

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Transport hazard class(es)	
DOT	
CORROSIVE 6	
Class	8 Corrosive substances.
Label	8+6.1
ADR	
Class	8 Corrosive substances
Label	8+6.1
IMDG, IATA	
Class Label	8 Corrosive substances. 8+6.1
	8+0.1
Packing group DOT, ADR, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
Special marking (ADR):	Symbol (fish and tree)
Special precautions for user	Warning: Corrosive substances
EMS Number:	F-A,S-B
Segregation groups	Alkalis
Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	of Not applicable.
Transport/Additional information:	
DOT	
Remarks	ORM-D CFR49-173,.150,156,306
UN ''Model Regulation'':	UN2922, CORROSIVE LIQUID, TOXIC, N.O. (POLYOXYPROPYLENEDIAMINE, phenol), ENVIRONMENTALI HAZARDOUS, 8 (6.1), III

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15 Regulatory information

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· Safety, health · Sara	h and environmental regulations/legislation specific for the substance or mixture
· Section 355 (extremely hazardous substances):
108-95-2 phe	enol
107-15-3 eth	ylenediamine
· 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):
25068-38-6	bisphenolA(chloro)oxirane polymer
28064-14-4	BISPHENOL F EPOXY RESIN
163440-98-0	ELASTOMER MODIFIED DIGLYCIDAL ETHER
65997-17-3	Glass
68082-29-1	FATTY ACID POLYMERS
108-95-2	phenol
25053-09-2	POLYMER (BD/MMA/STY)
14228-73-0	CYCLOHEXANEDIMETHANOL DIGLYCIDAL ETHER
68683-29-4	ELASTOMERIC POLYMER
67762-90-7	FUMED SILICA
9046-10-0	POLYOXYPROPYLENEDIAMINE
111-40-0	2,2'-iminodiethylamine
	3,6-diazaoctanethylenediamin
919-30-2	3-aminopropyltriethoxysilane
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane
· Proposition 6	<i>i</i> 5
· Chemicals kn	nown to cause cancer:
25068-38-6	bisphenolA(chloro)oxirane polymer
28064-14-4	BISPHENOL F EPOXY RESIN
163440-98-0	ELASTOMER MODIFIED DIGLYCIDAL ETHER
1333-86-4	Carbon black
107-21-1	ethanediol
· Chemicals kn	<i>nown to cause reproductive toxicity for females:</i>
None of the ir	ngredients is listed.
· Chemicals kn	nown to cause reproductive toxicity for males:
	ngredients is listed.
· Chemicals kn	nown to cause developmental toxicity:
64-17-5 etha	
	(Control



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	categories	(Contd. of page 10
Cancerogenity c EPA (Environm	nental Protection Agency)	
108-95-2 pheno		1
107-15-3 ethyle		 D
	d Limit Value established by ACGIH)	_
108-95-2 phen	• •	A4
1333-86-4 Carb		A4
107-21-1 etha	nediol	A4
107-15-3 ethyl	lenediamine	A4
64-17-5 etha		A3
NIOSH-Ca (Na	tional Institute for Occupational Safety and Health)	
1333-86-4 Carb		
67-56-1 meth	hanol	
OSHA-Ca (Occ	upational Safety & Health Administration)	
None of the ingr		
Hazard pictogra Signal word Dat		d System (GHS).
Hazard pictogra Signal word Dar Hazard-determi bisphenolA(chlo phenol BISPHENOL F POLYOXYPROP Hazard statemen	ams GHS05, GHS07, GHS08 inger ining components of labelling: pro)oxirane polymer EPOXY RESIN PYLENEDIAMINE ints	d System (GHS).
Hazard pictogra Signal word Dat Hazard-determi bisphenolA(chlo phenol BISPHENOL F POLYOXYPRON Hazard statemen H314 Causes se	ams GHS05, GHS07, GHS08 inger ining components of labelling: pro)oxirane polymer EPOXY RESIN PYLENEDIAMINE ints evere skin burns and eye damage.	d System (GHS).
Hazard pictogra Signal word Dat Hazard-determi bisphenolA(chlo phenol BISPHENOL F POLYOXYPROI Hazard statemen H314 Causes se H317 May cause	ams GHS05, GHS07, GHS08 inger ining components of labelling: pro)oxirane polymer EPOXY RESIN PYLENEDIAMINE ints	d System (GHS).
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Hazard pictogra Signal word Dat Hazard-determi bisphenolA(chlo phenol BISPHENOL F POLYOXYPROH Hazard statemen H314 Causes se H317 May cause H341 Suspected Precautionary se P260	ams GHS05, GHS07, GHS08 inger ining components of labelling: pro)oxirane polymer EPOXY RESIN PYLENEDIAMINE evere skin burns and eye damage. evere skin burns and eye damage. e an allergic skin reaction. I of causing genetic defects. statements Do not breathe dust/fume/gas/mist/vapours/spray. 353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clo	• • •
Hazard pictogra Signal word Dat Hazard-determi bisphenolA(chlo phenol BISPHENOL F J POLYOXYPROH Hazard statemen H314 Causes se H317 May cause H341 Suspected Precautionary se P260 P303+P361+P3	ams GHS05, GHS07, GHS08 inger ining components of labelling: pro)oxirane polymer EPOXY RESIN PYLENEDIAMINE ints evere skin burns and eye damage. te an allergic skin reaction. I of causing genetic defects. statements Do not breathe dust/fume/gas/mist/vapours/spray. 353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clowith water/shower. 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove of the several minutes and the several minutes. Remove of the several minutes and the several minutes. Remove of the several minutes and the seve	thing. Rinse ski
Hazard pictogra Signal word Dat Hazard-determi bisphenolA(chlo phenol BISPHENOL F J POLYOXYPROH Hazard statemen H314 Causes se H317 May cause H341 Suspected Precautionary se P260 P303+P361+P3	ams GHS05, GHS07, GHS08 inger ining components of labelling: pro)oxirane polymer EPOXY RESIN PYLENEDIAMINE were skin burns and eye damage. e an allergic skin reaction. I of causing genetic defects. statements Do not breathe dust/fume/gas/mist/vapours/spray. 353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clo with water/shower.	thing. Rinse ski
Hazard pictogra Signal word Dat Hazard-determi bisphenolA(chlo phenol BISPHENOL F J POLYOXYPROH Hazard statemen H314 Causes se H317 May cause H341 Suspected Precautionary si P260 P303+P361+P3 P305+P351+P3	ams GHS05, GHS07, GHS08 inger ining components of labelling: pro)oxirane polymer EPOXY RESIN PYLENEDIAMINE ints evere skin burns and eye damage. e an allergic skin reaction. I of causing genetic defects. statements Do not breathe dust/fume/gas/mist/vapours/spray. 353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clowith water/shower. 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove of present and easy to do. Continue rinsing.	thing. Rinse ski
Hazard pictogra Signal word Dat Hazard-determi bisphenolA(chlo phenol BISPHENOL F J POLYOXYPROH Hazard statemen H314 Causes set H317 May cause H317 May cause H341 Suspected Precautionary st P260 P303+P361+P3 P305+P351+P3 P310	ams GHS05, GHS07, GHS08 inger ining components of labelling: pro)oxirane polymer EPOXY RESIN PYLENEDIAMINE mts evere skin burns and eye damage. e an allergic skin reaction. I of causing genetic defects. statements Do not breathe dust/fume/gas/mist/vapours/spray. 353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clo with water/shower. 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove of present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.	thing. Rinse ski

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:

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

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(Contd. of page 11) ICAO: International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent