Printing date 06/01/2005



Page 1/7

50-100%

10-25%

 $\leq 2.5\%$

Reviewed on 09/08/2004

1 Identification of substance

- · Product details
- · Trade name: <u>38371;38374 SEM Solve</u>
- Article number: 38371;38374
- Manufacturer/Supplier: SEM Products, Inc. 651 Michael Wylie Dr. Charlotte, NC 28217 USA (704)522-1006

· Information department: 24HR EMERGENCY CHEMTREC 800-424-9300

2 Composition/Data on components

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

· Dangerous components:

64742-89-8 Solvent naphtha (petroleum), light aliph.

1330-20-7 xylene

108-88-3 toluene

3 Hazards identification

· Hazard description:



Harmful Highly flammable

Information pertaining to particular dangers for man and environment: The product has to be labelled due to the calculation procedure of international guidelines. Highly flammable. Harmful by inhalation and in contact with skin. Irritating to eyes, respiratory system and skin. Harmful: may cause lung damage if swallowed. Classification system: The classification was made according to the latest editions of international substances lis

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)



· HMIS-ratings (scale 0 - 4)

HEALTH	*2	Health = *2
FIRE	3	Fire = 3
REACTIVIT	TY 0	Reactivity = 0

(Contd. on page 2)

Printing date 06/01/2005

SEM

Reviewed on 09/08/2004

Trade name: 38371;38374 SEM Solve

(Contd. of page 1)

4 First aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- In case of unconsciousness place patient stably in side position for transportation.
- \cdot After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.

5 Fire fighting measures

• Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- · Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

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). Dispose contaminated material as waste according to item 13.
 - Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

7 Handling and storage

· Handling:

- Information for safe handling: Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.

· Storage:

- Requirements to be met by storerooms and receptacles: Store in a cool location.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Printing date 06/01/2005

Reviewed on 09/08/2004

Trade name: 38371;38374 SEM Solve

	ional information about design of technical systems: No further data; see item 7. conents with limit values that require monitoring at the workplace:	
	20-7 xylene	
	435 mg/m ³ , 100 ppm	
	Short-term value: 655 mg/m ³ , 150 ppm	
	Long-term value: 435 mg/m ³ , 100 ppm	
	(<i>o</i> -, <i>m</i> -, & <i>p</i> -isomers)	
	Short-term value: 651 mg/m³, 150 ppm	
	Long-term value: 434 mg/m³, 100 ppm	
	BEI	
08-8	28-3 toluene	
EL	Short-term value: C 300; 500* ppm	
	Long-term value: 200 ppm	
	*10-min peak per 8-hr shift	
	Short-term value: 560 mg/m³, 150 ppm	
	Long-term value: 375 mg/m³, 100 ppm	
	188 mg/m ³ , 50 ppm	
	Skin; BEI	
ddit	ional information: The lists that were valid during the creation were used as basis.	
	nal protective equipment:	

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.

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

(Contd. on page 4)

USA

(Contd. of page 2)

Printing date 06/01/2005

Reviewed on 09/08/2004

Trade name: 38371;38374 SEM Solve

• Eye protection:

(Contd. of page 3)



Tightly sealed goggles

	operties
General Information	
Form:	Fluid
Color:	According to product specification
Odor:	Characteristic
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	137°C (279°F)
Flash point:	$7^{\circ}C(45^{\circ}F)$
Ignition temperature:	500.0°C (932°F)
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixture are possible.
Explosion limits:	
Lower:	1.1 Vol %
Upper:	7.0 Vol %
Vapor pressure at 20°C (68°F):	14.0 hPa (11 mm Hg)
Density at 20°C (68°F):	0.77 g/cm ³
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Solvent content:	
Organic solvents:	100.0 %
VOC content:	100.0 %
	772.0 g/l / 6.44 lb/gl

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:

1330-20-7 xylene

Oral LD50 4300 mg/kg (rat)

> (Contd. on page 5) USA

Page 4/7

Printing date 06/01/2005

Reviewed on 09/08/2004

Trade name: 38371;38374 SEM Solve

Dermal LD50 2000 mg/kg (rabbit)

- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Harmful Irritant

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. 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.

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

• DOT regulations:		
FLAMMAELE LOUID		
· Hazard class:	3	
· Identification number:	UN1263	
· Packing group:	III	
	l name): PAINT RELATED MATERIAL	
·Label	3	
· Land transport ADR/RID (cross	s-border):	
	s-border):	
• Land transport ADR/RID (cross	s -border): 3 Flammable liquids 30	
· Land transport ADR/RID (cross	3 Flammable liquids	
• Land transport ADR/RID (cross • ADR/RID class: • Danger code (Kemler):	3 Flammable liquids 30	



(Contd. of page 4)



SEM

Reviewed on 09/08/2004

Trade name: 38371;38374 SEM Solve

	(Contd. of pag
Description of goods:	1263 PAINT RELATED MATERIAL, special provision 640E
Maritime transport IMDG:	
	2
IMDG Class: UN Number:	3 1263
Label	3
Packaging group:	III
EMS Number:	F- E , S - E
Marine pollutant:	No
Propper shipping name:	PAINT RELATED MATERIAL
ICAO/IATA Class:	3
ICAO/IATA Class	3
· UN/ID Number:	1263
Label	3
	111
Packaging group:	***
Packaging group: Propper shipping name:	PAINT RELATED MATERIAL

Propper shipping name:	***
Propper shipping name: Regulations	***
Propper shipping name: Regulations Sara	PAINT RELATED MATERIAL
Propper shipping name: Regulations Sara Section 355 (extremely hazardou	PAINT RELATED MATERIAL
Propper shipping name: Regulations Sara	PAINT RELATED MATERIAL
Propper shipping name: Regulations Sara Section 355 (extremely hazardou None of the ingredient is listed. Section 313 (Specific toxic chem	PAINT RELATED MATERIAL
Propper shipping name: Regulations Sara Section 355 (extremely hazardou None of the ingredient is listed.	PAINT RELATED MATERIAL

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

• Chemicals known to cause cancer:

1330-20-7 xylene

 \cdot Chemicals known to cause reproductive toxicity:

108-88-3 toluene

· Cancerogenity categories

· EPA (Environmental Protection Agency)

1330-20-7 xylene

108-88-3 toluene

· IARC (International Agency for Research on Cancer)

1330-20-7 xylene

(Contd. on page 7) USA

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3

Printing date 06/01/2005

Trade name: 38371;38374 SEM Solve

108-88-3 toluene	(Contd. of page
• NTP (National Toxicology Program)	I
None of the ingredients is listed.	
• TLV (Threshold Limit Value established by ACGIH)	
1330-20-7 xylene	A^2
108-88-3 toluene	A
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
· 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: Harmful Highly flammable	
• <i>Hazard-determining components of labelling:</i> Solvent naphtha (petroleum), light aliph. xylene	

· Risk phrases:

Highly flammable. Harmful by inhalation and in contact with skin. Irritating to eyes, respiratory system and skin. Harmful: may cause lung damage if swallowed.

· Safety phrases:

Keep locked up and out of the reach of children. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

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). Avoid exposure - obtain special instructions before use.

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: Mr. George Wallace

USA

Reviewed on 09/08/2004