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SEM

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1 Identification of substance

- · Product details
- · Trade name: <u>39863 Plastic Adhesion Promoter</u>
- Article number: 39863

• *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 c	components:
---------------	-------------

8	1	
68476-86-8	Petroleum gases, liquefied, sweetened	10-25%
64742-89-8	Solvent naphtha (petroleum), light aliph.	10-25%
108-88-3	toluene	10-25%
67-64-1	acetone	10-25%
123-86-4	n-butyl acetate	2.5-10%

3 Hazards identification

• Hazard description:



Harmful Extremely flammable

• Information pertaining to particular dangers for man and environment: The product has to be labelled due to the calculation procedure of international guidelines. Warning! Pressurized container. Extremely flammable. Harmful by inhalation. Irritating to eyes, respiratory system and skin. Danger of serious damage to health by prolonged exposure. Possible risk of harm to the unborn child. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use. 46.8 % by mass of the contents are flammable Keep out of the reach of children. · 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 = 2Fire = 4 Reactivity = 0

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HMIS-ratings (scale 0 - 4)
 HEALTH *2 Health = *2

FIRE4Fire= 4REACTIVITY0Reactivity= 0

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.

· 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, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · 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:* Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

7 Handling and storage

· Handling:

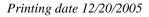
· Information for safe handling:

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

• Information about protection against explosions and fires: Do not spray on a naked flame or any incandescent material. Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.

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(Contd. of page 2) Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50° C, i.e. electric lights. Do not pierce or burn, even after use.

· Storage:

 Requirements to be met by storerooms and receptacles: Store in a cool location.
 Observe official regulations on storing packagings with pressurized containers.

• Information about storage in one common storage facility: Not required.

respiratory protective device that is independent of circulating air.

- \cdot Further information about storage conditions:
- Keep receptacle tightly sealed.

Do not gas tight seal receptacle.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

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: 68476-86-8 Petroleum gases, liquefied, sweetened TLV Short-term value: 2950 mg/m³, 1000 ppm 108-88-3 toluene PEL Short-term value: C 300; 500* ppm Long-term value: 200 ppm *10-min peak per 8-hr shift *REL* Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm TLV188 mg/m³, 50 ppm Skin; BEI 67-64-1 acetone PEL 2400 mg/m³, 1000 ppm REL 590 mg/m³, 250 ppm TLV Short-term value: 1782 mg/m³, 750 ppm Long-term value: 1188 mg/m³, 500 ppm BEI 123-86-4 n-butyl acetate PEL 710 mg/m³, 150 ppm REL Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm TLV Short-term value: 950 mg/m³, 200 ppm Long-term value: 713 mg/m³, 150 ppm • 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

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· Protection of hands:

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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.

• Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

• General Information Form: Aerosol Color: According to product specification Odor: Characteristic • Change in condition Melting noint/Melting range: Undetermined

Change in condition Melting point/Melting range: Boiling point/Boiling range:	
Flash point:	$< -17^{\circ}C (< 1^{\circ}F)$
Ignition temperature:	370.0°C (698°F)
Auto igniting:	Product is not selfigniting.
Danger of explosion: Explosion limits:	
Lower:	1.2 Vol %
Upper:	13.0 Vol %
Vapor pressure at $20^{\circ}C$ (68°F).	: 233.0 hPa (175 mm Hg)
Density at 20°C (68°F):	0.710 g/cm ³
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Solvent content:	
Organic solvents:	96.5 %
VOC content:	82.3 %
	591.4 g/l / 4.94 lb/gl
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· Solids content:

10 Stability and reactivity

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

3.5 %

11 Toxicological information

- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

108-88-3 toluene

OralLD505000 mg/kg (rat)DermalLD5012124 mg/kg (rabbit)InhalativeLC50/4 h5320 mg/l (mouse)

· 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.

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DOT regulations:		
Constant Cold		
•		
Hazard class:	2.1	
Identification number:	UN1950	
Packing group:	-	
Proper shipping name (technica Label	2.1	
Land transport TDG (Canada) a	ina ADK/KID (Europe):	
2		
Hazard class:	2 5F Gases	
UN-Number:	1950	
Packaging group:	-	
Label:	2.1	
Description of goods:	1950 AEROSOLS	
e		
IMDG Class:	2.1	
UN Number:	1950	
Label	2.1	
	-	
Packaging group:		
EMS Number:	F-D,S-U	
EMS Number: Marine pollutant:	No	
EMS Number: Marine pollutant: Propper shipping name:	No AEROSOLS	
EMS Number: Marine pollutant:	No AEROSOLS	
EMS Number: Marine pollutant: Propper shipping name:	No AEROSOLS	
EMS Number: Marine pollutant: Propper shipping name:	No AEROSOLS	
EMS Number: Marine pollutant: Propper shipping name:	No AEROSOLS	
EMS Number: Marine pollutant: Propper shipping name: Air transport ICAO-TI and IATA	No AEROSOLS A-DGR:	
EMS Number: Marine pollutant: Propper shipping name: Air transport ICAO-TI and IATA	No AEROSOLS A-DGR: 2.1	
EMS Number: Marine pollutant: Propper shipping name: Air transport ICAO-TI and IATA	No AEROSOLS A-DGR: 2.1 1950	
EMS Number: Marine pollutant: Propper shipping name: Air transport ICAO-TI and IATA OFFICE ICAO/IATA Class: UN/ID Number:	No AEROSOLS A-DGR: 2.1	

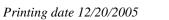
15 Regulations

· Sara

· Sectio	on 355	5 (ex	trem	ely	hazardous substances):	
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Section 312	(Specific toxic chemical listings):	(Contd. of pa
108-88-3 tol		
78-93-3 bu		
	c Substances Control Act):	
•	Petroleum gases, liquefied, sweetened	
	Solvent naphtha (petroleum), light aliph.	
108-88-3		
67-64-1		
	n-butyl acetate	
	butanone	
Proposition		
-	nown to cause cancer:	
	ngredients is listed.	
	nown to cause reproductive toxicity for females:	
	ngredients is listed.	
Chemicals k	nown to cause reproductive toxicity for males:	
	ngredients is listed.	
	nown to cause developmental toxicity:	
108-88-3 tol	· ·	
Cancerogen		
-	onmental Protection Agency)	
108-88-3 tol		
67-64-1 ac	etone	
78-93-3 bu	tanone	
IARC (Inter	national Agency for Research on Cancer)	
108-88-3 tol		
NTP (Nation	al Toxicology Program)	
	ngredients is listed.	
-	old Limit Value established by ACGIH)	
108-88-3 tol		
67-64-1 ac		
	National Institute for Occupational Safety and Health)	
	ngredients is listed.	
	-	
,	Occupational Safety & Health Administration) ngredients is listed.	
None of the t	ngreatents is tistea.	
	ted hazard informations: has been classified and marked in accordance with directives on hazardous materials.	
Hazard sym	bols:	
Harmful Extremely fl	un able	
Extremely flo		
toluene	rmining components of labelling:	
Solvent naph	tha (petroleum), light aliph.	(Contd. on pa

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Risk phrases: Extremely flammable. Harmful by inhalation. Irritating to eyes, respiratory system and skin. Danger of serious damage to health by prolonged exposure. Possible risk of harm to the unborn child.

· Safety phrases:

Avoid exposure - obtain special instructions before use. Keep locked up and out of the reach of children. Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer). Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. We an write he protective clocking, closes and metface protection

Wear suitable protective clothing, gloves and eye/face protection. In case of insufficient ventilation, wear suitable respiratory equipment.

· Special labeling of certain preparations:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use. 46.8 % by mass of the contents are flammable

Keep out of the reach of children.

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