Printing date 01/31/2008

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1 Identification of substance

- · Product details
- · Trade name: Adhesion Promoter Aerosol
- Article number: 50133Z
- Distributed By: The Easthill Group dba/ The Eastwood Company 263 Shoemaker Road Pottstown, PA 19464
- Information department: USA & Canada: 800-345-1178
 Outside USA: 610-323-2200
 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.

68476-86-8	Petroleum gases, liquefied, sweetened	10-25%
	Danger: 🚸 2.2/1	
	Warning: 🔶 2.5/C	
64742-89-8	Solvent naphtha (petroleum), light aliph.	10-25%
	Danger: 🚸 2.6/1; 🚯 3.10/1	
108-88-3	toluene	10-25%
	Danger: 🚸 2.6/2; 🚸 3.10/1, 3.7/2	
	Warning: 🚸 3.2/2, 3.3/2A, 3.8/3	
67-64-1	acetone	10-25%
	Danger: 🚸 2.6/2	
	Warning: 🚸 3.3/2A, 3.8/3	
123-86-4	n-butyl acetate	2.5-10%
	Warning: 🚸 2.6/3; 🚸 3.8/3	

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.

(Contd. on page 2)

USA

Printing date 01/31/2008

Reviewed on 01/31/2008

Trade name: Adhesion Promoter Aerosol

(Contd. of page 1) 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. 96.5 % 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 = 4Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH ^{*2} Health = *2 4 FIRE Fire = 4**REACTIVITY O** *Reactivity* = 0· GHS label elements Danger 2.2/1 - Extremely flammable gas. 2.3/1 - Extremely flammable aerosol. Warning 3.7/2 - Suspected of damaging fertility or the unborn child. Warning 3.1/4 - Harmful if inhaled. 3.2/2 - Causes skin irritation. 3.3/2A - Causes serious eye irritation. 3.8/3 - May cause respiratory irritation. · Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. · Response: IF ON SKIN: Wash with plenty of soap and water. IF INHALED: 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. (Contd. on page 3)

Printing date 01/31/2008

Reviewed on 01/31/2008

Trade name: Adhesion Promoter Aerosol

(Contd. of page 2)

IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment (see label). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so. • **Storage:** Store in a well-ventilated place. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do no expose to temperatures exceeding 50°C/ 122°F. • **Disposal:**

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

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
- For safety reasons unsultable exinguishing agents: water with juit
- 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.

(Contd. on page 4)

Page 4/10

Material Safety Data Sheet EW #50133Z - SEM Adhesion Promotor Aerosol acc. to ISO/DIS 11014

Printing date 01/31/2008

Reviewed on 01/31/2008

Trade name: Adhesion Promoter Aerosol

(Contd. of page 3)

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. 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.
- 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 lin	nit values that require monitoring at the workplace:
108-88-3 toluene	
PEL Short-term valu	ие: С 300; 500* ppm
Long-term valu	е: 200 ррт
*10-min peak p	er 8-hr shift
	ue: 560 mg/m ³ , 150 ppm
	e: 375 mg/m ³ , 100 ppm
TLV 75 mg/m ³ , 20 p	9m
67-64-1 acetone	
PEL 2400 mg/m ³ , 10	00 ppm
REL 590 mg/m ³ , 250	ppm
TLV Short-term valu	ue: 1782 mg/m³, 750 ppm
Long-term valu	e: 1188 mg/m³, 500 ppm
BEI	
123-86-4 n-butyl ace	tate
PEL 710 mg/m ³ , 150	ppm
REL Short-term valu	ue: 950 mg/m ³ , 200 ppm
Long-term valu	e: 710 mg/m ³ , 150 ppm
TLV Short-term valu	ue: 950 mg/m³, 200 ppm
Long-term valu	e: 713 mg/m³, 150 ppm
· Additional informati	on: The lists that were valid during the creation were used as basis.
-	(Contd. on page 5)

Printing date 01/31/2008

Reviewed on 01/31/2008

Trade name: Adhesion Promoter Aerosol

(Contd. of page 4)

- 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.
- 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
- · 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

Form:	Aerosol	
Color:	According to product specification	
Odor:	Characteristic	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 		
· Flash point:	$< -17^{\circ}C \ (< 1^{\circ}F)$	
· Ignition temperature:	370°C (698°F)	
• Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	In use, may form flammable/explosive vapour-air mixture.	

USA -

Printing date 01/31/2008

Reviewed on 01/31/2008

Trade name: Adhesion Promoter Aerosol

		(Contd. of page
· Explosion limits:		
Lower:	1.2 Vol %	
Upper:	13.0 Vol %	
· Vapor pressure at $20^{\circ}C$ (68°)	F): 233 hPa (175 mm Hg)	
· Density at $20^{\circ}C$ (68°F):	0.71 g/cm ³	
· Solubility in / Miscibility with	h	
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	
· Solids content:	3.5 %	

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:		
108-88-3 toluene			oluene	
		Oral	LD50	5000 mg/kg (rat)
			LD50	12124 mg/kg (rabbit)
		Inhalative	LC50/4 h	5320 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.

 \cdot 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.

(Contd. on page 7)

Printing date 01/31/2008

Reviewed on 01/31/2008

Trade name: Adhesion Promoter Aerosol

(Contd. of page 6)

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:		
FLANDARIE CA		
2		
· Hazard class:	2.1	
Identification number:	UN1950	
Packing group:	-	
	al name): AEROSOLS, flammable	
· Label	2.1	
· Land transport TDG (Canada)	and ADR/RID (Europe):	
•		
2		
Hazard class:	2 5F Gases	
· UN-Number:	1950	
· Packaging group:	-	
Label:	2.1	
Description of goods:	1950 AEROSOLS	
• Maritime transport IMDG:		
2		
IMDG Class:	2.1	
· UN Number:	1950	
· Label	2.1	
Packaging group:	-	
EMS Number:	F- D , S - U	
1.6 1 11 1	No	
• Marine pollutant: • Propper shipping name:	AEROSOLS	

Page 8/10

Material Safety Data Sheet EW #50133Z - SEM Adhesion Promotor Aerosol acc. to ISO/DIS 11014

Printing date 01/31/2008

Reviewed on 01/31/2008

Trade name: Adhesion Promoter Aerosol

		(Contd. of page
· Air transport ICAO-TI and IATA	A-DGR:	
()		
· ICAO/IATA Class:	2.1	
· UN/ID Number:	1950	
· Label	2.1	
· Packaging group:	-	
	AEROSOLS, flammable	

15 Regulations

	(extremely hazardous substances):	
None of the	ingredient is listed.	
Section 313	(Specific toxic chemical listings):	
108-88-3 to	luene	
78-93-3 bi	itanone	
TSCA (Toxi	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:	
None of the	ingredients is listed.	
Chemicals k	nown to cause reproductive toxicity for females:	
None of the ingredients is listed.		
Chemicals k	nown to cause reproductive toxicity for males:	
None of the	ingredients is listed.	
Chemicals k	nown to cause developmental toxicity:	
108-88-3 to		
Cancerogen	ity categories	
EPA (Envir	onmental Protection Agency)	
108-88-3 to	luene	
67-64-1 a	cetone	
78-93-3 bi	itanone	

Printing date 01/31/2008

Reviewed on 01/31/2008

Trade name: Adhesion Promoter Aerosol

(Contd. of page 8)

3

A4

A4

· IARC (International Agency for Research on Cancer)		
108-88-3	toluene	

· NTP (National Toxicology Program)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

108-88-3 toluene

67-64-1 acetone

· 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 Extremely flammable

• *Hazard-determining components of labelling:* toluene Solvent naphtha (petroleum), light aliph.

· 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.

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. 96.5 % 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: Steve Gaver

(Contd. on page 10)

Printing date 01/31/2008

Reviewed on 01/31/2008

Trade name: Adhesion Promoter Aerosol

(Contd. of page 9) · 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: Reglement internationale concernent le transport des merchandises 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 USA