



Reviewed on 06/21/2017

1 Identification

- · Product identifier
- · Trade name: 77723 XXX Plastic Adhesion Promoter
- Article number: 77723
- · Application of the substance / the mixture Coating
- · 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: CHEMTREC 1-800-424-9300

2 Hazard(s) identification

· Classification of the substance or mixture

GHS02 GHS04 Flame, Gas cylinder

Flam. Aerosol 1 H222 Extremely flammable aerosol.

GHS04 Gas cylinder

- Press. Gas H280 Contains gas under pressure; may explode if heated.
 - GHS08 Health hazard
- *Repr.* 2 H361 Suspected of damaging fertility or the unborn child. *STOT RE 1* H372 Causes damage to the central nervous system through prolonged or repeated exposure.
- Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
- Skin Irrit. 2H315 Causes skin irritation.Eye Irrit. 2AH319 Causes serious eye irritation.
- STOT SE 3 H336 May cause drowsiness or dizziness.
- · Label elements

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2)

USA -

Printing date 03/14/2018

Reviewed on 06/21/2017

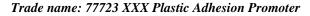
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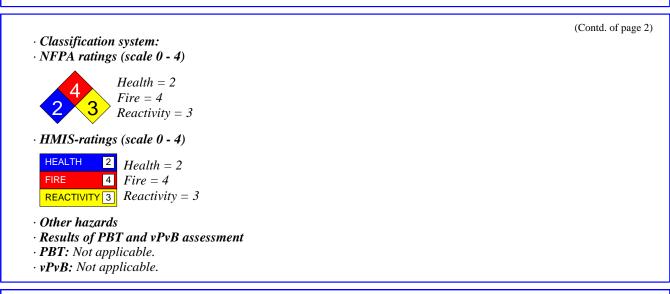
Hazard pictogra	(Contd. of pag
JH.	
GHS02 GHS	504 GHS07 GHS08
011302 011	504 011507 011508
Signal word Da	inger
Hazard-determ	ining components of labeling:
toluene	
-	u (petroleum), medium aliph.
acetone	
n-butyl acetate	
Hazard stateme	
	y flammable aerosol. gas under pressure; may explode if heated.
H315 Causes sk	
	rious eye irritation.
	l of damaging fertility or the unborn child.
	e drowsiness or dizziness.
	amage to the central nervous system through prolonged or repeated exposure.
	ital if swallowed and enters airways.
Precautionary s	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P331 P302+P352	Do NOT induce vomiting. If on skin: Wash with plenty of water.
P302+P352 P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if pres
P308+P313	and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention.
P312	Call a poison center/doctor if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding $50^{\circ}C/122^{\circ}F$.

USA

Printing date 03/14/2018

Reviewed on 06/21/2017





3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description:
- *Mixture: consisting of the following components. Weight percentages*

· Dangerous	•	
68476-86-8	Petroleum gases, liquefied, sweetened	13-30%
	Solvent naphtha (petroleum), medium aliph.	13-30%
108-88-3	toluene	13-30%
67-64-1	acetone	13-30%
123-86-4	n-butyl acetate	≥7-<10%

4 First-aid measures

- · Description of first aid measures
- After inhalation: 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.
- 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.

5 *Fire-fighting measures*

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

(Contd. on page 4) USA



SEM

Page 4/13

Reviewed on 06/21/2017

(Contd. of page 3)

Trade name: 77723 XXX Plastic Adhesion Promoter

• 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:

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.

· Protective Action Criteria for Chemicals

· PAC-1:		
108-88-3	toluene	67 ppm
67-64-1	acetone	200 ppm
123-86-4	n-butyl acetate	5 ppm
78-93-3	butanone	200 ppm
· PAC-2:		
108-88-3	toluene	560 ppm
67-64-1	acetone	3200* ppm
123-86-4	n-butyl acetate	200 ppm
78-93-3	butanone	2700* ppm
· PAC-3:		
108-88-3	toluene	3700* ppm
67-64-1	acetone	5700* ppm
123-86-4	n-butyl acetate	3000* ppm
78-93-3	butanone	4000* ppm

7 Handling and storage

· Handling:

· Precautions for safe handling No special measures required.

• 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.

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.

· Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurized containers.

(Contd. on page 5)

USA

Printing date 03/14/2018

Reviewed on 06/21/2017

Trade name: 77723 XXX Plastic Adhesion Promoter

(Contd. of page 4)

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.

· Control parameters

· Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

108-8	88-3 toluene
PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* 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
TLV	Long-term value: 75 mg/m³, 20 ppm BEI
67-64	4-1 acetone
PEL	Long-term value: 2400 mg/m³, 1000 ppm
REL	Long-term value: 590 mg/m³, 250 ppm
TLV	Short-term value: 1187 mg/m³, 500 ppm Long-term value: 594 mg/m³, 250 ppm BEI
123-	86-4 n-butyl acetate
PEL	Long-term value: 710 mg/m³, 150 ppm
REL	Long-term value: 950 mg/m³, 200 ppm
TLV	Short-term value: 712 mg/m³, 150 ppm Long-term value: 238 mg/m³, 50 ppm
· Ingr	edients with biological limit values:
-	88-3 toluene
	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene
	0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene
	0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)
	(Contd. on page 6
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(Contd. on page 6)

USA

Page 5/13

Printing date 03/14/2018

Reviewed on 06/21/2017

Trade name: 77723 XXX Plastic Adhesion Promoter

acetone

BEI 50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)

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

· Exposure controls

- · 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 gues and skin

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:

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



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

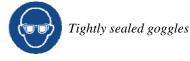
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore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

Safety glasses



9 Physical and chemical properties

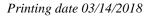
- \cdot Information on basic physical and chemical properties
- General Information
- · Appearance:
- Form:
- Color: • Odor:

Aerosol According to product specification Characteristic

(Contd. on page 7)

USA -

(Contd. of page 5)





Reviewed on 06/21/2017

Trade name: 77723 XXX Plastic Adhesion Promoter

	(Contd. of page
· Odor threshold:	Not determined.
· pH-value:	Not determined.
• Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 55 °C
· Flash point:	-103 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	265 °C
• Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	In use, may form flammable/explosive vapour-air mixture.
· Explosion limits: Lower: Upper:	0.6 Vol % 13 Vol %
· Vapor pressure at 20 °C:	233 hPa
· Density at 20 °C: · Relative density · Vapor density · Evaporation rate	0.72652 g/cm ³ Not determined. Not determined. Not applicable.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wat	t er): Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
· Solvent content: Organic solvents: VOC content:	96.6 % 79.73 % 685.4 g/l / 5.72 lb/gl
Solids content: • Other information	3.4 % No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · 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.

(Contd. on page 8)

USA —

Printing date 03/14/2018

Reviewed on 06/21/2017

Trade name: 77723 XXX Plastic Adhesion Promoter

· 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:

64742-88-7	Solvent	navhtha	(petroleum).	medium aliph.

Oral	LD50	>6,500 mg/kg (rat)
Dermal	LD50	>3,000 mg/kg (rab)
Inhalative	LC50/4 h	>14 mg/l (rat)

108-88-3 toluene

0	ral	LD50	5,000 mg/kg (rat)
D	ermal		12,124 mg/kg (rabbit)
In	halative	LC50/4 h	5,320 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: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

108-88-3 toluene

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

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.
- · Mobility in soil No further relevant information available.
- · 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.
- Danger to drinking water if even small quantities leak into the ground.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

(Contd. on page 9) USA

3

(Contd. of page 7)

Page 8/13





Page 9/13

Reviewed on 06/21/2017

Trade name: 77723 XXX Plastic Adhesion Promoter

· 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	UN1950
· UN proper shipping name · DOT	Asussels flammable
· DOT · ADR	Aerosols, flammable 1950 Aerosols
· IMDG	AEROSOLS
· IATA	AEROSOLS, flammable
· Transport hazard class(es)	
·DOT	
RUMUER NO	
· Class	2.1
· Class · Label	2.1
	2.1
· ADR	
V	
· Class	2 5F Gases
· Label	2.1
· IMDG, IATA	
2	
V	
· Class	2.1
· Label	2.1
· Packing group	

Printing date 03/14/2018

Reviewed on 06/21/2017

SEM

Trade name: 77723 XXX Plastic Adhesion Promoter

	(Contd. of page
Environmental hazards: Marine pollutant:	No
Special precautions for user	Warning: Gases
EMS Number:	F- D , S - U
Stowage Code	SW1 Protected from sources of heat.
	SW22 For AEROSOLS with a maximum capacity of 1 litre
	Category A. For AEROSOLS with a capacity above 1 litre
	Category B. For WASTE AEROSOLS: Category C, Clear of livin
~ . ~ .	quarters.
Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litro Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litro
	Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
Transport in bulk according to Annex.	II of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 75 kg
~ '	On cargo aircraft only: 150 kg
ADR	
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· IMDG	
Limited quantities (LQ)	1L
Excepted quantities $(\widetilde{E}Q)$	Code: E0
	Not permitted as Excepted Quantity
UN ''Model Regulation'':	UN 1950 AEROSOLS, 2.1

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

 Section 355 (extremely hazardous substances): None of the ingredient is listed.
Section 313 (Specific toxic chemical listings): 108-88-3 toluene 78-93-3 butanone
TSCA (Toxic Substances Control Act): 64742-88-7 Solvent naphtha (petroleum), medium aliph. 108-88-3 toluene 67-64-1 acetone
123-86-4 n-butyl acetate

Page 10/13



Page 11/13

Reviewed on 06/21/2017

Printing date 03/14/2018

Trade name: 77723 XXX Plastic Adhesion Promoter

78-93-3 butanone	(Contd. of pag
TSCA new (21st Century Act) (Substances not listed)	
68476-86-8 Petroleum gases, liquefied, sweetened	
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients is listed.	
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:	
108-88-3 toluene	
Cancerogenity categories	
EPA (Environmental Protection Agency)	
108-88-3 toluene	
67-64-1 acetone	
78-93-3 butanone	
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.	
GHS label elements The product is classified and labeled according to the Globally Har Hazard pictograms	monized System (GHS
GHS02 GHS04 GHS07 GHS08 Signal word Danger	
Signal word Danger	
Signal word Danger Hazard-determining components of labeling: toluene	
Signal word Danger Hazard-determining components of labeling: toluene Solvent naphtha (petroleum), medium aliph.	
Signal word Danger Hazard-determining components of labeling: toluene Solvent naphtha (petroleum), medium aliph. acetone	
Signal word Danger Hazard-determining components of labeling: toluene Solvent naphtha (petroleum), medium aliph. acetone n-butyl acetate Hazard statements	
Signal word Danger Hazard-determining components of labeling: toluene Solvent naphtha (petroleum), medium aliph. acetone n-butyl acetate Hazard statements H222 Extremely flammable aerosol.	
Signal word Danger Hazard-determining components of labeling: toluene Solvent naphtha (petroleum), medium aliph. acetone n-butyl acetate Hazard statements H222 Extremely flammable aerosol. H280 Contains gas under pressure; may explode if heated.	
Signal word Danger Hazard-determining components of labeling: toluene Solvent naphtha (petroleum), medium aliph. acetone n-butyl acetate Hazard statements H222 Extremely flammable aerosol. H280 Contains gas under pressure; may explode if heated. H315 Causes skin irritation.	
Signal word Danger Hazard-determining components of labeling: toluene Solvent naphtha (petroleum), medium aliph. acetone n-butyl acetate Hazard statements H222 Extremely flammable aerosol. H280 Contains gas under pressure; may explode if heated. H315 Causes skin irritation. H319 Causes serious eye irritation. H361 Suspected of damaging fertility or the unborn child.	

USA

Printing date 03/14/2018

Reviewed on 06/21/2017

Page 12/13

Trade name: 77723 XXX Plastic Adhesion Promoter

	(Contd. of page 11)
• Precautionary st	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P331	Do NOT induce vomiting.
P302+P352	If on skin: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P3	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a poison center/doctor if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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 SDS: Environment protection department.

· *Contact: Rita Joiner (rjoiner@semproducts.com)*

• Date of preparation / last revision 03/14/2018 / 6

• 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)

ICAO: International Civil Aviation Organisation

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

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

(Contd. on page 13)

VOC: Volatile Organic Compounds (USA, EU)





Page 13/13

Reviewed on 06/21/2017

Trade name: 77723 XXX Plastic Adhesion Promoter

	(Contd. of page 12)
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
BEI: Biological Exposure Limit	
Flam. Aerosol 1: Aerosols – Category 1	
Press. Gas: Gases under pressure – Compressed gas	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A	
Repr. 2: Reproductive toxicity – Category 2	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1	
Asp. Tox. 1: Aspiration hazard – Category 1	
• * Data compared to the previous version altered.	
	LICA