Safety Data Sheet acc. to OSHA HCS



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Reviewed on 06/21/2017

# Printing date 06/28/2017

# 1 Identification

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

# 2 Hazard(s) identification

\*

· Classification	of the substance or mixture
	GHS02 GHS04 Flame, Gas cylinder
Flam. Aerosol	1 H222 Extremely flammable aerosol.
GHS	504 Gas cylinder
Press. Gas	H280 Contains gas under pressure; may explode if heated.
GHS	508 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.
GHS	507
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2A	H319 Causes serious eye irritation.
STOT SE 3	H336 May cause drowsiness or dizziness.
· Label elements · GHS label eler	s nents The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2)



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Trade name: 77723 XXX Plastic Adhesion Promoter

• Hazard pictogra	(Contd. of page 1)
, the	
GHS02 GHS	04 GHS07 GHS08
<ul> <li>Signal word Data</li> </ul>	nger
· Hazard-determi	ning components of labeling:
toluene	
Solvent naphtha	(petroleum), medium aliph.
acetone	
n-butyl acetate	
• Hazard statement	
	flammable aerosol.
	gas under pressure; may explode if heated.
H315 Causes ski	
	rious eye irritation.
	of damaging fertility or the unborn child.
	e drowsiness or dizziness.
	mage to the central nervous system through prolonged or repeated exposure.
	tal if swallowed and enters airways.
• Precautionary st	
P201 P202	Obtain special instructions before use.
P202 P210	Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not spray on an open fiame of other rightion source. Do not pierce or burn, even after use.
P260	Do not prette of burn, even after use. 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.
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.
P321	Specific treatment (see on this label).
P331	Do NOT induce vomiting.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405 P410+P403	Store locked up. Protect from sunlight Store in a well ventilated place
P410+P403 P410+P412	Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P410+P412 P501	Dispose of contents/container in accordance with local/regional/national/international
1 301	regulations.
	(Contd. on page 3)



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- Classification system:
- ·NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)

HEALTH\*1FIRE4Fire4REACTIVITY3Reactivity3

- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.

· **vPvB:** Not applicable.

# 3 Composition/information on ingredients

### · Chemical characterization: Mixtures

· Description:

*Mixture: consisting of the following components. Weight percentages* 

· Dangerous components:		
68476-86-8	Petroleum gases, liquefied, sweetened	13 - 30%
64742-88-7	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.



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• 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

	precautions, protective equipment and emergency procedures	
	tective equipment. Keep unprotected persons away.	
	nental precautions: Do not allow to enter sewers/ surface or ground water.	
	and material for containment and cleaning up: ontaminated material as waste according to item 13.	
	lequate ventilation.	
	e to other sections	
	on 7 for information on safe handling.	
	m 7 for information on safe handling. m 8 for information on personal protection equipment.	
	m o jor information on personal protection equipment. m 13 for disposal information.	
	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
	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.

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(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.

Parameter: o-Cresol with hydrolysis (background)

# 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. 108-88-3 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/m<sup>3</sup>, 150 ppm Long-term value: 375 mg/m<sup>3</sup>, 100 ppm TLV Long-term value: 75 mg/m<sup>3</sup>, 20 ppm BEI 67-64-1 acetone PEL Long-term value: 2400 mg/m<sup>3</sup>, 1000 ppm REL Long-term value: 590 mg/m<sup>3</sup>, 250 ppm TLV Short-term value: 1187 mg/m<sup>3</sup>, 500 ppm Long-term value: 594 mg/m<sup>3</sup>, 250 ppm BEI 123-86-4 n-butyl acetate PEL Long-term value: 710 mg/m<sup>3</sup>, 150 ppm REL Long-term value: 950 mg/m<sup>3</sup>, 200 ppm TLV Short-term value: 712 mg/m<sup>3</sup>, 150 ppm Long-term value: 238 mg/m<sup>3</sup>, 50 ppm · Ingredients with biological limit values: 108-88-3 toluene BEI 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



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# 67-64-1 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 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



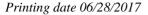
Tightly sealed goggles

# 9 Physical and chemical properties

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

Aerosol According to product specification Characteristic

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	(Contd. of page
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	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:	0.6 Vol %
Upper:	13.0 Vol %
Vapor pressure at 20 $^{\circ}C$ :	233 hPa
Density at 20 °C:	0.72652 g/cm <sup>3</sup>
Relative density	Not determined.
· Vapor density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wat	ter): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	96.6 %
VOC content:	79.7 %
	685.4 g/l / 5.72 lb/gl
Solids content:	3.4 %
Other information	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.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.

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· 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 naphtha (petroleum), medium aliph.

Oral LD50 >6500 mg/kg (rat)

Dermal LD50 >3000 mg/kg (rab)Inhalative LC50/4 h >14 mg/l (rat)

108-88-3 toluene

Oral LD50

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: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

108-88-3 toluene

 $\cdot$  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.

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• 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
	0111930
UN proper shipping name DOT	Aerosols, flammable
ADR	1950 Aerosols
IMDG	AEROSOLS
IATA	AEROSOLS, flammable
Transport hazard class(es)	
DOT	
LUMMILL GAS	
Class	2.1
Label	2.1
ADR	
Class	2 5F Gases
Label	2.1
IMDG, IATA	
Class	2.1
Label	2.1
Packing group	
DOT, ADR, IMDG, IATA	Void

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SEM



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### Trade name: 77723 XXX Plastic Adhesion Promoter

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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 living quarters.
Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre Segregation as for class 9. Stow "separated from" class 1 except fo division 1.4. For AEROSOLS with a capacity above 1 litre
	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 MARPOL73/78 and the IBC Code	II of 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
$\cdot$ Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
	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

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A4

A4

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# · Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

78-93-3 butanone

· 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

70.02.2 L

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 Harmonized System (GHS).

· Hazard pictograms



· 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.

H336 May cause drowsiness or dizziness.

H372 Causes damage to the central nervous system through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

### · Precautionary statements

P201	Obtain special	instructions before use.
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- 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.

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### Trade name: 77723 XXX Plastic Adhesion Promoter

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Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
IF ON SKIN: Wash with plenty of water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
3 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present
and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Call a POISON CENTER/doctor if you feel unwell.
Get medical advice/attention if you feel unwell.
Specific treatment (see on this label).
Do NOT induce vomiting.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Store in a well-ventilated place.
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
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.

# · Date of preparation / last revision 06/28/2017 / 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) VOC: Volatile Organic Compounds (USA, EU) 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



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USA

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.