

Printing date 04/01/2019 Version Number 2 Reviewed on 04/01/2019

#### 1 Identification

· Product identifier

· Trade name: Pesticide Standard (1X1 mL)

· Part number: PSM-250-1

· Application of the substance / the mixture Reagents and Standards for Analytical Chemical Laboratory Use

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Agilent Technologies, Inc. 5301 Stevens Creek Blvd. Santa Clara, CA 95051 USA

· Information department:

Telephone: 800-227-9770

e-mail: pdl-msds author@agilent.com

· Emergency telephone number: CHEMTREC®: 1-800-424-9300

#### 2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin 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).
- · Hazard pictograms







GHS02

GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

toluene

**HEXANE** 

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#### · Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

#### · Precautionary statements

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.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

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.

Specific treatment (see on this label).

Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

In case of fire: Use for extinction: CO2, powder or water spray.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

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

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



Health = 1 Fire = 3 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



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



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#### 3 Composition/information on ingredients

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

· Dangero	us components:	
108-88-3	toluene	56.631%
	HEXANE	43.094%

### 4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

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

- · 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.
- · 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.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- $\cdot$  Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

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:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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.

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(Contd. of page 3) See Section 13 for disposal information. · Protective Action Criteria for Chemicals · PAC-1: 108-88-3 toluene 67 ppm 309-00-2 aldrin (ISO)  $0.91 \text{ mg/m}^3$ 58-89-9 γ -HCH or γ -BHC  $9.1 \text{ mg/m}^3$ 72-54-8 TDE 2.4 mg/m<sup>3</sup> 72-55-9 2,2-bis(p-chlorophenyl)-1,1-dichloroethylene  $6.5 \text{ mg/m}^3$ 50-29-3 DDT (common name not adopted by ISO) 3 mg/m<sup>3</sup> 60-57-1 dieldrin (ISO)  $0.3 \text{ mg/m}^3$ 72-20-8 endrin (ISO) 1.8 mg/m<sup>3</sup> 76-44-8 heptachlor (ISO)  $0.15 \text{ mg/m}^3$ 1024-57-3 heptachlor epoxide - isomer B  $0.15 \text{ mg/m}^3$ 72-43-5 methoxychlor 30 mg/m<sup>3</sup> · PAC-2: 108-88-3 toluene 560 ppm 309-00-2 aldrin (ISO) 10 mg/m<sup>3</sup> 58-89-9  $\gamma$  -HCH or  $\gamma$  -BHC 100 mg/m<sup>3</sup> 72-54-8 TDE 26 mg/m<sup>3</sup> 72-55-9 2,2-bis(p-chlorophenyl)-1,1-dichloroethylene 72 mg/m<sup>3</sup> 50-29-3 DDT (common name not adopted by ISO)  $34 \text{ mg/m}^3$ 60-57-1 dieldrin (ISO)  $6.8 \text{ mg/m}^3$ 72-20-8 endrin (ISO) 20 mg/m<sup>3</sup> 76-44-8 heptachlor (ISO) 14 mg/m<sup>3</sup> 1024-57-3 heptachlor epoxide - isomer B  $0.5 \text{ mg/m}^3$ 72-43-5 methoxychlor 150 mg/m<sup>3</sup> · PAC-3: 108-88-3 toluene 3700\* ppm 309-00-2 aldrin (ISO) 100 mg/m<sup>3</sup> 58-89-9 γ -HCH or γ -BHC 1,000 mg/m<sup>3</sup> 72-54-8 TDE 160 mg/m<sup>3</sup> 72-55-9 2,2-bis(p-chlorophenyl)-1,1-dichloroethylene 170 mg/m<sup>3</sup> 50-29-3 DDT (common name not adopted by ISO) 210 mg/m<sup>3</sup> 60-57-1 dieldrin (ISO) 450 mg/m<sup>3</sup> 72-20-8 endrin (ISO) 2,000 mg/m<sup>3</sup> 76-44-8 heptachlor (ISO) 700 mg/m<sup>3</sup> 1024-57-3 heptachlor epoxide - isomer B  $3 \text{ mg/m}^3$ 72-43-5 methoxychlor 4,500 mg/m<sup>3</sup>



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#### 7 Handling and storage

- · Handling:
- · Precautions 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.

- · Conditions for safe storage, including any incompatibilities
- · 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.

· 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

Cont	roi parameters
· Com	ponents with limit values that require monitoring at the workplace:
108-8	8-3 toluene
PEL	Long-term value: 200 ppm
	Ceiling limit value: 300; 500* ppm
	*10-min peak per 8-hr shift
DEI	Short term value, 560 mg/m³ 150 mm

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

#### HEXANE

REL Long-term value: 350 mg/m³, 100 ppm Ceiling limit value: 1800\* mg/m³, 510\* ppm \*15-min

TLV Short-term value: 3500 mg/m³, 1000 ppm Long-term value: 1760 mg/m³, 500 ppm

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#### · 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

Parameter: o-Cresol with hydrolysis (background)

- · 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 skin.

Avoid contact with the eyes and skin.

#### · Breathing equipment:

When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

#### Protection of hands:

Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

#### · Material of gloves

For normal use: nitrile rubber, 11-13 mil thickness

For direct contact with the chemical: butyl rubber, 12-15 mil thickness

#### · Penetration time of glove material

For normal use: nitrile rubber: 1 hour

For direct contact with the chemical: butyl rubber: >4 hours

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· Eye protection:

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Tightly sealed goggles

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Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid

Color: According to product specification

Odor: CharacteristicOdor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined.

**Boiling point/Boiling range:** 110-111 °C (230-231.8 °F)

• Flash point: <-20 °C (<-4 °F)

· Flammability (solid, gaseous): Not applicable.

· **Ignition temperature:** 535 °C (995 °F)

• **Decomposition temperature:** Not determined.

• **Auto igniting:** Product is not selfigniting.

• Danger of explosion: Product is not explosive. However, formation of explosive air/vapor

mixtures are possible.

· Explosion limits:

**Lower:** 1.2 Vol % **Upper:** 7 Vol %

• **Vapor pressure at 20 °C (68 °F):** 115 hPa (86.3 mm Hg)

• **Density at 20 °C (68 °F):** 0.79654 g/cm³ (6.64713 lbs/gal)

Relative density
Vapor density
Evaporation rate
Not determined.
Not determined.
Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

**Dynamic:** Not determined. **Kinematic:** Not determined.

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(Contd. of page 7) · Solvent content: 56.6 % **Organic solvents: VOC** content: 56.64 % 451.2 g/l / 3.77 lb/gal **Solids content:** 0.3 %

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.
- · Hazardous decomposition products: No dangerous decomposition products known.

## 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

reute toxi					
· LD/LC50	· LD/LC50 values that are relevant for classification:				
ATE (Acu	te Toxicit	y Estimate)			
Inhalative	LC50/4 h	49.6 mg/L (rat)			
108-88-3 t	oluene				
Oral	LD50	5,580 mg/kg (rat)			
Dermal	LD50	12,124 mg/kg (rabbit)			
Inhalative	LC50/4 h	5,320 mg/L (mouse)			
		28.1 mg/L (rat)			
58-89-9 γ	58-89-9 γ -HCH or γ -BHC				
Oral	LD50	88 mg/kg (rat)			
Dermal	LD50	900 mg/kg (rat)			
Inhalative	LC50/4 h	1,560 mg/L (rat)			

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: No 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 (Int	ernational Agency for Research on Cancer)	
108-88-3	toluene	3
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309-00-2	aldrin (ISO)	3
319-84-6	alpha-BHC (alpha-HCH)	2B
319-85-7	(1alpha,2ß,3alpha,4ß,5alpha,6ß)-1,2,3,4,5,6-hexachlorocyclohexane	2B
58-89-9	γ -HCH or γ -BHC	1
50-29-3	DDT (common name not adopted by ISO)	2A
60-57-1	dieldrin (ISO)	3
72-20-8	endrin (ISO)	3
76-44-8	heptachlor (ISO)	2B
1024-57-3	heptachlor epoxide - isomer B	2B
72-43-5	methoxychlor	3
· NTP (Nati	ional Toxicology Program)	
319-84-6	alpha-BHC (alpha-HCH)	R
319-85-7	(1alpha,2ß,3alpha,4ß,5alpha,6ß)-1,2,3,4,5,6-hexachlorocyclohexane	R
319-86-8	delta-BHC (delta-HCH)	R
58-89-9	γ -HCH or γ -BHC	R
50-29-3	DDT (common name not adopted by ISO)	R
· OSHA-Ca	(Occupational Safety & Health Administration)	
None of th	e 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.
- · 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.

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

Transport information	
Not Regulated, De minimus Quantities	-
UN-Number DOT, IMDG, IATA	UN1993
UN proper shipping name DOT IMDG, IATA	Flammable liquids, n.o.s. (HEXANE, Toluene) FLAMMABLE LIQUID, N.O.S. (HEXANE, TOLUENE)
Transport hazard class(es)	
DOT, IMDG, IATA	
Class Label	3 Flammable liquids
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	33
EMS Number:	<u>F-E,S-E</u>
Stowage Category	В
Transport in bulk according to Annex	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (HEXANE,

TOLUENE), 3, II



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### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
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· Sara	
· Section 3	55 (extremely hazardous substances):
309-00-2	aldrin (ISO)
58-89-9	γ -HCH or γ -BHC
72-20-8	endrin (ISO)
· Section 3	13 (Specific toxic chemical listings):
108-88-3	toluene
309-00-2	aldrin (ISO)
319-84-6	alpha-BHC (alpha-HCH)
	γ -HCH or γ -BHC
76-44-8	heptachlor (ISO)
72-43-5	methoxychlor
· TSCA (T	oxic Substances Control Act):
108-88-3	toluene
319-84-6	alpha-BHC (alpha-HCH)
319-85-7	(1alpha,2ß,3alpha,4ß,5alpha,6ß)-1,2,3,4,5,6-hexachlorocyclohexane
319-86-8	delta-BHC (delta-HCH)
58-89-9	γ -HCH or γ -BHC
50-29-3	DDT (common name not adopted by ISO)

#### · TSCA new (21st Century Act): (Substances not listed)

72-55-9 2,2-bis(p-chlorophenyl)-1,1-dichloroethylene 50-29-3 DDT (common name not adopted by ISO)

HEXANE

· Proposition 65

· Propositio	Proposition 65				
· Chemicals	· Chemicals known to cause cancer:				
309-00-2	aldrin (ISO)				
319-84-6	alpha-BHC (alpha-HCH)				
319-85-7	(1alpha,2ß,3alpha,4ß,5alpha,6ß)-1,2,3,4,5,6-hexachlorocyclohexane				
319-86-8	delta-BHC (delta-HCH)				
58-89-9	γ-HCH or γ-BHC				
72-54-8	TDE				
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene				
50-29-3	DDT (common name not adopted by ISO)				
60-57-1	dieldrin (ISO)				
76-44-8	heptachlor (ISO)				
1024-57-3	heptachlor epoxide - isomer B				
· Chemicals	known to cause reproductive toxicity for females:				
50-29-3 D	DT (common name not adopted by ISO)				
·Chemicals	· Chemicals known to cause reproductive toxicity for males:				

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	s known to cause developmental toxicity:	
108-88-3		
	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	
	DDT (common name not adopted by ISO)	
	endrin (ISO)	
76-44-8	heptachlor (ISO)	
Carcinogo	enic categories	
EPA (Env	rironmental Protection Agency)	
108-88-3	toluene	II
	aldrin (ISO)	В
319-84-6	alpha-BHC (alpha-HCH)	В
319-85-7	(1alpha,2ß,3alpha,4ß,5alpha,6ß)-1,2,3,4,5,6-hexachlorocyclohexane	C
319-86-8	delta-BHC (delta-HCH)	Г
72-54-8	TDE	В
72-55-9	2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	E
50-29-3	DDT (common name not adopted by ISO)	В
60-57-1	dieldrin (ISO)	Е
72-20-8	endrin (ISO)	Γ
76-44-8	heptachlor (ISO)	Е
1024-57-3	heptachlor epoxide - isomer B	В
72-43-5	methoxychlor	Γ
TLV (Thr	eshold Limit Value established by ACGIH)	
108-88-3	toluene	A4
309-00-2	aldrin (ISO)	A3
58-89-9	γ-HCH or γ-BHC	A3
50-29-3	DDT (common name not adopted by ISO)	A3
60-57-1	dieldrin (ISO)	(A4
	endrin (ISO)	A4
76-44-8	heptachlor (ISO)	A3
	heptachlor epoxide - isomer B	A3
	methoxychlor	A4
NIOSH-C	Ca (National Institute for Occupational Safety and Health)	
	aldrin (ISO)	
50.20.2	DDT (common name not adopted by ISO)	
30-29-3	dieldrin (ISO)	
60-57-1	heptachlor (ISO)	
60-57-1 76-44-8	heptachlor (ISO) heptachlor epoxide - isomer B	



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#### 16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

· Date of preparation / last revision 04/01/2019 / 1

#### · 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)

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

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids - Category 2

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

\* Data compared to the previous version altered.

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