

Safety Data Sheet
acc. to OSHA HCS

Printing date 03/29/2019

Version Number 2

Reviewed on 03/29/2019

1 Identification

- **Product identifier**
- **Trade name:** VOC Standard (1X1 mL)
- **Part number:** DWM-645-1
- **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.



GHS06 Skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 Health hazard

STOT SE 1 H370 Causes damage to organs.

- **Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02



GHS06



GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

methanol

- **Hazard statements**

Highly flammable liquid and vapor.

Toxic if inhaled.

Causes damage to organs.

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· Precautionary statements

- 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.
- 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 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: Call a POISON CENTER or doctor/physician.
- Specific treatment (see on this label).
- 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)

· HMIS-ratings (scale 0 - 4)

· Other hazards
· Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

- **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

67-56-1	methanol	99.342%
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4 First-aid measures

· Description of first aid measures
· General information:

- Immediately remove any clothing soiled by the product.

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Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· **After inhalation:**

Supply fresh air or oxygen; call for doctor.

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. Then 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.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **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.

See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

67-56-1	methanol	530 ppm
71-43-2	benzene	52 ppm
108-86-1	bromobenzene	0.96 ppm
74-97-5	bromochloromethane	600 ppm
75-25-2	bromoform	1.5 ppm
135-98-8	2-Phenylbutane	1.2 ppm
56-23-5	carbon tetrachloride	1.2 ppm
75-00-3	chloroethane	300 ppm

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106-43-4	4-chlorotoluene	1.2 ppm
74-95-3	dibromomethane	3 ppm
95-50-1	1,2-dichlorobenzene	50 ppm
106-46-7	1,4-dichlorobenzene	30 ppm
75-35-4	1,1-dichloroethylene	45 ppm
156-60-5	trans-dichloroethylene	280 ppm
75-71-8	dichlorodifluoromethane	3,000 ppm
594-20-7	2,2-dichloropropane	2.6 ppm
98-82-8	cumene	50 ppm
127-18-4	tetrachloroethylene	35 ppm
630-20-6	1,1,1,2-Tetrachloroethane	0.2 ppm
108-88-3	toluene	67 ppm
87-61-6	1,2,3-trichlorobenzene	15 mg/m ³
120-82-1	1,2,4-trichlorobenzene	0.45 ppm
79-01-6	trichloroethylene	130 ppm
75-01-4	vinyl chloride	250 ppm
100-41-4	ethylbenzene	33 ppm
106-93-4	1,2-dibromoethane	17 ppm

PAC-2:

67-56-1	methanol	2,100 ppm
71-43-2	benzene	800 ppm
108-86-1	bromobenzene	11 ppm
74-97-5	bromochloromethane	830 ppm
75-25-2	bromoform	6.8 ppm
135-98-8	2-Phenylbutane	13 ppm
56-23-5	carbon tetrachloride	13 ppm
75-00-3	chloroethane	5100* ppm
106-43-4	4-chlorotoluene	13 ppm
74-95-3	dibromomethane	33 ppm
95-50-1	1,2-dichlorobenzene	170 ppm
106-46-7	1,4-dichlorobenzene	170 ppm
75-35-4	1,1-dichloroethylene	500 ppm
156-60-5	trans-dichloroethylene	1,000 ppm
75-71-8	dichlorodifluoromethane	10,000 ppm
594-20-7	2,2-dichloropropane	29 ppm
98-82-8	cumene	300 ppm
127-18-4	tetrachloroethylene	230 ppm
630-20-6	1,1,1,2-Tetrachloroethane	2.2 ppm
108-88-3	toluene	560 ppm
87-61-6	1,2,3-trichlorobenzene	60 mg/m ³
120-82-1	1,2,4-trichlorobenzene	5 ppm

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79-01-6	trichloroethylene	450 ppm
75-01-4	vinyl chloride	1,200 ppm
100-41-4	ethylbenzene	1100* ppm
106-93-4	1,2-dibromoethane	24 ppm
· PAC-3:		
67-56-1	methanol	7200* ppm
71-43-2	benzene	4000* ppm
108-86-1	bromobenzene	240 ppm
74-97-5	bromochloromethane	5,000 ppm
75-25-2	bromoform	41 ppm
135-98-8	2-Phenylbutane	81 ppm
56-23-5	carbon tetrachloride	340 ppm
75-00-3	chloroethane	20000** ppm
106-43-4	4-chlorotoluene	80 ppm
74-95-3	dibromomethane	200 ppm
95-50-1	1,2-dichlorobenzene	1,000 ppm
106-46-7	1,4-dichlorobenzene	1,000 ppm
75-35-4	1,1-dichloroethylene	1,000 ppm
156-60-5	trans-dichloroethylene	1,700 ppm
75-71-8	dichlorodifluoromethane	50,000 ppm
594-20-7	2,2-dichloropropane	170 ppm
98-82-8	cumene	730 ppm
127-18-4	tetrachloroethylene	1,200 ppm
630-20-6	1,1,1,2-Tetrachloroethane	13 ppm
108-88-3	toluene	3700* ppm
87-61-6	1,2,3-trichlorobenzene	360 mg/m ³
120-82-1	1,2,4-trichlorobenzene	20 ppm
79-01-6	trichloroethylene	3,800 ppm
75-01-4	vinyl chloride	4800* ppm
100-41-4	ethylbenzene	1800* ppm
106-93-4	1,2-dibromoethane	46 ppm

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.

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- **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**

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

67-56-1 methanol

PEL	Long-term value: 260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV	Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm Skin; BEI

 · **Ingredients with biological limit values:**

67-56-1 methanol

BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
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- **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.

 · **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.

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- **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

- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

- Form:** Fluid

- Color:** Colorless

- **Odor:** Alcohol-like

- **Odor threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

- Melting point/Melting range:** -98 °C (-144.4 °F)

- Boiling point/Boiling range:** 64.7 °C (148.5 °F)

- **Flash point:** 9 °C (48.2 °F)

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:** 455 °C (851 °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:** 5.5 Vol %

- Upper:** 44 Vol %

- **Vapor pressure at 20 °C (68 °F):** 100 hPa (75 mm Hg)

- **Density at 20 °C (68 °F):** 0.80351 g/cm³ (6.70529 lbs/gal)

- **Relative density** Not determined.

- **Vapor density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with**

- Water:** Not miscible or difficult to mix.

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

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· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	99.7 %
VOC content:	99.67 %
	800.9 g/l / 6.68 lb/gal
Solids content:	0.1 %
· 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:**

LD/LC50 values that are relevant for classification:
ATE (Acute Toxicity Estimate)

Inhalative	LC50/4 h	3.02 mg/L
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67-56-1 methanol

Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **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:
Toxic

- **Carcinogenic categories**

IARC (International Agency for Research on Cancer)

71-43-2	benzene	1
75-25-2	bromoform	3
56-23-5	carbon tetrachloride	2B
75-00-3	chloroethane	3

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95-50-1	1,2-dichlorobenzene	3
106-46-7	1,4-dichlorobenzene	2B
75-35-4	1,1-dichloroethylene	3
98-82-8	cumene	2B
127-18-4	tetrachloroethylene	2A
630-20-6	1,1,1,2-Tetrachloroethane	2B
108-88-3	toluene	3
79-01-6	trichloroethylene	1
75-01-4	vinyl chloride	1
95-47-6	o-xylene	3
100-41-4	ethylbenzene	2B
106-93-4	1,2-dibromoethane	2A

· NTP (National Toxicology Program)

71-43-2	benzene	K
56-23-5	carbon tetrachloride	R
106-46-7	1,4-dichlorobenzene	R
98-82-8	cumene	R
127-18-4	tetrachloroethylene	R
79-01-6	trichloroethylene	K
75-01-4	vinyl chloride	K
106-93-4	1,2-dibromoethane	R

· OSHA-Ca (Occupational Safety & Health Administration)

71-43-2	benzene	
75-01-4	vinyl chloride	

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.

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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.

14 Transport information

· Not Regulated, De minimus Quantities	-
· UN-Number · DOT, IMDG, IATA	UN1230
· UN proper shipping name · DOT · IMDG, IATA	Methanol solution METHANOL solution
· Transport hazard class(es) · DOT	
· Class · Label	3 Flammable liquids 3, 6.1
· IMDG	
· Class · Label	3 Flammable liquids 3/6.1
· IATA	
· Class · Label	3 Flammable liquids 3 (6.1)
· Packing group · DOT, IMDG, IATA	II
· Environmental hazards:	Not applicable.
· Special precautions for user · Danger code (Kemler):	Warning: Flammable liquids 336

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· EMS Number: · Stowage Category · Stowage Code	F-E,S-D B SW2 Clear of living quarters.
· 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: 1 L On cargo aircraft only: 60 L
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1230 METHANOL SOLUTION, 3 (6.1), II

15 Regulatory information

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

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

67-56-1	methanol
71-43-2	benzene
75-25-2	bromoform
56-23-5	carbon tetrachloride
75-00-3	chloroethane
74-95-3	dibromomethane
95-50-1	1,2-dichlorobenzene
106-46-7	1,4-dichlorobenzene
75-35-4	1,1-dichloroethylene
75-71-8	dichlorodifluoromethane
98-82-8	cumene
127-18-4	tetrachloroethylene
630-20-6	1,1,1,2-Tetrachloroethane
108-88-3	toluene
120-82-1	1,2,4-trichlorobenzene
79-01-6	trichloroethylene
75-01-4	vinyl chloride
95-47-6	o-xylene
100-41-4	ethylbenzene

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106-93-4	1,2-dibromoethane
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· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65
· Chemicals known to cause cancer:

71-43-2	benzene
75-25-2	bromoform
56-23-5	carbon tetrachloride
75-00-3	chloroethane
106-46-7	1,4-dichlorobenzene
75-35-4	1,1-dichloroethylene
98-82-8	cumene
127-18-4	tetrachloroethylene
630-20-6	1,1,1,2-Tetrachloroethane
79-01-6	trichloroethylene
75-01-4	vinyl chloride
100-41-4	ethylbenzene
106-93-4	1,2-dibromoethane

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

71-43-2	benzene
79-01-6	trichloroethylene
106-93-4	1,2-dibromoethane

· Chemicals known to cause developmental toxicity:

67-56-1	methanol
71-43-2	benzene
108-88-3	toluene
79-01-6	trichloroethylene
106-93-4	1,2-dibromoethane

· Carcinogenic categories
· EPA (Environmental Protection Agency)

71-43-2	benzene	A, K/L
108-86-1	bromobenzene	II
74-97-5	bromochloromethane	D
75-25-2	bromoform	B2
56-23-5	carbon tetrachloride	L
95-50-1	1,2-dichlorobenzene	D
75-35-4	1,1-dichloroethylene	C, S (inh.), I (oral)
156-60-5	trans-dichloroethylene	II
98-82-8	cumene	D, CBD

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127-18-4	tetrachloroethylene	L
630-20-6	1,1,1,2-Tetrachloroethane	C
108-88-3	toluene	II
120-82-1	1,2,4-trichlorobenzene	D
79-01-6	trichloroethylene	CaH
75-01-4	vinyl chloride	A, K/L
95-47-6	o-xylene	I
100-41-4	ethylbenzene	D
106-93-4	1,2-dibromoethane	L

· TLV (Threshold Limit Value established by ACGIH)

71-43-2	benzene	A1
75-25-2	bromoform	A3
56-23-5	carbon tetrachloride	A2
75-00-3	chloroethane	A3
95-50-1	1,2-dichlorobenzene	A4
106-46-7	1,4-dichlorobenzene	A3
75-35-4	1,1-dichloroethylene	A4
75-71-8	dichlorodifluoromethane	A4
127-18-4	tetrachloroethylene	A3
108-88-3	toluene	A4
79-01-6	trichloroethylene	A2
75-01-4	vinyl chloride	A1
95-47-6	o-xylene	A4
100-41-4	ethylbenzene	A3
106-93-4	1,2-dibromoethane	A3

· NIOSH-Ca (National Institute for Occupational Safety and Health)

71-43-2	benzene
56-23-5	carbon tetrachloride
106-46-7	1,4-dichlorobenzene
75-35-4	1,1-dichloroethylene
127-18-4	tetrachloroethylene
79-01-6	trichloroethylene
75-01-4	vinyl chloride
106-93-4	1,2-dibromoethane

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

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 03/29/2019 / 1

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· 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
Acute Tox. 3: Acute toxicity – Category 3
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

· * Data compared to the previous version altered.

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