

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-625-1

· 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

H340 May cause genetic defects. Muta. 1B

Carc. 1A H350 May cause cancer.

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

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

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

methanol benzene

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· Hazard statements

Highly flammable liquid and vapor.

Toxic if inhaled.

May cause genetic defects.

May cause cancer.

Suspected of damaging fertility or the unborn child.

Causes damage to organs.

· 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.

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 or concerned: Get medical advice/attention.

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)



Health = 1Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *1Fire = 3

- · Other hazards
- · Results of PBT and vPvB assessment

87-61-6	· PBT:	
	87-61-6	

1,2,3-trichlorobenzene

120-82-1 1,2,4-trichlorobenzene

· 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.

· Dangerous components:		
67-56-1	methanol	96.714%
71-43-2	benzene	0.253%
91-20-3	naphthalene	0.253%
100-42-5	· ·	0.253%
108-88-3		0.253%
	1,2,3-trichlorobenzene	0.253%
	1,2,4-trichlorobenzene	0.253%
100-41-4	ethylbenzene	0.253%

4 First-aid measures

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

Immediately remove any clothing soiled by the product.

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.

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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:		
	methanol	530 ppm
71-43-2		52 ppm
108-86-1	bromobenzene	0.96 ppm
91-20-3	naphthalene	15 ppm
100-42-5	styrene	20 ppm
108-88-3	toluene	67 ppm
	1,2,3-trichlorobenzene	15 mg/m ³
120-82-1	1,2,4-trichlorobenzene	0.45 ppm
	1,2,4-trimethylbenzene	140 ppm
	mesitylene	140 ppm
	m-xylene	130 ppm
100-41-4	ethylbenzene	33 ppm
	p-cymene p-cymene	120 mg/m ³
104-51-8	butylbenzene	3.6 ppm
· PAC-2:		
67-56-1	methanol	2,100 ppm
71-43-2	benzene	800 ppm
108-86-1	bromobenzene	11 ppm
91-20-3	naphthalene	83 ppm
100-42-5	styrene	130 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
95-63-6	1,2,4-trimethylbenzene	360 ppm
108-67-8	mesitylene	360 ppm
108-38-3	m-xylene	920 ppm
100-41-4	ethylbenzene	1100* ppm
99-87-6	p-cymene p-cymene	1,300 mg/m ³
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104-51-8	butylbenzene	40 ppm
· PAC-3:		
67-56-1	methanol	7200* ppm
71-43-2	benzene	4000* ppm
108-86-1	bromobenzene	240 ppm
91-20-3	naphthalene	500 ppm
100-42-5	styrene	1100* 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
95-63-6	1,2,4-trimethylbenzene	480 ppm
108-67-8	mesitylene	480 ppm
108-38-3	m-xylene	2500* ppm
100-41-4	ethylbenzene	1800* ppm
99-87-6	p-cymene p-cymene	1,900 mg/m ³
104-51-8	butylbenzene	240 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.

- · 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.

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(Contd. of page 5) · Control parameters · Components with limit values that require monitoring at the workplace: 67-56-1 methanol PEL Long-term value: 260 mg/m³, 200 ppm REL Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin TLV Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Skin; BEI 71-43-2 benzene PEL Short-term value: 15* mg/m³, 5* ppm Long-term value: 3* mg/m³, 1* ppm *table Z-2 for exclusions in 29CFR1910.1028(d) REL Short-term value: 1 ppm Long-term value: 0.1 ppm See Pocket Guide App. A TLV Short-term value: 8 mg/m³, 2.5 ppm Long-term value: 1.6 mg/m³, 0.5 ppm Skin: BEI 91-20-3 naphthalene PEL Long-term value: 50 mg/m³, 10 ppm REL Short-term value: 75 mg/m³, 15 ppm Long-term value: 50 mg/m³, 10 ppm TLV Long-term value: 52 mg/m³, 10 ppm Skin; BEI 100-42-5 styrene PEL Long-term value: 100 ppm Ceiling limit value: 200; 600* ppm *5-min peak in any 3 hrs REL Short-term value: 425 mg/m³, 100 ppm Long-term value: 215 mg/m³, 50 ppm TLV Short-term value: (170) mg/m³, (40) ppm Long-term value: (85) NIC-8.5 mg/m³, (20) NIC-2 ppm BEI, NIC-A3, NIC-OTO 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/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm TLV Long-term value: 75 mg/m³, 20 ppm BEI 120-82-1 1.2.4-trichlorobenzene REL Ceiling limit value: 40 mg/m³, 5 ppm



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	Ceiling limit value: 37 mg/m³, 5 ppm
	1-4 ethylbenzene
	Long-term value: 435 mg/m³, 100 ppm
REL	Short-term value: 545 mg/m³, 125 ppm
	Long-term value: 435 mg/m ³ , 100 ppm
TLV	Long-term value: 87 mg/m³, 20 ppm
	BEI
_	dients with biological limit values:
	-1 methanol
	15 mg/L
	Medium: urine
	Time: end of shift
	Parameter: Methanol (background, nonspecific)
	3-2 benzene
	25 μg/g creatinine
	Medium: urine
	Time: end of shift Parameter
	Parameter: S-Phenylmercapturic acid (background
	500 μg/g creatinine
	Medium: urine
,	Time: end of shift
	Parameter: t,t-Muconic acid (background)
100-4	2-5 styrene
	400 mg/g creatinine
	Medium: urine
	Time: end of shift
	Parameter: Mandelic acid plus phenylglyoxylic acid (nonspecific)
	$0.2~\mathrm{mg/L}$
	Medium: venous blood
	Time: end of shift
	Parameter: Styrene (semi-quantitative)
108-8	88-3 toluene
BEI	0.02 mg/L
	Medium: blood
	Time: prior to last shift of workweek
-	Parameter: Toluene
	$0.03~\mathrm{mg/L}$
	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)



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100-41-4 ethylbenzene

BEI 0.7 g/g creatinine

Medium: urine

Time: end of shift at end of workweek

Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)

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Medium: end-exhaled air Time: not critical

Parameter: Ethyl benzene (semi-quantitative)

- 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.

· 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

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· Odor:	Alcohol-like
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition Melting point/Melting range: Boiling point/Boiling range:	-98 °C (-144.4 °F) 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 %
Lower: Upper:	3.5 Vol % 44 Vol %
· Vapor pressure at 20 °C (68 °F):	100 hPa (75 mm Hg)
Density at 20 °C (68 °F):	0.80817 g/cm³ (6.74418 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/wate	er): Not determined.
· Viscosity:	,
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	99.2 %
VOC content:	99.24 % 802.0 g/l / 6.69 lb/gal
Solids content:	0.5 %
· 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.

		cological effects
· Acute tox	•	
		t are relevant for classification:
`		y Estimate)
Dermal	LD50	18,987 mg/kg (mouse)
Inhalative	LC50/4 h	3.1 mg/L
67-56-1 m	ethanol	
Oral	LD50	5,628 mg/kg (rat)
Dermal	LD50	15,800 mg/kg (rabbit)
71-43-2 b	enzene	
Oral	LD50	3,340 mg/kg (rat)
Dermal	LD50	48 mg/kg (mouse)
		>8,260 mg/kg (rabbit)
Inhalative	LC50/4 h	9,980 mg/L (mouse)
91-20-3 na	aphthalen	e
Oral	LD50	490 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rat)
		20,000 mg/kg (rabbit)
100-42-5	styrene	
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	11.8 mg/L (rat)
108-88-3 (toluene	
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)
87-61-6 1,		probenzene
Oral	LD50	1,830 mg/kg (rat)
120-82-1		lorobenzene
Oral	LD50	756 mg/kg (rat)
Dermal	LD50	6,139 mg/kg (rat)
	ethylbenze	
Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	15,354 mg/kg (rabbit)

- Primary irritant effect:
- · on the skin: No irritant effect.

Inhalative LC50/4 h 17.2 mg/L (rat)

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- 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

The product can cause inheritable damage.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)			
71-43-2	benzene	1	
91-20-3	naphthalene	2B	
100-42-5	styrene	2B	
108-88-3	toluene	3	
108-38-3	m-xylene	3	
100-41-4	ethylbenzene	2B	
· NTP (Nat	NTP (National Toxicology Program)		
71-43-2	benzene	K	
91-20-3	naphthalene	R	
100-42-5	styrene	R	
· OSHA-Ca (Occupational Safety & Health Administration)			
71-43-2 b	penzene		

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 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

· Results of PBT and vPvB assessment

· PBT:	
87-61-6	1,2,3-trichlorobenzene
120-82-1	1,2,4-trichlorobenzene

- · **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 Methanol solutionIMDG, IATA METHANOL solution
- · Transport hazard class(es)
- · DOT



- Class 3 Flammable liquids • Label 3, 6.1
- · IMDG



- · Class· Label3 Flammable liquids3/6.1
- \cdot IATA



- · Class 3 Flammable liquids · Label 3 (6.1)
- Packing group
- · DOT, IMDG, IATA
- Environmental hazards: Not applicable.
- Special precautions for user Warning: Flammable liquids

· Danger code (Kemler): 336

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· EMS Number: F-E,S-D · Stowage Category B

· Stowage Code SW2 Clear of living quarters.

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

 \cdot DOT

• Quantity limitations On passenger aircraft/rail: 1 L

On cargo aircraft only: 60 L

· IMDG

Limited quantities (LQ)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 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	nazardous substances):
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None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

67-56-1 methanol

71-43-2 benzene

91-20-3 naphthalene

100-42-5 styrene

108-88-3 toluene

120-82-1 1,2,4-trichlorobenzene

95-63-6 1,2,4-trimethylbenzene

108-38-3 m-xylene

100-41-4 ethylbenzene

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

71-43-2 benzene

91-20-3 naphthalene

100-42-5 styrene

100-41-4 ethylbenzene

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

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· Chemicals known to cause reproductive toxicity for males:

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71-43-	71-43-2 benzene				
· Chem	· Chemicals known to cause developmental toxicity:				
67-56	-1 methanol				
71-43	-2 benzene				
108-88	-3 toluene				
	· Carcinogenic categories				
`	· EPA (Environmental Protection Agency)				
71-43	-2 benzene	A, K/L			
108-86	-1 bromobenzene	II			

	bromobenzene	II
	<u> </u>	C, CBD
108-88-3		II
120-82-1	1,2,4-trichlorobenzene	D
	1,2,4-trimethylbenzene	II
	mesitylene	II
	m-xylene	I
100-41-4	ethylbenzene	D

100 11 1	out y to the out	_		
· TLV (Threshold Limit Value established by ACGIH)				
	benzene	A1		
	naphthalene	A4		
100-42-5		A4		
108-88-3		A4		
	m-xylene	A4		
100-41-4	ethylbenzene	A3		

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

71-43-2 benzene

- · National regulations:
- · Additional classification according to Decree on Hazardous Materials:

Carcinogenic hazardous material group III (dangerous).

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· 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
- · 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

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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 Muta. 1B: Germ cell mutagenicity – Category 1B Carc. 1A: Carcinogenicity – Category 1A

Repr. 2: Reproductive toxicity – Category 2

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

* * Data compared to the previous version altered.

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