

Revision date: 08/26/2025

1 Identification

· Product identifier

· Product Name: QualityCheck WS Unregulated VOCs Sample (1X2 mL)

• **Part no. : QCM-116**

· 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

Flammable Liquids 2

H225 Highly flammable liquid and vapor.



GHS06 Skull and crossbones

Acute Toxicity - Inhalation 3

H331 Toxic if inhaled.



GHS08 Health hazard

Specific Target Organ Toxicity - Single Exposure 1 H370 Causes damage to the central nervous system and the visual 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

H225 Highly flammable liquid and vapor.

H331 Toxic if inhaled.

H370 Causes damage to the central nervous system and the visual organs.

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· Precautionary st	atements
--------------------	----------

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P260 Do not breathe vapours.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

Wear protective gloves / protective clothing. P280 Ground/bond container and receiving equipment. P240

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

Wash thoroughly after handling. P264

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.

Specific treatment (see on this label). P321

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P370+P378 In case of fire: Use CO2, powder or water spray to extinguish. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Dispose of contents/container in accordance with local/regional/national/international P501

regulations.

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 1Fire = 3Reactivity = 0

· 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 99.47%



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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.

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 section 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
74-83-9	bromomethane	19 ppm
74-87-3	chloromethane	150 ppm
		Contd. on page 4)



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74-97-5	bromochloromethane	(Contd. of page 600 ppm	
75-00-3	chloroethane	300 ppm	
	trichlorofluoromethane	91 ppm	
75-71-8	dichlorodifluoromethane	3,000 pp	
87-61-6	1,2,3-trichlorobenzene	15 mg/m	
87-68-3	hexachlorobuta-1,3-diene	1.0 ppm	
74-95-3	dibromomethane	3 ppm	
75-34-3	1,1-dichloroethane	300 ppm	
79-34-5	1,1,2,2-tetrachloroethane	3 ppm	
95-49-8	2-chlorotoluene	75 ppm	
95-63-6	1,2,4-trimethylbenzene	140 ppm	
96-18-4	1,2,3-trichloropropane	0.015 pg	
98-06-6	tert-butylbenzene	7.5 mg/r	
98-82-8	cumene	50 ppm	
99-87-6	p-cymene	120 mg/s	
103-65-1	propylbenzene	3.7 ppm	
104-51-8	butylbenzene	3.6 ppm	
106-43-4	4-chlorotoluene	1.2 ppm	
108-67-8	mesitylene	140 ppm	
108-86-1	bromobenzene	0.96 ppr	
135-98-8	2-Phenylbutane	1.2 ppm	
142-28-9	1,3-dichloropropane	5.4 ppm	
541-73-1	1,3-dichlorobenzene	6 ppm	
563-58-6	1,1-dichloropropene	10 mg/n	
594-20-7	2,2-dichloropropane	2.6 ppm	
630-20-6	1,1,1,2-tetrachloroethane	0.2 ppm	
· PAC-2:		<u> </u>	
67-56-1	methanol	2100 ppm	
74-83-9	bromomethane	210 ppm	
74-87-3	chloromethane	910 ppm	
74-97-5	bromochloromethane	830 ppm	
	chloroethane	5100* ppr	
75-69-4	trichlorofluoromethane	1,000 ppm	
75-71-8	dichlorodifluoromethane	10,000 pp	
87-61-6	1,2,3-trichlorobenzene	60 mg/m^3	
87-68-3	hexachlorobuta-1,3-diene	3.0 ppm	
	dibromomethane	230 mg/m	
75-34-3	1,1-dichloroethane	670 ppm	
79-34-5	1,1,2,2-tetrachloroethane	120 ppm	
95-49-8	2-chlorotoluene	310 ppm	
95-63-6	1,2,4-trimethylbenzene	360 ppm	



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		(Contd. of page 4
	1,2,3-trichloropropane	170 ppm
	tert-butylbenzene	83 mg/m3
	cumene	300 ppm
	p-cymene	1,300 mg/m ³
	propylbenzene	41 ppm
	butylbenzene	370 mg/m3
106-43-4	4-chlorotoluene	13 ppm
108-67-8	mesitylene	360 ppm
108-86-1	bromobenzene	79 mg/m3
135-98-8	2-Phenylbutane	64 mg/m3
142-28-9	1,3-dichloropropane	270 mg/m3
541-73-1	1,3-dichlorobenzene	66 ppm
563-58-6	1,1-dichloropropene	66 mg/m3
594-20-7	2,2-dichloropropane	29 ppm
630-20-6	1,1,1,2-tetrachloroethane	16 ppm
· PAC-3:		
67-56-1	methanol	7200 ppm
74-83-9	bromomethane	740 ppm
74-87-3	chloromethane	3000 ppm
74-97-5	bromochloromethane	5,000 ppm
75-00-3	chloroethane	20000** ppm
75-69-4	trichlorofluoromethane	10,000 ppm
75-71-8	dichlorodifluoromethane	50,000 ppm
87-61-6	1,2,3-trichlorobenzene	360 mg/m ³
87-68-3	hexachlorobuta-1,3-diene	10 ppm
74-95-3	dibromomethane	1400 mg/m3
75-34-3	1,1-dichloroethane	4,000 ppm
79-34-5	1,1,2,2-tetrachloroethane	150 ppm
95-49-8	2-chlorotoluene	1,800 ppm
95-63-6	1,2,4-trimethylbenzene	470 ppm
96-18-4	1,2,3-trichloropropane	1,000 ppm
98-06-6	tert-butylbenzene	500 mg/m3
98-82-8	cumene	730 ppm
99-87-6	p-cymene	1,900 mg/m ³
	propylbenzene	240 ppm
104-51-8	butylbenzene	2,200 mg/m3
106-43-4	4-chlorotoluene	80 ppm
108-67-8	mesitylene	470 ppm
108-86-1	bromobenzene	470 mg/m3
135-98-8	2-Phenylbutane	380 mg/m3
1/2 28 0	1,3-dichloropropane	1600 mg/m3



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		(Contd. of page 5)
541-73-1	1,3-dichlorobenzene	400 ppm
563-58-6	1,1-dichloropropene	400 mg/m3
594-20-7	2,2-dichloropropane	170 ppm
630-20-6	1,1,1,2-tetrachloroethane	93 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 section 7.
- · Control parameters

· Components with	limit values that	t require mor	iitoring at the	workplace:
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67-56-1 methanol

PEL	Long-term value: 260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m³, 250 ppm
	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

· Ingredients with biological limit values:

67-56-1 methanol

BEI 15 mg/L

Medium: urine Time: end of shift

Parameter: Methanol (background, nonspecific)

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

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- · 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.

Do not inhale gases / fumes / aerosols.

· 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:

Fluid Form: Colorless Color: Alcohol-like · Odor: · Odor threshold: Not determined. Not determined. · pH-value:

· Change in condition

-98 °C (-144.4 °F) Melting point/Melting range: 64.7 °C (148.5 °F) **Boiling point/Boiling range:**

· Flash point: 9 °C (48.2 °F)

Highly flammable. · Flammability:

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	(Contd. of page
· Auto igniting:	455 °C (851 °F)
· Decomposition temperature:	Not determined.
· Ignition temperature:	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):	0.80283 g/cm³ (6.69962 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:	99.6 %
VOC content:	99.62 %
	799.7 g/l / 6.67 lb/gal
Solids content:	0.0 %
· 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 (I	· IARC (International Agency for Research on Cancer)		
74-83-9	bromomethane	3	
74-87-3	chloromethane	3	
75-00-3	chloroethane	3	
87-68-3	hexachlorobuta-1,3-diene	3	
79-34-5	1,1,2,2-tetrachloroethane	2B	
96-18-4	1,2,3-trichloropropane	2A	
98-82-8	cumene	2B	
541-73-1	1,3-dichlorobenzene	3	
630-20-6	630-20-6 1,1,1,2-tetrachloroethane 2E		
· NTP (Na	NTP (National Toxicology Program)		
96-18-4	1,2,3-trichloropropane	R	
98-82-8	98-82-8 cumene R		
	· OSHA-Ca (Occupational Safety & Health Administration)		
None of t	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 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 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	
· UN-Number · DOT, IMDG, IATA	UN1230
· UN proper shipping name · DOT · IMDG, IATA	Methanol solution METHANOL solution
· Transport hazard class(es)	
·DOT	
RAMMER COOK	
· Class · Label	3 Flammable liquids 3, 6.1
·IMDG	
· Class	3 Flammable liquids
· Label	3/6.1
·IATA	
· Class	3 Flammable liquids
· Label	3 (6.1)
· Packing group · DOT, IMDG, IATA	II
· Environmental hazards:	Not applicable.
 Special precautions for user Hazard identification number (Kemler cod EMS Number: Stowage Category 	Warning: Flammable liquids le): 336 F-E,S-D B



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	(Contd. of page 10)
· 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:	
· 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 No further relevant information available.
- ·Sara

	(extremely hazardous substances):
74-83-9 bro	
75-34-3 1,1	-dichloroethane
· Section 313	(Specific toxic chemical listings):
67-56-1	methanol
74-83-9	bromomethane
74-87-3	chloromethane
75-00-3	chloroethane
75-69-4	trichlorofluoromethane
75-71-8	dichlorodifluoromethane
87-61-6	1,2,3-trichlorobenzene
87-68-3	hexachlorobuta-1,3-diene
74-95-3	dibromomethane
75-34-3	1,1-dichloroethane
	1,1,2,2-tetrachloroethane
	1,2,4-trimethylbenzene
96-18-4	1,2,3-trichloropropane
98-82-8	cumene
	1,3-dichlorobenzene
630-20-6	1,1,1,2-tetrachloroethane
10061-02-6	trans-1,3-dichloropropene
	(Contd. on page

US



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		(Contd. of pag
,	ic Substances Control Act):	,
	methanol	ACTI
	bromomethane	ACTI
	chloromethane	ACTI
	bromochloromethane	ACTI
	chloroethane	ACTI
	trichlorofluoromethane	ACTI
	dichlorodifluoromethane	ACTI
	1,2,3-trichlorobenzene	ACTI
	hexachlorobuta-1,3-diene	ACTI
	dibromomethane	ACTI
	1,1-dichloroethane	ACTI
	1,1,2,2-tetrachloroethane	ACTIV
95-49-8	2-chlorotoluene	ACTI
	1,2,4-trimethylbenzene	ACTI
	1,2,3-trichloropropane	ACTI
98-06-6	tert-butylbenzene	ACTI
98-82-8	cumene	ACTI
99-87-6	p-cymene	ACTI
103-65-1	propylbenzene	ACTIV
104-51-8	butylbenzene	ACTI
106-43-4	4-chlorotoluene	ACTI
108-67-8	mesitylene	ACTI
	bromobenzene	ACTI
135-98-8	2-Phenylbutane	ACTIV
142-28-9	1,3-dichloropropane	ACTIV
541-73-1	1,3-dichlorobenzene	ACTI
594-20-7	2,2-dichloropropane	ACTI
630-20-6	1,1,1,2-tetrachloroethane	ACTI
10061-02-6	trans-1,3-dichloropropene	ACTIV
Hazardous	Air Pollutants	1
67-56-1 me		
	omomethane	
	oromethane	
75-00-3 chl		
87-68-3 he:	xachlorobuta-1,3-diene	
	-dichloroethane	
	,2,2-tetrachloroethane	
*	mene	



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(Contd. of page 12) · Proposition 65 · Chemicals known to cause cancer: 75-00-3 chloroethane 87-68-3 hexachlorobuta-1,3-diene 75-34-3 1,1-dichloroethane 79-34-5 1,1,2,2-tetrachloroethane 96-18-4 1,2,3-trichloropropane 98-82-8 cumene 630-20-6 1,1,1,2-tetrachloroethane · Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for males: 74-87-3 chloromethane · Chemicals known to cause developmental toxicity: 67-56-1 methanol 74-83-9 bromomethane 74-87-3 chloromethane · Carcinogenic categories · EPA (Environmental Protection Agency) 74-83-9 bromomethane D 74-87-3 chloromethane D, CBD 74-97-5 bromochloromethane D 87-68-3 hexachlorobuta-1,3-diene C 75-34-3 1.1-dichloroethane C 79-34-5 1,1,2,2-tetrachloroethane L 95-63-6 1,2,4-trimethylbenzene II 96-18-4 1,2,3-trichloropropane L 98-82-8 cumene D, CBD 108-67-8 mesitylene II 108-86-1 bromobenzene II 541-73-1 1,3-dichlorobenzene D 630-20-6 1,1,1,2-tetrachloroethane С · TLV (Threshold Limit Value) 74-83-9 bromomethane A4 74-87-3 chloromethane A4 75-00-3 chloroethane Α3 75-69-4 trichlorofluoromethane A4 75-71-8 dichlorodifluoromethane A4 87-68-3 hexachlorobuta-1,3-diene Α3 75-34-3 1,1-dichloroethane A4 79-34-5 1,1,2,2-tetrachloroethane A3

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0.5.10.1	(Contd. of	1 0
96-18-4	1,2,3-trichloropropane	A3
	I-Ca (National Institute for Occupational Safety and Health)	
	bromomethane	
74-87-3	chloromethane	
87-68-3	hexachlorobuta-1,3-diene	
79-34-5	1,1,2,2-tetrachloroethane	
96-18-4	1,2,3-trichloropropane	
· Chemic	cal 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.

- · Department issuing SDS: Document Control / Regulatory
- · Contact: pdl-acg-regulatory-cq@agilent.com
- · Date of preparation / last revision 08/26/2025 / 4
- Abbreviations and acronyms:

ADR: Accord relatif au transport international 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

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

Flammable Liquids 2: Flammable liquids – Category 2

Acute Toxicity - Inhalation 3: Acute toxicity - Category 3

Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) - Category 1

* Data compared to the previous version altered.